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ANALYTICAL REPORT

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Laboratory Job ID: 570-100086-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000
Revision: 1

For:
Roux Associates, Inc.
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Attn: Matthew Nelson

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Authorized for release by:
7/6/2022 10:04:31 AM

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-100086-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-100086-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-100086-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-100086-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 6/30/2022. The report (revision 1) is being revised due to: Per the clients request sample ID for sample #9 was upated, see COC section of the report for details..

Receipt
The samples were received on 6/17/2022 11:46 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7° C.

GC Semi VOA
Method 8082: The following sample required a dilution due to the nature of the sample matrix: Unit-2-SST_SO-W-SW-5A (570-100086-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

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

Organic Prep
Method 3540C: Due to the matrix, the following samples could not be concentrated to the final method required volume: Unit-2-LT-5B (570-100086-2) and Unit-2-LT-5C (570-100086-3). The reporting limits (RLs) are elevated proportionately. The final volume was changed from 10mL to 20ml.
8082

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-100086-1

Client Sample ID: Unit-2-LT-5A — Lab Sample ID: 570-100086-1

No Detections.

Client Sample ID: Unit-2-LT-5B — Lab Sample ID: 570-100086-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	530		100		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-5C — Lab Sample ID: 570-100086-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	1100		99		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-5F — Lab Sample ID: 570-100086-4

No Detections.

Client Sample ID: Unit-2-LT-5G — Lab Sample ID: 570-100086-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	250		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST_SO-W-W-5B — Lab Sample ID: 570-100086-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	530		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST_SO-W-SW-5A — Lab Sample ID: 570-100086-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	93000		25000		ug/Kg	500	☼	8082	Total/NA

Client Sample ID: Unit-2-SST_SO-W-SW-5B — Lab Sample ID: 570-100086-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	68000		5100		ug/Kg	100	☼	8082	Total/NA

Client Sample ID: Unit-2-SST_SO-W-SW-5C — Lab Sample ID: 570-100086-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	36000		5000		ug/Kg	100	☼	8082	Total/NA

Client Sample ID: Unit-2-SST_SO-W-W-5A — Lab Sample ID: 570-100086-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1900		250		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-SST_SO-W-W-5C — Lab Sample ID: 570-100086-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	430		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST_SO-W-W-5D — Lab Sample ID: 570-100086-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	240		50		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: Unit-2-LT-5A **Lab Sample ID: 570-100086-1**
Date Collected: 06/14/22 13:45 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 22:17	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 22:17	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 22:17	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 22:17	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 22:17	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 22:17	1
Aroclor-1260	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 22:17	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 22:17	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*77*		*25 - 126*	*06/17/22 17:54*	*06/21/22 22:17*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*20 - 155*	*06/17/22 17:54*	*06/21/22 22:17*	*1*

Client Sample ID: Unit-2-LT-5B **Lab Sample ID: 570-100086-2**
Date Collected: 06/14/22 13:55 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	06/17/22 17:54	06/21/22 22:36	1
Aroclor-1221	ND		100		ug/Kg	☼	06/17/22 17:54	06/21/22 22:36	1
Aroclor-1232	ND		100		ug/Kg	☼	06/17/22 17:54	06/21/22 22:36	1
Aroclor-1242	ND		100		ug/Kg	☼	06/17/22 17:54	06/21/22 22:36	1
Aroclor-1248	ND		100		ug/Kg	☼	06/17/22 17:54	06/21/22 22:36	1
Aroclor-1254	ND		100		ug/Kg	☼	06/17/22 17:54	06/21/22 22:36	1
Aroclor-1260	**530**		100		ug/Kg	☼	06/17/22 17:54	06/21/22 22:36	1
Aroclor-1262	ND		100		ug/Kg	☼	06/17/22 17:54	06/21/22 22:36	1
Aroclor-1268	ND		100		ug/Kg	☼	06/17/22 17:54	06/21/22 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*75*		*25 - 126*	*06/17/22 17:54*	*06/21/22 22:36*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*20 - 155*	*06/17/22 17:54*	*06/21/22 22:36*	*1*

Client Sample ID: Unit-2-LT-5C **Lab Sample ID: 570-100086-3**
Date Collected: 06/14/22 14:00 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		99		ug/Kg	☼	06/17/22 17:54	06/21/22 22:55	1
Aroclor-1221	ND		99		ug/Kg	☼	06/17/22 17:54	06/21/22 22:55	1
Aroclor-1232	ND		99		ug/Kg	☼	06/17/22 17:54	06/21/22 22:55	1
Aroclor-1242	ND		99		ug/Kg	☼	06/17/22 17:54	06/21/22 22:55	1
Aroclor-1248	ND		99		ug/Kg	☼	06/17/22 17:54	06/21/22 22:55	1
Aroclor-1254	ND		99		ug/Kg	☼	06/17/22 17:54	06/21/22 22:55	1
Aroclor-1260	**1100**		99		ug/Kg	☼	06/17/22 17:54	06/21/22 22:55	1
Aroclor-1262	ND		99		ug/Kg	☼	06/17/22 17:54	06/21/22 22:55	1
Aroclor-1268	ND		99		ug/Kg	☼	06/17/22 17:54	06/21/22 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*74*		*25 - 126*	*06/17/22 17:54*	*06/21/22 22:55*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*20 - 155*	*06/17/22 17:54*	*06/21/22 22:55*	*1*

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

Client Sample ID: Unit-2-LT-5F **Lab Sample ID: 570-100086-4**
Date Collected: 06/14/22 14:07 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 23:14	1
Aroclor-1221	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 23:14	1
Aroclor-1232	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 23:14	1
Aroclor-1242	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 23:14	1
Aroclor-1248	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 23:14	1
Aroclor-1254	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 23:14	1
Aroclor-1260	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 23:14	1
Aroclor-1262	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 23:14	1
Aroclor-1268	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*70*		*25 - 126*	*06/17/22 17:54*	*06/21/22 23:14*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*20 - 155*	*06/17/22 17:54*	*06/21/22 23:14*	*1*

Client Sample ID: Unit-2-LT-5G **Lab Sample ID: 570-100086-5**
Date Collected: 06/14/22 14:20 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:33	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:33	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:33	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:33	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:33	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:33	1
Aroclor-1260	**250**		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:33	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:33	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*73*		*25 - 126*	*06/17/22 17:54*	*06/21/22 23:33*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*20 - 155*	*06/17/22 17:54*	*06/21/22 23:33*	*1*

Client Sample ID: Unit-2-SST_SO-W-W-5B **Lab Sample ID: 570-100086-6**
Date Collected: 06/14/22 14:35 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:52	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:52	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:52	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:52	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:52	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:52	1
Aroclor-1260	**530**		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:52	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:52	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 17:54	06/21/22 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*80*		*25 - 126*	*06/17/22 17:54*	*06/21/22 23:52*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*20 - 155*	*06/17/22 17:54*	*06/21/22 23:52*	*1*

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

Client Sample ID: Unit-2-SST_SO-W-SW-5A **Lab Sample ID: 570-100086-7**
Date Collected: 06/14/22 15:22 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 21:58	1
Aroclor-1221	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 21:58	1
Aroclor-1232	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 21:58	1
Aroclor-1242	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 21:58	1
Aroclor-1248	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 21:58	1
Aroclor-1254	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 21:58	1
Aroclor-1262	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 21:58	1
Aroclor-1268	ND		50		ug/Kg	☼	06/17/22 17:54	06/21/22 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*81*		*25 - 126*	*06/17/22 17:54*	*06/21/22 21:58*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*20 - 155*	*06/17/22 17:54*	*06/21/22 21:58*	*1*

Client Sample ID: Unit-2-SST_SO-W-SW-5B **Lab Sample ID: 570-100086-8**
Date Collected: 06/14/22 15:31 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 00:30	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 00:30	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 00:30	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 00:30	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 00:30	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 00:30	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 00:30	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*79*		*25 - 126*	*06/17/22 17:54*	*06/22/22 00:30*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*20 - 155*	*06/17/22 17:54*	*06/22/22 00:30*	*1*

Client Sample ID: Unit-2-SST_SO-W-SW-5C **Lab Sample ID: 570-100086-9**
Date Collected: 06/14/22 15:38 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 00:49	1
Aroclor-1221	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 00:49	1
Aroclor-1232	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 00:49	1
Aroclor-1242	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 00:49	1
Aroclor-1248	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 00:49	1
Aroclor-1254	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 00:49	1
Aroclor-1262	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 00:49	1
Aroclor-1268	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*73*		*25 - 126*	*06/17/22 17:54*	*06/22/22 00:49*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*20 - 155*	*06/17/22 17:54*	*06/22/22 00:49*	*1*

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

Client Sample ID: Unit-2-SST_SO-W-W-5A **Lab Sample ID: 570-100086-10**
Date Collected: 06/14/22 15:58 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:24	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:24	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:24	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:24	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:24	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:24	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:24	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*76*		*25 - 126*	*06/17/22 17:54*	*06/22/22 02:24*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*20 - 155*	*06/17/22 17:54*	*06/22/22 02:24*	*1*

Client Sample ID: Unit-2-SST_SO-W-W-5C **Lab Sample ID: 570-100086-11**
Date Collected: 06/14/22 16:05 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:43	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:43	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:43	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:43	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:43	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:43	1
Aroclor-1260	**430**		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:43	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:43	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 17:54	06/22/22 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*83*		*25 - 126*	*06/17/22 17:54*	*06/22/22 02:43*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*20 - 155*	*06/17/22 17:54*	*06/22/22 02:43*	*1*

Client Sample ID: Unit-2-SST_SO-W-W-5D **Lab Sample ID: 570-100086-12**
Date Collected: 06/14/22 16:10 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:02	1
Aroclor-1221	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:02	1
Aroclor-1232	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:02	1
Aroclor-1242	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:02	1
Aroclor-1248	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:02	1
Aroclor-1254	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:02	1
Aroclor-1260	**240**		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:02	1
Aroclor-1262	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:02	1
Aroclor-1268	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*75*		*25 - 126*	*06/17/22 17:54*	*06/22/22 03:02*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*20 - 155*	*06/17/22 17:54*	*06/22/22 03:02*	*1*

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

Client Sample ID: Unit-2-SST_SO-W-SW-5A **Lab Sample ID: 570-100086-7**
Date Collected: 06/14/22 15:22 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	93000		25000		ug/Kg	☼	06/17/22 17:54	06/23/22 10:39	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*180*	*S1+*	*25 - 126*	*06/17/22 17:54*	*06/23/22 10:39*	*500*
DCB Decachlorobiphenyl (Surr)	*750*	*S1+*	*20 - 155*	*06/17/22 17:54*	*06/23/22 10:39*	*500*

Client Sample ID: Unit-2-SST_SO-W-SW-5B **Lab Sample ID: 570-100086-8**
Date Collected: 06/14/22 15:31 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	68000		5100		ug/Kg	☼	06/17/22 17:54	06/23/22 10:58	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*88*		*25 - 126*	*06/17/22 17:54*	*06/23/22 10:58*	*100*
DCB Decachlorobiphenyl (Surr)	*115*		*20 - 155*	*06/17/22 17:54*	*06/23/22 10:58*	*100*

Client Sample ID: Unit-2-SST_SO-W-SW-5C **Lab Sample ID: 570-100086-9**
Date Collected: 06/14/22 15:38 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	36000		5000		ug/Kg	☼	06/17/22 17:54	06/23/22 11:17	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*81*		*25 - 126*	*06/17/22 17:54*	*06/23/22 11:17*	*100*
DCB Decachlorobiphenyl (Surr)	*100*		*20 - 155*	*06/17/22 17:54*	*06/23/22 11:17*	*100*

Client Sample ID: Unit-2-SST_SO-W-W-5A **Lab Sample ID: 570-100086-10**
Date Collected: 06/14/22 15:58 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	1900		250		ug/Kg	☼	06/17/22 17:54	06/23/22 11:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*79*		*25 - 126*	*06/17/22 17:54*	*06/23/22 11:36*	*5*
DCB Decachlorobiphenyl (Surr)	*86*		*20 - 155*	*06/17/22 17:54*	*06/23/22 11:36*	*5*

General Chemistry

Client Sample ID: Unit-2-LT-5A **Lab Sample ID: 570-100086-1**
Date Collected: 06/14/22 13:45 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		0.1		%			06/21/22 12:21	1

Client Sample ID: Unit-2-LT-5B **Lab Sample ID: 570-100086-2**
Date Collected: 06/14/22 13:55 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.4		0.1		%			06/21/22 12:21	1

Client Sample ID: Unit-2-LT-5C **Lab Sample ID: 570-100086-3**
Date Collected: 06/14/22 14:00 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.3		0.1		%			06/21/22 12:21	1

Client Sample ID: Unit-2-LT-5F **Lab Sample ID: 570-100086-4**
Date Collected: 06/14/22 14:07 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.4		0.1		%			06/21/22 12:21	1

Client Sample ID: Unit-2-LT-5G **Lab Sample ID: 570-100086-5**
Date Collected: 06/14/22 14:20 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		0.1		%			06/21/22 12:21	1

Client Sample ID: Unit-2-SST_SO-W-W-5B **Lab Sample ID: 570-100086-6**
Date Collected: 06/14/22 14:35 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.0		0.1		%			06/21/22 12:21	1

Client Sample ID: Unit-2-SST_SO-W-SW-5A **Lab Sample ID: 570-100086-7**
Date Collected: 06/14/22 15:22 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.4		0.1		%			06/21/22 12:21	1

Client Sample ID: Unit-2-SST_SO-W-SW-5B **Lab Sample ID: 570-100086-8**
Date Collected: 06/14/22 15:31 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		0.1		%			06/21/22 12:21	1

Client Sample ID: Unit-2-SST_SO-W-SW-5C **Lab Sample ID: 570-100086-9**
Date Collected: 06/14/22 15:38 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.6		0.1		%			06/21/22 12:21	1

Client: Roux Associates, Inc.
Job ID: 570-100086-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

General Chemistry

Client Sample ID: Unit-2-SST_SO-W-W-5A
Lab Sample ID: 570-100086-10
Date Collected: 06/14/22 15:58
Matrix: Solid
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		0.1		%			06/21/22 12:21	1

Client Sample ID: Unit-2-SST_SO-W-W-5C
Lab Sample ID: 570-100086-11
Date Collected: 06/14/22 16:05
Matrix: Solid
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.5		0.1		%			06/21/22 12:21	1

Client Sample ID: Unit-2-SST_SO-W-W-5D
Lab Sample ID: 570-100086-12
Date Collected: 06/14/22 16:10
Matrix: Solid
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		0.1		%			06/21/22 12:21	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-100086-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(25-126)	(20-155)
570-98886-B-1-A MS	Matrix Spike	82	90
570-98886-B-1-B MSD	Matrix Spike Duplicate	85	93
570-100086-1	Unit-2-LT-5A	77	85
570-100086-2	Unit-2-LT-5B	75	60
570-100086-3	Unit-2-LT-5C	74	66
570-100086-4	Unit-2-LT-5F	70	62
570-100086-5	Unit-2-LT-5G	73	63
570-100086-6	Unit-2-SST_SO-W-W-5B	80	73
570-100086-7	Unit-2-SST_SO-W-SW-5A	81	80
570-100086-7 - DL	Unit-2-SST_SO-W-SW-5A	180 S1+	750 S1+
570-100086-8	Unit-2-SST_SO-W-SW-5B	79	74
570-100086-8 - DL	Unit-2-SST_SO-W-SW-5B	88	115
570-100086-9	Unit-2-SST_SO-W-SW-5C	73	71
570-100086-9 - DL	Unit-2-SST_SO-W-SW-5C	81	100
570-100086-10	Unit-2-SST_SO-W-W-5A	76	73
570-100086-10 - DL	Unit-2-SST_SO-W-W-5A	79	86
570-100086-11	Unit-2-SST_SO-W-W-5C	83	78
570-100086-12	Unit-2-SST_SO-W-W-5D	75	79
LCS 570-242492/2-A	Lab Control Sample	74	88
LCSD 570-242492/3-A	Lab Control Sample Dup	77	89
MB 570-242492/1-A	Method Blank	70	88

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-242492/1-A
Matrix: Solid
Analysis Batch: 243065

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 242492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1221	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1232	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1242	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1248	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1254	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1260	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1262	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1268	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*70*		*25 - 126*	*06/17/22 17:54*	*06/21/22 18:10*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*20 - 155*	*06/17/22 17:54*	*06/21/22 18:10*	*1*

Lab Sample ID: LCS 570-242492/2-A
Matrix: Solid
Analysis Batch: 243065

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 242492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	83.05		ug/Kg		83	50 - 142
Aroclor-1260	100	81.35		ug/Kg		81	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*74*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*88*		*20 - 155*

Lab Sample ID: LCSD 570-242492/3-A
Matrix: Solid
Analysis Batch: 243065

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 242492

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	84.80		ug/Kg		85	50 - 142	2	30
Aroclor-1260	100	82.23		ug/Kg		82	50 - 150	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*77*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*89*		*20 - 155*

Lab Sample ID: 570-98886-B-1-A MS
Matrix: Solid
Analysis Batch: 243065

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 242492

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		105	95.86		ug/Kg	☼	91	20 - 175
Aroclor-1260	ND		105	97.74		ug/Kg	☼	93	20 - 180

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

Lab Sample ID: 570-98886-B-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243065 — **Prep Batch: 242492**

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*82*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*90*		*20 - 155*

Lab Sample ID: 570-98886-B-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243065 — **Prep Batch: 242492**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		105	97.19		ug/Kg	☼	93	20 - 175	1	40
Aroclor-1260	ND		105	101.1		ug/Kg	☼	96	20 - 180	3	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*85*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*93*		*20 - 155*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-100086-1 DU — **Client Sample ID: Unit-2-LT-5A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243205

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	1.7		1.7		%		2	10

QC Association Summary

Client: Roux Associates, Inc.
Job ID: 570-100086-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

GC Semi VOA

Prep Batch: 242492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100086-1	Unit-2-LT-5A	Total/NA	Solid	3540C	
570-100086-2	Unit-2-LT-5B	Total/NA	Solid	3540C	
570-100086-3	Unit-2-LT-5C	Total/NA	Solid	3540C	
570-100086-4	Unit-2-LT-5F	Total/NA	Solid	3540C	
570-100086-5	Unit-2-LT-5G	Total/NA	Solid	3540C	
570-100086-6	Unit-2-SST_SO-W-W-5B	Total/NA	Solid	3540C	
570-100086-7	Unit-2-SST_SO-W-SW-5A	Total/NA	Solid	3540C	
570-100086-7 - DL	Unit-2-SST_SO-W-SW-5A	Total/NA	Solid	3540C	
570-100086-8	Unit-2-SST_SO-W-SW-5B	Total/NA	Solid	3540C	
570-100086-8 - DL	Unit-2-SST_SO-W-SW-5B	Total/NA	Solid	3540C	
570-100086-9	Unit-2-SST_SO-W-SW-5C	Total/NA	Solid	3540C	
570-100086-9 - DL	Unit-2-SST_SO-W-SW-5C	Total/NA	Solid	3540C	
570-100086-10	Unit-2-SST_SO-W-W-5A	Total/NA	Solid	3540C	
570-100086-10 - DL	Unit-2-SST_SO-W-W-5A	Total/NA	Solid	3540C	
570-100086-11	Unit-2-SST_SO-W-W-5C	Total/NA	Solid	3540C	
570-100086-12	Unit-2-SST_SO-W-W-5D	Total/NA	Solid	3540C	
MB 570-242492/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-242492/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-242492/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-98886-B-1-A MS	Matrix Spike	Total/NA	Solid	3540C	
570-98886-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3540C	

Analysis Batch: 243065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100086-1	Unit-2-LT-5A	Total/NA	Solid	8082	242492
570-100086-2	Unit-2-LT-5B	Total/NA	Solid	8082	242492
570-100086-3	Unit-2-LT-5C	Total/NA	Solid	8082	242492
570-100086-4	Unit-2-LT-5F	Total/NA	Solid	8082	242492
570-100086-5	Unit-2-LT-5G	Total/NA	Solid	8082	242492
570-100086-6	Unit-2-SST_SO-W-W-5B	Total/NA	Solid	8082	242492
570-100086-7	Unit-2-SST_SO-W-SW-5A	Total/NA	Solid	8082	242492
570-100086-8	Unit-2-SST_SO-W-SW-5B	Total/NA	Solid	8082	242492
570-100086-9	Unit-2-SST_SO-W-SW-5C	Total/NA	Solid	8082	242492
570-100086-10	Unit-2-SST_SO-W-W-5A	Total/NA	Solid	8082	242492
570-100086-11	Unit-2-SST_SO-W-W-5C	Total/NA	Solid	8082	242492
570-100086-12	Unit-2-SST_SO-W-W-5D	Total/NA	Solid	8082	242492
MB 570-242492/1-A	Method Blank	Total/NA	Solid	8082	242492
LCS 570-242492/2-A	Lab Control Sample	Total/NA	Solid	8082	242492
LCSD 570-242492/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	242492
570-98886-B-1-A MS	Matrix Spike	Total/NA	Solid	8082	242492
570-98886-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	242492

Analysis Batch: 243774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100086-7 - DL	Unit-2-SST_SO-W-SW-5A	Total/NA	Solid	8082	242492
570-100086-8 - DL	Unit-2-SST_SO-W-SW-5B	Total/NA	Solid	8082	242492
570-100086-9 - DL	Unit-2-SST_SO-W-SW-5C	Total/NA	Solid	8082	242492
570-100086-10 - DL	Unit-2-SST_SO-W-W-5A	Total/NA	Solid	8082	242492

QC Association Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-100086-1

General Chemistry

Analysis Batch: 243205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100086-1	Unit-2-LT-5A	Total/NA	Solid	Moisture	
570-100086-2	Unit-2-LT-5B	Total/NA	Solid	Moisture	
570-100086-3	Unit-2-LT-5C	Total/NA	Solid	Moisture	
570-100086-4	Unit-2-LT-5F	Total/NA	Solid	Moisture	
570-100086-5	Unit-2-LT-5G	Total/NA	Solid	Moisture	
570-100086-6	Unit-2-SST_SO-W-W-5B	Total/NA	Solid	Moisture	
570-100086-7	Unit-2-SST_SO-W-SW-5A	Total/NA	Solid	Moisture	
570-100086-8	Unit-2-SST_SO-W-SW-5B	Total/NA	Solid	Moisture	
570-100086-9	Unit-2-SST_SO-W-SW-5C	Total/NA	Solid	Moisture	
570-100086-10	Unit-2-SST_SO-W-W-5A	Total/NA	Solid	Moisture	
570-100086-11	Unit-2-SST_SO-W-W-5C	Total/NA	Solid	Moisture	
570-100086-12	Unit-2-SST_SO-W-W-5D	Total/NA	Solid	Moisture	
570-100086-1 DU	Unit-2-LT-5A	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-100086-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-5A
Lab Sample ID: 570-100086-1
Date Collected: 06/14/22 13:45
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.13 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082		1	1 mL	1.0 mL	243065	06/21/22 22:17	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243205	06/21/22 12:21	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-LT-5B
Lab Sample ID: 570-100086-2
Date Collected: 06/14/22 13:55
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.15 g	20 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082		1	1 mL	1.0 mL	243065	06/21/22 22:36	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243205	06/21/22 12:21	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-LT-5C
Lab Sample ID: 570-100086-3
Date Collected: 06/14/22 14:00
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.19 g	20 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082		1			243065	06/21/22 22:55	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243205	06/21/22 12:21	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-LT-5F
Lab Sample ID: 570-100086-4
Date Collected: 06/14/22 14:07
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.16 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082		1	1 mL	1.0 mL	243065	06/21/22 23:14	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243205	06/21/22 12:21	B4QL	ECL 4
	Instrument ID: BAL62									

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-100086-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-5G
Lab Sample ID: 570-100086-5
Date Collected: 06/14/22 14:20
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.10 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082		1			243065	06/21/22 23:33	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243205	06/21/22 12:21	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-SST_SO-W-W-5B
Lab Sample ID: 570-100086-6
Date Collected: 06/14/22 14:35
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.15 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082		1			243065	06/21/22 23:52	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243205	06/21/22 12:21	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-SST_SO-W-SW-5A
Lab Sample ID: 570-100086-7
Date Collected: 06/14/22 15:22
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.20 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082		1	1 mL	1.0 mL	243065	06/21/22 21:58	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Prep	3540C	DL		20.20 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082	DL	500			243774	06/23/22 10:39	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243205	06/21/22 12:21	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-SST_SO-W-SW-5B
Lab Sample ID: 570-100086-8
Date Collected: 06/14/22 15:31
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.13 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082		1	1 mL	1.0 mL	243065	06/22/22 00:30	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Prep	3540C	DL		20.13 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082	DL	100			243774	06/23/22 10:58	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243205	06/21/22 12:21	B4QL	ECL 4
	Instrument ID: BAL62									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-100086-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST_SO-W-SW-5C
Lab Sample ID: 570-100086-9
Date Collected: 06/14/22 15:38
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.18 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082		1	1 mL	1.0 mL	243065	06/22/22 00:49	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Prep	3540C	DL		20.18 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082	DL	100			243774	06/23/22 11:17	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243205	06/21/22 12:21	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-SST_SO-W-W-5A
Lab Sample ID: 570-100086-10
Date Collected: 06/14/22 15:58
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.14 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082		1			243065	06/22/22 02:24	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Prep	3540C	DL		20.14 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082	DL	5			243774	06/23/22 11:36	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243205	06/21/22 12:21	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-SST_SO-W-W-5C
Lab Sample ID: 570-100086-11
Date Collected: 06/14/22 16:05
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.16 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082		1			243065	06/22/22 02:43	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243205	06/21/22 12:21	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-SST_SO-W-W-5D
Lab Sample ID: 570-100086-12
Date Collected: 06/14/22 16:10
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.19 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082		1			243065	06/22/22 03:02	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243205	06/21/22 12:21	B4QL	ECL 4
	Instrument ID: BAL62									

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-100086-1

Laboratory References:

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-100086-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	2944	09-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc. Job ID: 570-100086-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 4
Moisture	Percent Moisture	EPA	ECL 4
3540C	Soxhlet Extraction	SW846	ECL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-100086-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-100086-1	Unit-2-LT-5A	Solid	06/14/22 13:45	06/17/22 11:46
570-100086-2	Unit-2-LT-5B	Solid	06/14/22 13:55	06/17/22 11:46
570-100086-3	Unit-2-LT-5C	Solid	06/14/22 14:00	06/17/22 11:46
570-100086-4	Unit-2-LT-5F	Solid	06/14/22 14:07	06/17/22 11:46
570-100086-5	Unit-2-LT-5G	Solid	06/14/22 14:20	06/17/22 11:46
570-100086-6	Unit-2-SST_SO-W-W-5B	Solid	06/14/22 14:35	06/17/22 11:46
570-100086-7	Unit-2-SST_SO-W-SW-5A	Solid	06/14/22 15:22	06/17/22 11:46
570-100086-8	Unit-2-SST_SO-W-SW-5B	Solid	06/14/22 15:31	06/17/22 11:46
570-100086-9	Unit-2-SST_SO-W-SW-5C	Solid	06/14/22 15:38	06/17/22 11:46
570-100086-10	Unit-2-SST_SO-W-W-5A	Solid	06/14/22 15:58	06/17/22 11:46
570-100086-11	Unit-2-SST_SO-W-W-5C	Solid	06/14/22 16:05	06/17/22 11:46
570-100086-12	Unit-2-SST_SO-W-W-5D	Solid	06/14/22 16:10	06/17/22 11:46

Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Wednesday, July 6, 2022 9:55 AM
To: Patel, Virendra
Cc: Matthew Nelson; Daniel Zaragoza
Subject: RE: Eurofins Calscience report and EDD files from 570-100086-1 Etiwanda Commerce Center / 3653.0001L000
Attachments: J100086-1 UDS Level 2 Report Final Report.pdf

EXTERNAL EMAIL*

Hi Virendra,

Will you please correct the sample ID for sample #570-100086-9. The correct sample ID should be:

- Unit-2-SST_SO-W-SW-5C

Please let me know if you have any questions.

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Thursday, June 30, 2022 11:51 AM
To: Drew Williams <dwilliams@rouxinc.com>; Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>
Subject: Eurofins Calscience report and EDD files from 570-100086-1 Etiwanda Commerce Center / 3653.0001L000

This message originated outside your organization. Please use caution!

Hello,

Attached please find the report and EDD files for job 570-100086-1; Etiwanda Commerce Center / 3653.0001L000

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel

Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [570-337030]
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

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570-100086 Chain of Custody

Loc: 570
100086

(10086)

CHAIN OF CUSTODY RECORD

DATE: 6/14/22

PAGE: 1 OF 2 3

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	PO NO
CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL. (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL. mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com	SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

ECI Project #: 57008787

Report results on dry-weight basis - Mark Nishibayashi (6/17/2022)

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081) 3540C	PCBs (8082) 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture (MHN-6/17)			
1	Unit-2-LT-5A	6/14/22	1345	Soil	1	X													X				X			
2	Unit-2-LT-5B		1355																				X			
3	Unit-2-LT-5C		1400																				X			
4	Unit-2-LT-5F		1407																				X			
5	Unit-2-LT-5G		1420																				X			
6	Unit-2-SST_SO-W-W-5B		1435																				X			
7	Unit-2-SST_SO-W-SW-5A		1522																				X			
8	Unit-2-SST_SO-W-SW-5B		1531																				X			
9	Unit-2-SST_SO-W-SW-5C		1538																				X			
10	Unit-2-SST_SO-W-W-5A		1558																				X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/17/22	Time: 11:46
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2.0 | 3.7 I/246

06/02/14 Revision

7/6/2022 (Rev. 1)

10086

CHAIN OF CUSTODY RECORD

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WO # / LAB USE ONLY

DATE: 6/14/22

PAGE: 2 OF 2

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	PO NO
CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL. (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL. mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com	SAMPLER(S): (PRINT) Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:
ECI Project #: 570087B7
Report results on dry-weight basis - Mark Nishibayashi (6/17/2022)

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture (MHN-6/17)			
11	Unit-2-SST SO-W-W-5C	6/14/22	1605	Solid	1	X													X				X			
12	Unit-2-SST-SO-W-W-5D	↓	1610	↓	1	X													X				X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
		6/17/22	11:46
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

06/02/14 Revision

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570-100086 Chain of Custody

Loc: 570
100086

10086

CHAIN OF CUSTODY RECORD

DATE: 6/14/22

PAGE: 1 OF 2 3

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	PO NO
CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL. (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL. mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com	SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS: ECI Project #: 57008787

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081) 3540C	PCBs (8082) 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6				
1	Unit-2-LT-5A	6/14/22	1345	Soil	1	X													X						
2	Unit-2-LT-5B		1355																						
3	Unit-2-LT-5C		1400																						
4	Unit-2-LT-5F		1407																						
5	Unit-2-LT-5G		1420																						
6	Unit-2-SST_SO-W-W-5B		1435																						
7	Unit-2-SST_SO-W-SW-5A		1522																						
8	Unit-2-SST_SO-W-SW-5B		1531																						
9	Unit-2-SST_SO-W-SW-5C		1538																						
10	Unit-2-SST_SO-W-W-5A		1558																						

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/17/22	Time: 11:46
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2.0 | 3.7 I/246

06/02/14 Revision

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7/6/2022 (Rev. 1)

10086

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7440 Lincoln Way Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us26_sales@eurofinsus com or call us

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 6/14/22

PAGE: 2 OF 2

LABORATORY CLIENT: Roux Associates, Inc

ADDRESS: 5150 Pacific Coast Hwy, Suite 450

CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804

TEL. (818) 726-4265 / (610) 246-3352 / (818) 383-2312

E-MAIL. mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER. Etiwanda Commerce Center / 3653 0001L000

P O NO

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S): (PRINT) Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF

GLOBAL ID:

LOG CODE.

SPECIAL INSTRUCTIONS: ECI Project #: 570087B7

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH _____	BTEX / MTBE ☐ 8260 ☐ _____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6				
11	Unit-2-SST_SO-W-W-5C	6/14/22	1605	Solid	1	X													X							
12	Unit-2-SST_SO-W-W-5D	↓	1610	↓	1	X													X							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
		6/17/22	11:46
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

06/02/14 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-100086-1

Login Number: 100086
List Number: 1
Creator: Ovalle, Erick

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-100089-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L0000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
6/29/2022 12:33:50 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-100089-1
Project/Site: Etiwanda Commerce Center / 3653.0001L0000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-100089-1
Project/Site: Etiwanda Commerce Center / 3653.0001L0000

Job ID: 570-100089-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-100089-1

Comments
No additional comments.

Receipt
The samples were received on 6/17/2022 11:46 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7° C.

GC Semi VOA
Method 8082: Due to the high concentration of Aroclor-1260, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-242496 and analytical batch 570-243065 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

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

Organic Prep
Method 3540C: Due to the matrix, the following samples could not be concentrated to the final method required volume: Unit-2-LT-5D (570-100089-8), Unit-2-LT-5D-DUP (570-100089-9) and Unit-2-LT-5E (570-100089-10). The reporting limits (RLs) are elevated proportionately. The final volume was changed from 10mL to 20ml.
8082

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L0000

Job ID: 570-100089-1

Client Sample ID: Unit-2-SST-SO-W-S1-5A — Lab Sample ID: 570-100089-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	9400		2500		ug/Kg	50	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-S1-5B — Lab Sample ID: 570-100089-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	440		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-S1-5C — Lab Sample ID: 570-100089-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	74000		10000		ug/Kg	200	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-S1-5D — Lab Sample ID: 570-100089-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	510		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-S1-5E — Lab Sample ID: 570-100089-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	390		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-S-5A — Lab Sample ID: 570-100089-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	180		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-S-5A-DUP — Lab Sample ID: 570-100089-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	370		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-5D — Lab Sample ID: 570-100089-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	640		100		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-5D-DUP — Lab Sample ID: 570-100089-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	2100		500		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-5E — Lab Sample ID: 570-100089-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	2300		500		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-5H — Lab Sample ID: 570-100089-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	360		50		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: Unit-2-SST-SO-W-S1-5A **Lab Sample ID: 570-100089-1**
Date Collected: 06/15/22 09:35 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:18	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:18	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:18	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:18	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:18	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:18	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:18	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*87*		*25 - 126*	*06/17/22 18:13*	*06/22/22 04:18*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*20 - 155*	*06/17/22 18:13*	*06/22/22 04:18*	*1*

Client Sample ID: Unit-2-SST-SO-W-S1-5B **Lab Sample ID: 570-100089-2**
Date Collected: 06/15/22 09:39 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:37	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:37	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:37	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:37	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:37	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:37	1
Aroclor-1260	**440**		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:37	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:37	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*78*		*25 - 126*	*06/17/22 18:13*	*06/22/22 04:37*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*20 - 155*	*06/17/22 18:13*	*06/22/22 04:37*	*1*

Client Sample ID: Unit-2-SST-SO-W-S1-5C **Lab Sample ID: 570-100089-3**
Date Collected: 06/15/22 09:45 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:56	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:56	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:56	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:56	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:56	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:56	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:56	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*75*		*25 - 126*	*06/17/22 18:13*	*06/22/22 04:56*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*20 - 155*	*06/17/22 18:13*	*06/22/22 04:56*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-S1-5D **Lab Sample ID: 570-100089-4**
Date Collected: 06/15/22 09:50 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 05:15	1
Aroclor-1221	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 05:15	1
Aroclor-1232	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 05:15	1
Aroclor-1242	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 05:15	1
Aroclor-1248	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 05:15	1
Aroclor-1254	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 05:15	1
Aroclor-1260	**510**		50		ug/Kg	☼	06/17/22 18:13	06/22/22 05:15	1
Aroclor-1262	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 05:15	1
Aroclor-1268	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 05:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*77*		*25 - 126*	*06/17/22 18:13*	*06/22/22 05:15*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*20 - 155*	*06/17/22 18:13*	*06/22/22 05:15*	*1*

Client Sample ID: Unit-2-SST-SO-W-S1-5E **Lab Sample ID: 570-100089-5**
Date Collected: 06/15/22 09:55 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:34	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:34	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:34	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:34	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:34	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:34	1
Aroclor-1260	**390**		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:34	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:34	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*78*		*25 - 126*	*06/17/22 18:13*	*06/22/22 05:34*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*20 - 155*	*06/17/22 18:13*	*06/22/22 05:34*	*1*

Client Sample ID: Unit-2-SST-SO-W-S-5A **Lab Sample ID: 570-100089-6**
Date Collected: 06/15/22 11:13 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:53	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:53	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:53	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:53	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:53	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:53	1
Aroclor-1260	**180**		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:53	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:53	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*81*		*25 - 126*	*06/17/22 18:13*	*06/22/22 05:53*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*20 - 155*	*06/17/22 18:13*	*06/22/22 05:53*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-S-5A-DUP **Lab Sample ID: 570-100089-7**
Date Collected: 06/15/22 11:13 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 06:12	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 06:12	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 06:12	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 06:12	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 06:12	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 06:12	1
Aroclor-1260	**370**		51		ug/Kg	☼	06/17/22 18:13	06/22/22 06:12	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 06:12	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 06:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*73*		*25 - 126*	*06/17/22 18:13*	*06/22/22 06:12*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*20 - 155*	*06/17/22 18:13*	*06/22/22 06:12*	*1*

Client Sample ID: Unit-2-LT-5D **Lab Sample ID: 570-100089-8**
Date Collected: 06/15/22 11:48 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:31	1
Aroclor-1221	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:31	1
Aroclor-1232	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:31	1
Aroclor-1242	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:31	1
Aroclor-1248	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:31	1
Aroclor-1254	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:31	1
Aroclor-1260	**640**		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:31	1
Aroclor-1262	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:31	1
Aroclor-1268	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*41*		*25 - 126*	*06/17/22 18:13*	*06/22/22 06:31*	*1*
DCB Decachlorobiphenyl (Surr)	*36*		*20 - 155*	*06/17/22 18:13*	*06/22/22 06:31*	*1*

Client Sample ID: Unit-2-LT-5D-DUP **Lab Sample ID: 570-100089-9**
Date Collected: 06/15/22 11:48 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:50	1
Aroclor-1221	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:50	1
Aroclor-1232	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:50	1
Aroclor-1242	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:50	1
Aroclor-1248	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:50	1
Aroclor-1254	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:50	1
Aroclor-1262	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:50	1
Aroclor-1268	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 06:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*54*		*25 - 126*	*06/17/22 18:13*	*06/22/22 06:50*	*1*
DCB Decachlorobiphenyl (Surr)	*55*		*20 - 155*	*06/17/22 18:13*	*06/22/22 06:50*	*1*

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

Client Sample ID: Unit-2-LT-5E **Lab Sample ID: 570-100089-10**
Date Collected: 06/15/22 11:52 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 07:09	1
Aroclor-1221	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 07:09	1
Aroclor-1232	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 07:09	1
Aroclor-1242	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 07:09	1
Aroclor-1248	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 07:09	1
Aroclor-1254	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 07:09	1
Aroclor-1262	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 07:09	1
Aroclor-1268	ND		100		ug/Kg	☼	06/17/22 18:13	06/22/22 07:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*68*		*25 - 126*	*06/17/22 18:13*	*06/22/22 07:09*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*20 - 155*	*06/17/22 18:13*	*06/22/22 07:09*	*1*

Client Sample ID: Unit-2-LT-5H **Lab Sample ID: 570-100089-11**
Date Collected: 06/15/22 13:05 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:21	1
Aroclor-1221	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:21	1
Aroclor-1232	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:21	1
Aroclor-1242	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:21	1
Aroclor-1248	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:21	1
Aroclor-1254	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:21	1
Aroclor-1260	**360**		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:21	1
Aroclor-1262	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:21	1
Aroclor-1268	ND		50		ug/Kg	☼	06/17/22 17:54	06/22/22 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*80*		*25 - 126*	*06/17/22 17:54*	*06/22/22 03:21*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*20 - 155*	*06/17/22 17:54*	*06/22/22 03:21*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-S1-5A **Lab Sample ID: 570-100089-1**
Date Collected: 06/15/22 09:35 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	9400		2500		ug/Kg	☼	06/17/22 18:13	06/23/22 11:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*78*		*25 - 126*	*06/17/22 18:13*	*06/23/22 11:55*	*50*
DCB Decachlorobiphenyl (Surr)	*99*		*20 - 155*	*06/17/22 18:13*	*06/23/22 11:55*	*50*

Client Sample ID: Unit-2-SST-SO-W-S1-5C **Lab Sample ID: 570-100089-3**
Date Collected: 06/15/22 09:45 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	74000		10000		ug/Kg	☼	06/17/22 18:13	06/23/22 12:14	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*80*		*25 - 126*	*06/17/22 18:13*	*06/23/22 12:14*	*200*
DCB Decachlorobiphenyl (Surr)	*104*		*20 - 155*	*06/17/22 18:13*	*06/23/22 12:14*	*200*

Client Sample ID: Unit-2-LT-5D-DUP **Lab Sample ID: 570-100089-9**
Date Collected: 06/15/22 11:48 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	2100		500		ug/Kg	☼	06/17/22 18:13	06/23/22 12:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*61*		*25 - 126*	*06/17/22 18:13*	*06/23/22 12:33*	*5*
DCB Decachlorobiphenyl (Surr)	*51*		*20 - 155*	*06/17/22 18:13*	*06/23/22 12:33*	*5*

Client Sample ID: Unit-2-LT-5E **Lab Sample ID: 570-100089-10**
Date Collected: 06/15/22 11:52 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	2300		500		ug/Kg	☼	06/17/22 18:13	06/23/22 12:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*88*		*25 - 126*	*06/17/22 18:13*	*06/23/22 12:52*	*5*
DCB Decachlorobiphenyl (Surr)	*66*		*20 - 155*	*06/17/22 18:13*	*06/23/22 12:52*	*5*

General Chemistry

Client Sample ID: Unit-2-SST-SO-W-S1-5A **Lab Sample ID: 570-100089-1**
Date Collected: 06/15/22 09:35 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.0		0.1		%			06/21/22 17:04	1

Client Sample ID: Unit-2-SST-SO-W-S1-5B **Lab Sample ID: 570-100089-2**
Date Collected: 06/15/22 09:39 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.0		0.1		%			06/21/22 17:04	1

Client Sample ID: Unit-2-SST-SO-W-S1-5C **Lab Sample ID: 570-100089-3**
Date Collected: 06/15/22 09:45 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.3		0.1		%			06/21/22 17:04	1

Client Sample ID: Unit-2-SST-SO-W-S1-5D **Lab Sample ID: 570-100089-4**
Date Collected: 06/15/22 09:50 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.1		0.1		%			06/21/22 17:04	1

Client Sample ID: Unit-2-SST-SO-W-S1-5E **Lab Sample ID: 570-100089-5**
Date Collected: 06/15/22 09:55 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.1		0.1		%			06/21/22 17:04	1

Client Sample ID: Unit-2-SST-SO-W-S-5A **Lab Sample ID: 570-100089-6**
Date Collected: 06/15/22 11:13 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		0.1		%			06/21/22 17:04	1

Client Sample ID: Unit-2-SST-SO-W-S-5A-DUP **Lab Sample ID: 570-100089-7**
Date Collected: 06/15/22 11:13 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.1		0.1		%			06/21/22 17:04	1

Client Sample ID: Unit-2-LT-5D **Lab Sample ID: 570-100089-8**
Date Collected: 06/15/22 11:48 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.3		0.1		%			06/21/22 17:04	1

Client Sample ID: Unit-2-LT-5D-DUP **Lab Sample ID: 570-100089-9**
Date Collected: 06/15/22 11:48 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.3		0.1		%			06/21/22 17:04	1

Client: Roux Associates, Inc. Job ID: 570-100089-1
Project/Site: Etiwanda Commerce Center / 3653.0001L0000

General Chemistry

Client Sample ID: Unit-2-LT-5E **Lab Sample ID: 570-100089-10**
Date Collected: 06/15/22 11:52 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.5		0.1		%			06/21/22 17:04	1

Client Sample ID: Unit-2-LT-5H **Lab Sample ID: 570-100089-11**
Date Collected: 06/15/22 13:05 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.1		0.1		%			06/21/22 17:04	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L0000

Job ID: 570-100089-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(25-126)	(20-155)
570-98886-B-1-A MS	Matrix Spike	82	90
570-98886-B-1-B MSD	Matrix Spike Duplicate	85	93
570-100089-1	Unit-2-SST-SO-W-S1-5A	87	90
570-100089-1 - DL	Unit-2-SST-SO-W-S1-5A	78	99
570-100089-1 MS	Unit-2-SST-SO-W-S1-5A	71	73
570-100089-1 MSD	Unit-2-SST-SO-W-S1-5A	85	86
570-100089-2	Unit-2-SST-SO-W-S1-5B	78	81
570-100089-3	Unit-2-SST-SO-W-S1-5C	75	81
570-100089-3 - DL	Unit-2-SST-SO-W-S1-5C	80	104
570-100089-4	Unit-2-SST-SO-W-S1-5D	77	74
570-100089-5	Unit-2-SST-SO-W-S1-5E	78	79
570-100089-6	Unit-2-SST-SO-W-S-5A	81	85
570-100089-7	Unit-2-SST-SO-W-S-5A-DUP	73	79
570-100089-8	Unit-2-LT-5D	41	36
570-100089-9	Unit-2-LT-5D-DUP	54	55
570-100089-9 - DL	Unit-2-LT-5D-DUP	61	51
570-100089-10	Unit-2-LT-5E	68	72
570-100089-10 - DL	Unit-2-LT-5E	88	66
570-100089-11	Unit-2-LT-5H	80	75
LCS 570-242492/2-A	Lab Control Sample	74	88
LCS 570-242496/2-A	Lab Control Sample	80	84
LCSD 570-242492/3-A	Lab Control Sample Dup	77	89
LCSD 570-242496/3-A	Lab Control Sample Dup	75	82
MB 570-242492/1-A	Method Blank	70	88
MB 570-242496/1-A	Method Blank	74	83

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-242492/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 243065
Prep Batch: 242492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1221	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1232	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1242	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1248	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1254	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1260	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1262	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1
Aroclor-1268	ND		50		ug/Kg		06/17/22 17:54	06/21/22 18:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*70*		*25 - 126*	*06/17/22 17:54*	*06/21/22 18:10*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*20 - 155*	*06/17/22 17:54*	*06/21/22 18:10*	*1*

Lab Sample ID: LCS 570-242492/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 243065
Prep Batch: 242492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	83.05		ug/Kg		83	50 - 142
Aroclor-1260	100	81.35		ug/Kg		81	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*74*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*88*		*20 - 155*

Lab Sample ID: LCSD 570-242492/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 243065
Prep Batch: 242492

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	84.80		ug/Kg		85	50 - 142	2	30
Aroclor-1260	100	82.23		ug/Kg		82	50 - 150	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*77*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*89*		*20 - 155*

Lab Sample ID: 570-98886-B-1-A MS
Client Sample ID: Matrix Spike
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 243065
Prep Batch: 242492

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		105	95.86		ug/Kg	☼	91	20 - 175
Aroclor-1260	ND		105	97.74		ug/Kg	☼	93	20 - 180

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

Lab Sample ID: 570-98886-B-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243065 — **Prep Batch: 242492**

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*82*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*90*		*20 - 155*

Lab Sample ID: 570-98886-B-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243065 — **Prep Batch: 242492**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		105	97.19		ug/Kg	☼	93	20 - 175	1	40
Aroclor-1260	ND		105	101.1		ug/Kg	☼	96	20 - 180	3	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*85*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*93*		*20 - 155*

Lab Sample ID: MB 570-242496/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243065 — **Prep Batch: 242496**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1221	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1232	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1242	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1248	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1254	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1260	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1262	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1268	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	*74*		*25 - 126*	*06/17/22 18:13*	*06/22/22 02:05*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*20 - 155*	*06/17/22 18:13*	*06/22/22 02:05*	*1*

Lab Sample ID: LCS 570-242496/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243065 — **Prep Batch: 242496**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	85.21		ug/Kg		85	50 - 142
Aroclor-1260	100	86.79		ug/Kg		87	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*80*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*84*		*20 - 155*

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

Lab Sample ID: LCSD 570-242496/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243065 — **Prep Batch: 242496**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			100	83.71		ug/Kg		84	50 - 142	2	30
Aroclor-1260			100	79.91		ug/Kg		80	50 - 150	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*75*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*82*		*20 - 155*

Lab Sample ID: 570-100089-1 MS — **Client Sample ID: Unit-2-SST-SO-W-S1-5A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243065 — **Prep Batch: 242496**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		101	85.86		ug/Kg	☼	85	20 - 175
Aroclor-1260	11000	E	101	21280	E 4	ug/Kg	☼	9999	20 - 180

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*71*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*73*		*20 - 155*

Lab Sample ID: 570-100089-1 MSD — **Client Sample ID: Unit-2-SST-SO-W-S1-5A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243065 — **Prep Batch: 242496**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		101	98.81		ug/Kg	☼	98	20 - 175	14	40
Aroclor-1260	11000	E	101	18890	E 4	ug/Kg	☼	7659	20 - 180	12	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*85*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*86*		*20 - 155*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-99890-B-1 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243327

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	28.9		28.1		%		3	10

Lab Sample ID: 570-99890-B-2 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243327

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.6		11.2		%		3	10

GC Semi VOA

Prep Batch: 242492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100089-11	Unit-2-LT-5H	Total/NA	Solid	3540C	
MB 570-242492/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-242492/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-242492/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-98886-B-1-A MS	Matrix Spike	Total/NA	Solid	3540C	
570-98886-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3540C	

Prep Batch: 242496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100089-1 - DL	Unit-2-SST-SO-W-S1-5A	Total/NA	Solid	3540C	
570-100089-1	Unit-2-SST-SO-W-S1-5A	Total/NA	Solid	3540C	
570-100089-2	Unit-2-SST-SO-W-S1-5B	Total/NA	Solid	3540C	
570-100089-3	Unit-2-SST-SO-W-S1-5C	Total/NA	Solid	3540C	
570-100089-3 - DL	Unit-2-SST-SO-W-S1-5C	Total/NA	Solid	3540C	
570-100089-4	Unit-2-SST-SO-W-S1-5D	Total/NA	Solid	3540C	
570-100089-5	Unit-2-SST-SO-W-S1-5E	Total/NA	Solid	3540C	
570-100089-6	Unit-2-SST-SO-W-S-5A	Total/NA	Solid	3540C	
570-100089-7	Unit-2-SST-SO-W-S-5A-DUP	Total/NA	Solid	3540C	
570-100089-8	Unit-2-LT-5D	Total/NA	Solid	3540C	
570-100089-9 - DL	Unit-2-LT-5D-DUP	Total/NA	Solid	3540C	
570-100089-9	Unit-2-LT-5D-DUP	Total/NA	Solid	3540C	
570-100089-10 - DL	Unit-2-LT-5E	Total/NA	Solid	3540C	
570-100089-10	Unit-2-LT-5E	Total/NA	Solid	3540C	
MB 570-242496/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-242496/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-242496/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-100089-1 MS	Unit-2-SST-SO-W-S1-5A	Total/NA	Solid	3540C	
570-100089-1 MSD	Unit-2-SST-SO-W-S1-5A	Total/NA	Solid	3540C	

Analysis Batch: 243065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100089-1	Unit-2-SST-SO-W-S1-5A	Total/NA	Solid	8082	242496
570-100089-2	Unit-2-SST-SO-W-S1-5B	Total/NA	Solid	8082	242496
570-100089-3	Unit-2-SST-SO-W-S1-5C	Total/NA	Solid	8082	242496
570-100089-4	Unit-2-SST-SO-W-S1-5D	Total/NA	Solid	8082	242496
570-100089-5	Unit-2-SST-SO-W-S1-5E	Total/NA	Solid	8082	242496
570-100089-6	Unit-2-SST-SO-W-S-5A	Total/NA	Solid	8082	242496
570-100089-7	Unit-2-SST-SO-W-S-5A-DUP	Total/NA	Solid	8082	242496
570-100089-8	Unit-2-LT-5D	Total/NA	Solid	8082	242496
570-100089-9	Unit-2-LT-5D-DUP	Total/NA	Solid	8082	242496
570-100089-10	Unit-2-LT-5E	Total/NA	Solid	8082	242496
570-100089-11	Unit-2-LT-5H	Total/NA	Solid	8082	242492
MB 570-242492/1-A	Method Blank	Total/NA	Solid	8082	242492
MB 570-242496/1-A	Method Blank	Total/NA	Solid	8082	242496
LCS 570-242492/2-A	Lab Control Sample	Total/NA	Solid	8082	242492
LCS 570-242496/2-A	Lab Control Sample	Total/NA	Solid	8082	242496
LCSD 570-242492/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	242492
LCSD 570-242496/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	242496
570-98886-B-1-A MS	Matrix Spike	Total/NA	Solid	8082	242492
570-98886-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	242492
570-100089-1 MS	Unit-2-SST-SO-W-S1-5A	Total/NA	Solid	8082	242496

GC Semi VOA (Continued)

Analysis Batch: 243065 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100089-1 MSD	Unit-2-SST-SO-W-S1-5A	Total/NA	Solid	8082	242496

Analysis Batch: 243774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100089-1 - DL	Unit-2-SST-SO-W-S1-5A	Total/NA	Solid	8082	242496
570-100089-3 - DL	Unit-2-SST-SO-W-S1-5C	Total/NA	Solid	8082	242496
570-100089-9 - DL	Unit-2-LT-5D-DUP	Total/NA	Solid	8082	242496
570-100089-10 - DL	Unit-2-LT-5E	Total/NA	Solid	8082	242496

General Chemistry

Analysis Batch: 243327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100089-1	Unit-2-SST-SO-W-S1-5A	Total/NA	Solid	Moisture	
570-100089-2	Unit-2-SST-SO-W-S1-5B	Total/NA	Solid	Moisture	
570-100089-3	Unit-2-SST-SO-W-S1-5C	Total/NA	Solid	Moisture	
570-100089-4	Unit-2-SST-SO-W-S1-5D	Total/NA	Solid	Moisture	
570-100089-5	Unit-2-SST-SO-W-S1-5E	Total/NA	Solid	Moisture	
570-100089-6	Unit-2-SST-SO-W-S-5A	Total/NA	Solid	Moisture	
570-100089-7	Unit-2-SST-SO-W-S-5A-DUP	Total/NA	Solid	Moisture	
570-100089-8	Unit-2-LT-5D	Total/NA	Solid	Moisture	
570-100089-9	Unit-2-LT-5D-DUP	Total/NA	Solid	Moisture	
570-100089-10	Unit-2-LT-5E	Total/NA	Solid	Moisture	
570-100089-11	Unit-2-LT-5H	Total/NA	Solid	Moisture	
570-99890-B-1 DU	Duplicate	Total/NA	Solid	Moisture	
570-99890-B-2 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L0000

Job ID: 570-100089-1

Client Sample ID: Unit-2-SST-SO-W-S1-5A

Lab Sample ID: 570-100089-1

Date Collected: 06/15/22 09:35
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.11 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1	1 mL	1.0 mL	243065	06/22/22 04:18	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Prep	3540C	DL		20.11 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082	DL	50			243774	06/23/22 11:55	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243327	06/21/22 17:04	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-SST-SO-W-S1-5B

Lab Sample ID: 570-100089-2

Date Collected: 06/15/22 09:39
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.15 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1			243065	06/22/22 04:37	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243327	06/21/22 17:04	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-SST-SO-W-S1-5C

Lab Sample ID: 570-100089-3

Date Collected: 06/15/22 09:45
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.12 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1	1 mL	1.0 mL	243065	06/22/22 04:56	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Prep	3540C	DL		20.12 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082	DL	200			243774	06/23/22 12:14	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243327	06/21/22 17:04	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-SST-SO-W-S1-5D

Lab Sample ID: 570-100089-4

Date Collected: 06/15/22 09:50
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.18 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1			243065	06/22/22 05:15	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243327	06/21/22 17:04	B4QL	ECL 4
	Instrument ID: BAL62									

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-100089-1
Project/Site: Etiwanda Commerce Center / 3653.0001L0000

Client Sample ID: Unit-2-SST-SO-W-S1-5E — Lab Sample ID: 570-100089-5

Date Collected: 06/15/22 09:55 **Matrix: Solid**
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.14 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1			243065	06/22/22 05:34	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243327	06/21/22 17:04	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-SST-SO-W-S-5A — Lab Sample ID: 570-100089-6

Date Collected: 06/15/22 11:13 **Matrix: Solid**
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.16 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1	1 mL	1.0 mL	243065	06/22/22 05:53	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243327	06/21/22 17:04	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-SST-SO-W-S-5A-DUP — Lab Sample ID: 570-100089-7

Date Collected: 06/15/22 11:13 **Matrix: Solid**
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.11 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1			243065	06/22/22 06:12	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243327	06/21/22 17:04	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-LT-5D — Lab Sample ID: 570-100089-8

Date Collected: 06/15/22 11:48 **Matrix: Solid**
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.13 g	20 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1	1 mL	1.0 mL	243065	06/22/22 06:31	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243327	06/21/22 17:04	B4QL	ECL 4
	Instrument ID: BAL62									

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L0000

Job ID: 570-100089-1

Client Sample ID: Unit-2-LT-5D-DUP

Lab Sample ID: 570-100089-9

Date Collected: 06/15/22 11:48
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.15 g	20 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1	1 mL	1.0 mL	243065	06/22/22 06:50	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Prep	3540C	DL		20.15 g	20 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082	DL	5			243774	06/23/22 12:33	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243327	06/21/22 17:04	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-LT-5E

Lab Sample ID: 570-100089-10

Date Collected: 06/15/22 11:52
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.20 g	20 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1			243065	06/22/22 07:09	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Prep	3540C	DL		20.20 g	20 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082	DL	5			243774	06/23/22 12:52	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243327	06/21/22 17:04	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-LT-5H

Lab Sample ID: 570-100089-11

Date Collected: 06/15/22 13:05
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.11 g	10 mL	242492	06/17/22 17:54	USUL	ECL 4
Total/NA	Analysis	8082		1			243065	06/22/22 03:21	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243327	06/21/22 17:04	B4QL	ECL 4
	Instrument ID: BAL62									

Laboratory References:

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-100089-1
Project/Site: Etiwanda Commerce Center / 3653.0001L0000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	2944	09-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc. Job ID: 570-100089-1
Project/Site: Etiwanda Commerce Center / 3653.0001L0000

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 4
Moisture	Percent Moisture	EPA	ECL 4
3540C	Soxhlet Extraction	SW846	ECL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L0000

Job ID: 570-100089-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-100089-1	Unit-2-SST-SO-W-S1-5A	Solid	06/15/22 09:35	06/17/22 11:46
570-100089-2	Unit-2-SST-SO-W-S1-5B	Solid	06/15/22 09:39	06/17/22 11:46
570-100089-3	Unit-2-SST-SO-W-S1-5C	Solid	06/15/22 09:45	06/17/22 11:46
570-100089-4	Unit-2-SST-SO-W-S1-5D	Solid	06/15/22 09:50	06/17/22 11:46
570-100089-5	Unit-2-SST-SO-W-S1-5E	Solid	06/15/22 09:55	06/17/22 11:46
570-100089-6	Unit-2-SST-SO-W-S-5A	Solid	06/15/22 11:13	06/17/22 11:46
570-100089-7	Unit-2-SST-SO-W-S-5A-DUP	Solid	06/15/22 11:13	06/17/22 11:46
570-100089-8	Unit-2-LT-5D	Solid	06/15/22 11:48	06/17/22 11:46
570-100089-9	Unit-2-LT-5D-DUP	Solid	06/15/22 11:48	06/17/22 11:46
570-100089-10	Unit-2-LT-5E	Solid	06/15/22 11:52	06/17/22 11:46
570-100089-11	Unit-2-LT-5H	Solid	06/15/22 13:05	06/17/22 11:46

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For courier service / sample drop off information, contact us26_sales@eurofinsus com or call us

570-100089 Chain of Custody

Loc: 570
100089

CHAIN OF CUSTODY RECORD

DATE: 6/15/22

PAGE: 1 OF 2

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	PO NO.
CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL. (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL. mnelson@rouxinc com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com	SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS
ECI Project #: 57008787
Report results on dry-weight basis - Mark Nishibayashi (6/17/2022)

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 218 6	Moisture (MHN-6/17)
1	Unit-2-SST_SO-W-SI-5A	6/15/22	0935	Solid	1	X													X				X
2	Unit-2-SST_SO-W-SI-5B		0939																				X
3	Unit-2-SST_SO-W-SI-5C		0945																				X
4	Unit-2-SST_SO-W-SI-5D		0950																				X
5	Unit-2-SST_SO-W-SI-5E		0955																				X
6	Unit-2-SST_SO-W-SI-5A		1113																				X
7	Unit-2-SST_SO-W-SI-5A-DUP		1113																				X
8	Unit-2-LT-5D		1148																				X
9	Unit-2-LT-5D-DUP		1148																				X
10	Unit-2-LT-5E		1152																				X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/17/22	Time: 11:46
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/17/22	Time

#1246

06/02/14 Revision

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6/29/2022

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 6/15/22

PAGE: 2 OF 2

LABORATORY CLIENT: Roux Associates, Inc

ADDRESS: 5150 Pacific Coast Hwy, Suite 450

CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804

TEL.: (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

PO NO.:

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

ECI Project #: 57008787

Report results on dry-weight basis - Mark Nishibayashi (6/17/2022)

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 354.0C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Moisture (MHN-6/17)				
11	Unit-2-LT-5H	6/15/22	1305	Solid	1	X													X				X				

Relinquished by: (Signature) Received by: (Signature/Affiliation) Date: 6/17/22 Time: 11:46

Relinquished by: (Signature) Received by: (Signature/Affiliation) Date: Time:

Relinquished by: (Signature) Received by: (Signature/Affiliation) Date Time:

06/02/14 Revision

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6/29/2022

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570-100089 Chain of Custody

Loc: 570
100089

CHAIN OF CUSTODY RECORD

DATE: 6/15/22

PAGE: 1 OF 2

LABORATORY CLIENT: Roux Associates, Inc

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CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

PO NO.

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):

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☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS: ECI Project #: 57008787

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6				
1	Unit-2-SST_SO-W-SI-5A	6/15/22	0935	Solid	1	X													X							
2	Unit-2-SST_SO-W-SI-5B		0939																							
3	Unit-2-SST_SO-W-SI-5C		0945																							
4	Unit-2-SST_SO-W-SI-5D		0950																							
5	Unit-2-SST_SO-W-SI-5E		0955																							
6	Unit-2-SST_SO-W-S-5A		1113																							
7	Unit-2-SST_SO-W-S-5A-DUP		1113																							
8	Unit-2-LT-5D		1148																							
9	Unit-2-LT-5D-DUP		1148																							
10	Unit-2-LT-5E		1152																							

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SPECIAL INSTRUCTIONS

ECI Project #: 57008787

REQUESTED ANALYSES

Please check box or fill in blank as needed

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11	Unit-2-LT-5H	6/15/22	1305	Solid	1	X													X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
		6/17/22	11:46
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time.

06/02/14 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-100089-1

Login Number: 100089
List Number: 1
Creator: Ovalle, Erick

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-100091-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
6/30/2022 11:50:33 AM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-100091-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

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

Job ID: 570-100091-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-100091-1

Comments
No additional comments.

Receipt
The samples were received on 6/17/2022 11:46 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7° C.

GC Semi VOA
Method 8082: Due to the high concentration of Aroclor-1260, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-242496 and analytical batch 570-243065 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8082: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 570-242496 and analytical batch 570-243065 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of < Aroclor-1260> in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

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

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

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-100091-1

Client Sample ID: Unit-2-SST-SO-W-W-5E — Lab Sample ID: 570-100091-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	200		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-5A — Lab Sample ID: 570-100091-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	74		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-5A — Lab Sample ID: 570-100091-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	130		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-5B — Lab Sample ID: 570-100091-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	130		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-1/2-RT-5A — Lab Sample ID: 570-100091-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	130		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-1/2-RT-5B — Lab Sample ID: 570-100091-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	60		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-1-SST-5A — Lab Sample ID: 570-100091-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	85		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-1-SST-5C — Lab Sample ID: 570-100091-8

No Detections.

Client Sample ID: Unit-1-SST-5B — Lab Sample ID: 570-100091-9

No Detections.

Client Sample ID: Unit-1-SST-5B-DUP — Lab Sample ID: 570-100091-10

No Detections.

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: Unit-2-SST-SO-W-W-5E **Lab Sample ID: 570-100091-1**
Date Collected: 06/16/22 10:00 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:28	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:28	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:28	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:28	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:28	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:28	1
Aroclor-1260	**200**		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:28	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:28	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*71*		*25 - 126*	*06/17/22 18:13*	*06/22/22 07:28*	*1*
DCB Decachlorobiphenyl (Surr)	*56*		*20 - 155*	*06/17/22 18:13*	*06/22/22 07:28*	*1*

Client Sample ID: Unit-2-SST-SO-W-5A **Lab Sample ID: 570-100091-2**
Date Collected: 06/16/22 10:08 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:47	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:47	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:47	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:47	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:47	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:47	1
Aroclor-1260	**74**		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:47	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:47	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 07:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*81*		*25 - 126*	*06/17/22 18:13*	*06/22/22 07:47*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*20 - 155*	*06/17/22 18:13*	*06/22/22 07:47*	*1*

Client Sample ID: Unit-2-SST-5A **Lab Sample ID: 570-100091-3**
Date Collected: 06/16/22 10:15 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 10:24	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 10:24	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 10:24	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 10:24	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 10:24	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 10:24	1
Aroclor-1260	**130**		51		ug/Kg	☼	06/17/22 18:13	06/22/22 10:24	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 10:24	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 10:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*75*		*25 - 126*	*06/17/22 18:13*	*06/22/22 10:24*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*20 - 155*	*06/17/22 18:13*	*06/22/22 10:24*	*1*

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

Client Sample ID: Unit-2-SST-5B **Lab Sample ID: 570-100091-4**
Date Collected: 06/16/22 10:24 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 10:43	1
Aroclor-1221	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 10:43	1
Aroclor-1232	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 10:43	1
Aroclor-1242	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 10:43	1
Aroclor-1248	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 10:43	1
Aroclor-1254	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 10:43	1
Aroclor-1260	**130**		50		ug/Kg	☼	06/17/22 18:13	06/22/22 10:43	1
Aroclor-1262	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 10:43	1
Aroclor-1268	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*74*		*25 - 126*	*06/17/22 18:13*	*06/22/22 10:43*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*20 - 155*	*06/17/22 18:13*	*06/22/22 10:43*	*1*

Client Sample ID: Unit-1/2-RT-5A **Lab Sample ID: 570-100091-5**
Date Collected: 06/16/22 10:31 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:02	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:02	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:02	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:02	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:02	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:02	1
Aroclor-1260	**130**		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:02	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:02	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*59*		*25 - 126*	*06/17/22 18:13*	*06/22/22 11:02*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*20 - 155*	*06/17/22 18:13*	*06/22/22 11:02*	*1*

Client Sample ID: Unit-1/2-RT-5B **Lab Sample ID: 570-100091-6**
Date Collected: 06/16/22 10:38 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:21	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:21	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:21	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:21	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:21	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:21	1
Aroclor-1260	**60**		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:21	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:21	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*66*		*25 - 126*	*06/17/22 18:13*	*06/22/22 11:21*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*20 - 155*	*06/17/22 18:13*	*06/22/22 11:21*	*1*

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

Client Sample ID: Unit-1-SST-5A **Lab Sample ID: 570-100091-7**
Date Collected: 06/16/22 11:22 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:40	1
Aroclor-1221	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:40	1
Aroclor-1232	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:40	1
Aroclor-1242	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:40	1
Aroclor-1248	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:40	1
Aroclor-1254	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:40	1
Aroclor-1260	**85**		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:40	1
Aroclor-1262	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:40	1
Aroclor-1268	ND		51		ug/Kg	☼	06/17/22 18:13	06/22/22 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*79*		*25 - 126*	*06/17/22 18:13*	*06/22/22 11:40*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*20 - 155*	*06/17/22 18:13*	*06/22/22 11:40*	*1*

Client Sample ID: Unit-1-SST-5C **Lab Sample ID: 570-100091-8**
Date Collected: 06/16/22 11:28 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	06/17/22 18:13	06/22/22 11:59	1
Aroclor-1221	ND		52		ug/Kg	☼	06/17/22 18:13	06/22/22 11:59	1
Aroclor-1232	ND		52		ug/Kg	☼	06/17/22 18:13	06/22/22 11:59	1
Aroclor-1242	ND		52		ug/Kg	☼	06/17/22 18:13	06/22/22 11:59	1
Aroclor-1248	ND		52		ug/Kg	☼	06/17/22 18:13	06/22/22 11:59	1
Aroclor-1254	ND		52		ug/Kg	☼	06/17/22 18:13	06/22/22 11:59	1
Aroclor-1260	ND		52		ug/Kg	☼	06/17/22 18:13	06/22/22 11:59	1
Aroclor-1262	ND		52		ug/Kg	☼	06/17/22 18:13	06/22/22 11:59	1
Aroclor-1268	ND		52		ug/Kg	☼	06/17/22 18:13	06/22/22 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*77*		*25 - 126*	*06/17/22 18:13*	*06/22/22 11:59*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*20 - 155*	*06/17/22 18:13*	*06/22/22 11:59*	*1*

Client Sample ID: Unit-1-SST-5B **Lab Sample ID: 570-100091-9**
Date Collected: 06/16/22 11:41 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:18	1
Aroclor-1221	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:18	1
Aroclor-1232	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:18	1
Aroclor-1242	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:18	1
Aroclor-1248	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:18	1
Aroclor-1254	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:18	1
Aroclor-1260	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:18	1
Aroclor-1262	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:18	1
Aroclor-1268	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*72*		*25 - 126*	*06/17/22 18:13*	*06/22/22 12:18*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*20 - 155*	*06/17/22 18:13*	*06/22/22 12:18*	*1*

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

Client Sample ID: Unit-1-SST-5B-DUP **Lab Sample ID: 570-100091-10**
Date Collected: 06/16/22 11:41 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:37	1
Aroclor-1221	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:37	1
Aroclor-1232	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:37	1
Aroclor-1242	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:37	1
Aroclor-1248	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:37	1
Aroclor-1254	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:37	1
Aroclor-1260	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:37	1
Aroclor-1262	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:37	1
Aroclor-1268	ND		50		ug/Kg	☼	06/17/22 18:13	06/22/22 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*82*		*25 - 126*	*06/17/22 18:13*	*06/22/22 12:37*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*20 - 155*	*06/17/22 18:13*	*06/22/22 12:37*	*1*

General Chemistry

Client Sample ID: Unit-2-SST-SO-W-W-5E **Lab Sample ID: 570-100091-1**
Date Collected: 06/16/22 10:00 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		0.1		%			06/21/22 18:39	1

Client Sample ID: Unit-2-SST-SO-W-5A **Lab Sample ID: 570-100091-2**
Date Collected: 06/16/22 10:08 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		0.1		%			06/21/22 17:04	1

Client Sample ID: Unit-2-SST-5A **Lab Sample ID: 570-100091-3**
Date Collected: 06/16/22 10:15 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		0.1		%			06/21/22 17:04	1

Client Sample ID: Unit-2-SST-5B **Lab Sample ID: 570-100091-4**
Date Collected: 06/16/22 10:24 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.6		0.1		%			06/21/22 17:04	1

Client Sample ID: Unit-1/2-RT-5A **Lab Sample ID: 570-100091-5**
Date Collected: 06/16/22 10:31 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		0.1		%			06/21/22 18:39	1

Client Sample ID: Unit-1/2-RT-5B **Lab Sample ID: 570-100091-6**
Date Collected: 06/16/22 10:38 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		0.1		%			06/21/22 18:39	1

Client Sample ID: Unit-1-SST-5A **Lab Sample ID: 570-100091-7**
Date Collected: 06/16/22 11:22 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		0.1		%			06/21/22 18:39	1

Client Sample ID: Unit-1-SST-5C **Lab Sample ID: 570-100091-8**
Date Collected: 06/16/22 11:28 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.1		0.1		%			06/21/22 18:39	1

Client Sample ID: Unit-1-SST-5B **Lab Sample ID: 570-100091-9**
Date Collected: 06/16/22 11:41 **Matrix: Solid**
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.4		0.1		%			06/21/22 18:39	1

Client: Roux Associates, Inc.
Job ID: 570-100091-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

General Chemistry

Client Sample ID: Unit-1-SST-5B-DUP
Lab Sample ID: 570-100091-10
Date Collected: 06/16/22 11:41
Matrix: Solid
Date Received: 06/17/22 11:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.3		0.1		%			06/21/22 18:39	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-100091-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(25-126)	(20-155)
570-100089-A-1-A MS	Matrix Spike	71	73
570-100089-A-1-B MSD	Matrix Spike Duplicate	85	86
570-100091-1	Unit-2-SST-SO-W-W-5E	71	56
570-100091-2	Unit-2-SST-SO-W-5A	81	66
570-100091-3	Unit-2-SST-5A	75	74
570-100091-4	Unit-2-SST-5B	74	75
570-100091-5	Unit-1/2-RT-5A	59	65
570-100091-6	Unit-1/2-RT-5B	66	66
570-100091-7	Unit-1-SST-5A	79	81
570-100091-8	Unit-1-SST-5C	77	86
570-100091-9	Unit-1-SST-5B	72	75
570-100091-10	Unit-1-SST-5B-DUP	82	87
LCS 570-242496/2-A	Lab Control Sample	80	84
LCSD 570-242496/3-A	Lab Control Sample Dup	75	82
MB 570-242496/1-A	Method Blank	74	83

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-242496/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 243065
Prep Batch: 242496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1221	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1232	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1242	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1248	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1254	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1260	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1262	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1
Aroclor-1268	ND		50		ug/Kg		06/17/22 18:13	06/22/22 02:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*74*		*25 - 126*	*06/17/22 18:13*	*06/22/22 02:05*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*20 - 155*	*06/17/22 18:13*	*06/22/22 02:05*	*1*

Lab Sample ID: LCS 570-242496/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 243065
Prep Batch: 242496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	85.21		ug/Kg		85	50 - 142
Aroclor-1260	100	86.79		ug/Kg		87	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*80*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*84*		*20 - 155*

Lab Sample ID: LCSD 570-242496/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 243065
Prep Batch: 242496

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	83.71		ug/Kg		84	50 - 142	2	30
Aroclor-1260	100	79.91		ug/Kg		80	50 - 150	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*75*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*82*		*20 - 155*

Lab Sample ID: 570-100089-A-1-A MS
Client Sample ID: Matrix Spike
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 243065
Prep Batch: 242496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		101	85.86		ug/Kg	☼	85	20 - 175
Aroclor-1260	11000	E	101	21280	E 4	ug/Kg	☼	9999	20 - 180

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

Lab Sample ID: 570-100089-A-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243065 — **Prep Batch: 242496**

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*71*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*73*		*20 - 155*

Lab Sample ID: 570-100089-A-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243065 — **Prep Batch: 242496**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		101	98.81		ug/Kg	☼	98	20 - 175	14	40
Aroclor-1260	11000	E	101	18890	E 4	ug/Kg	☼	7659	20 - 180	12	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*85*		*25 - 126*
DCB Decachlorobiphenyl (Surr)	*86*		*20 - 155*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-99890-B-2 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243327

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.6		11.2		%		3	10

Lab Sample ID: 570-100091-8 DU — **Client Sample ID: Unit-1-SST-5C**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 243367

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	4.1		3.7		%		10	10

GC Semi VOA

Prep Batch: 242496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100091-1	Unit-2-SST-SO-W-W-5E	Total/NA	Solid	3540C	
570-100091-2	Unit-2-SST-SO-W-5A	Total/NA	Solid	3540C	
570-100091-3	Unit-2-SST-5A	Total/NA	Solid	3540C	
570-100091-4	Unit-2-SST-5B	Total/NA	Solid	3540C	
570-100091-5	Unit-1/2-RT-5A	Total/NA	Solid	3540C	
570-100091-6	Unit-1/2-RT-5B	Total/NA	Solid	3540C	
570-100091-7	Unit-1-SST-5A	Total/NA	Solid	3540C	
570-100091-8	Unit-1-SST-5C	Total/NA	Solid	3540C	
570-100091-9	Unit-1-SST-5B	Total/NA	Solid	3540C	
570-100091-10	Unit-1-SST-5B-DUP	Total/NA	Solid	3540C	
MB 570-242496/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-242496/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-242496/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-100089-A-1-A MS	Matrix Spike	Total/NA	Solid	3540C	
570-100089-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3540C	

Analysis Batch: 243065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100091-1	Unit-2-SST-SO-W-W-5E	Total/NA	Solid	8082	242496
570-100091-2	Unit-2-SST-SO-W-5A	Total/NA	Solid	8082	242496
MB 570-242496/1-A	Method Blank	Total/NA	Solid	8082	242496
LCS 570-242496/2-A	Lab Control Sample	Total/NA	Solid	8082	242496
LCSD 570-242496/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	242496
570-100089-A-1-A MS	Matrix Spike	Total/NA	Solid	8082	242496
570-100089-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	242496

Analysis Batch: 243427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100091-3	Unit-2-SST-5A	Total/NA	Solid	8082	242496
570-100091-4	Unit-2-SST-5B	Total/NA	Solid	8082	242496
570-100091-5	Unit-1/2-RT-5A	Total/NA	Solid	8082	242496
570-100091-6	Unit-1/2-RT-5B	Total/NA	Solid	8082	242496
570-100091-7	Unit-1-SST-5A	Total/NA	Solid	8082	242496
570-100091-8	Unit-1-SST-5C	Total/NA	Solid	8082	242496
570-100091-9	Unit-1-SST-5B	Total/NA	Solid	8082	242496
570-100091-10	Unit-1-SST-5B-DUP	Total/NA	Solid	8082	242496

General Chemistry

Analysis Batch: 243327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100091-2	Unit-2-SST-SO-W-5A	Total/NA	Solid	Moisture	
570-100091-3	Unit-2-SST-5A	Total/NA	Solid	Moisture	
570-100091-4	Unit-2-SST-5B	Total/NA	Solid	Moisture	
570-99890-B-2 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 243367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100091-1	Unit-2-SST-SO-W-W-5E	Total/NA	Solid	Moisture	
570-100091-5	Unit-1/2-RT-5A	Total/NA	Solid	Moisture	
570-100091-6	Unit-1/2-RT-5B	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 243367 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-100091-7	Unit-1-SST-5A	Total/NA	Solid	Moisture	
570-100091-8	Unit-1-SST-5C	Total/NA	Solid	Moisture	
570-100091-9	Unit-1-SST-5B	Total/NA	Solid	Moisture	
570-100091-10	Unit-1-SST-5B-DUP	Total/NA	Solid	Moisture	
570-100091-8 DU	Unit-1-SST-5C	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-100091-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-SO-W-W-5E
Lab Sample ID: 570-100091-1
Date Collected: 06/16/22 10:00
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.14 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1			243065	06/22/22 07:28	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243367	06/21/22 18:39	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-SST-SO-W-5A
Lab Sample ID: 570-100091-2
Date Collected: 06/16/22 10:08
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.10 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1			243065	06/22/22 07:47	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243327	06/21/22 17:04	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-SST-5A
Lab Sample ID: 570-100091-3
Date Collected: 06/16/22 10:15
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.15 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1	1 mL	1.0 mL	243427	06/22/22 10:24	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243327	06/21/22 17:04	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-2-SST-5B
Lab Sample ID: 570-100091-4
Date Collected: 06/16/22 10:24
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.19 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1			243427	06/22/22 10:43	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243327	06/21/22 17:04	B4QL	ECL 4
	Instrument ID: BAL62									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-100091-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-1/2-RT-5A
Lab Sample ID: 570-100091-5
Date Collected: 06/16/22 10:31
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.12 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1			243427	06/22/22 11:02	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243367	06/21/22 18:39	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-1/2-RT-5B
Lab Sample ID: 570-100091-6
Date Collected: 06/16/22 10:38
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.14 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1			243427	06/22/22 11:21	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243367	06/21/22 18:39	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-1-SST-5A
Lab Sample ID: 570-100091-7
Date Collected: 06/16/22 11:22
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.17 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1			243427	06/22/22 11:40	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243367	06/21/22 18:39	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-1-SST-5C
Lab Sample ID: 570-100091-8
Date Collected: 06/16/22 11:28
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.13 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1			243427	06/22/22 11:59	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243367	06/21/22 18:39	B4QL	ECL 4
	Instrument ID: BAL62									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-100091-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-1-SST-5B
Lab Sample ID: 570-100091-9
Date Collected: 06/16/22 11:41
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.16 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1			243427	06/22/22 12:18	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243367	06/21/22 18:39	B4QL	ECL 4
	Instrument ID: BAL62									

Client Sample ID: Unit-1-SST-5B-DUP
Lab Sample ID: 570-100091-10
Date Collected: 06/16/22 11:41
Matrix: Solid
Date Received: 06/17/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.14 g	10 mL	242496	06/17/22 18:13	USUL	ECL 4
Total/NA	Analysis	8082		1			243427	06/22/22 12:37	AJ2Q	ECL 4
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			243367	06/21/22 18:39	B4QL	ECL 4
	Instrument ID: BAL62									

Laboratory References:
ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-100091-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	2944	09-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc. Job ID: 570-100091-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 4
Moisture	Percent Moisture	EPA	ECL 4
3540C	Soxhlet Extraction	SW846	ECL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-100091-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-100091-1	Unit-2-SST-SO-W-W-5E	Solid	06/16/22 10:00	06/17/22 11:46
570-100091-2	Unit-2-SST-SO-W-5A	Solid	06/16/22 10:08	06/17/22 11:46
570-100091-3	Unit-2-SST-5A	Solid	06/16/22 10:15	06/17/22 11:46
570-100091-4	Unit-2-SST-5B	Solid	06/16/22 10:24	06/17/22 11:46
570-100091-5	Unit-1/2-RT-5A	Solid	06/16/22 10:31	06/17/22 11:46
570-100091-6	Unit-1/2-RT-5B	Solid	06/16/22 10:38	06/17/22 11:46
570-100091-7	Unit-1-SST-5A	Solid	06/16/22 11:22	06/17/22 11:46
570-100091-8	Unit-1-SST-5C	Solid	06/16/22 11:28	06/17/22 11:46
570-100091-9	Unit-1-SST-5B	Solid	06/16/22 11:41	06/17/22 11:46
570-100091-10	Unit-1-SST-5B-DUP	Solid	06/16/22 11:41	06/17/22 11:46

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570-100091 Chain of Custody

Loc: 570
100091

100091

CHAIN OF CUSTODY RECORD

DATE: 6-16-22

PAGE: 1 OF 1

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	P O. NO
CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL. (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL. mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc com	SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD").

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS.

ECI Project 5700 8787

Report results on dry-weight basis - Mark Nishibayashi (6/17/2022)

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture (MHN-6/17)			
1	Unit-2-SST_SO-W-W-5E	6-16-22	1000	Solid	1														X				X			
2	Unit-2-SST_SO-W-5A	6-16-22	1008																				X			
3	Unit-2-SST-5A		1015																				X			
4	Unit-2-SST-5B		1024																				X			
5	Unit-½-RT-5A		1031																				X			
6	Unit-½-RT-5B		1038																				X			
7	Unit-1-SST-5A		1122																				X			
8	Unit-1-SST-5C		1128																				X			
9	Unit-1-SST-5B		1141																				X			
10	Unit-1-SST-5B-Dup		1141																				X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/17/22	Time: 11:46
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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06/02/14 Revision

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6/30/2022

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570-100091 Chain of Custody

Loc: 570
100091

100091

CHAIN OF CUSTODY RECORD

DATE: 6-16-22

PAGE: 1 OF 1

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	P.O. NO:
CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL. (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc com	SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD').

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS.
ECI Project 5700 8787

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6
1	Unit-2-SST_SO-W-W-5E	6-16-22	1000	Solid	1														X			
2	Unit-2-SST_SO-W-5A	6-16-22	1008																			
3	Unit-2-SST-5A		1015																			
4	Unit-2-SST-5B		1024																			
5	Unit-½-RT-5A		1031																			
6	Unit-½-RT-5B		1038																			
7	Unit-1-SST-5A		1122																			
8	Unit-1-SST-5C		1128																			
9	Unit-1-SST-5B		1141																			
10	Unit-1-SST-5B-Dup		1141																			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/17/22	Time: 11:46
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

FLQB 2-0/3.7

06/02/14 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-100091-1

Login Number: 100091
List Number: 1
Creator: Ovalle, Erick

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-109835-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
9/20/2022 3:20:47 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-109835-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-109835-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-109835-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-109835-1

Comments
No additional comments.

Receipt
The samples were received on 9/15/2022 4:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.6° C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3540C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-264592. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.
Method 8082.

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

Detection Summary

Client: Roux Associates, Inc. Job ID: 570-109835-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: WIPE_1_T Lab Sample ID: 570-109835-1

No Detections.

Client Sample ID: WIPE_2_B Lab Sample ID: 570-109835-2

No Detections.

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: WIPE_1_T **Lab Sample ID: 570-109835-1**
Date Collected: 09/15/22 08:08 **Matrix: Wipe**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:32	1
Aroclor-1221	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:32	1
Aroclor-1232	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:32	1
Aroclor-1242	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:32	1
Aroclor-1248	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:32	1
Aroclor-1254	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:32	1
Aroclor-1260	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:32	1
Aroclor-1262	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:32	1
Aroclor-1268	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*37 - 135*	*09/15/22 19:03*	*09/19/22 10:32*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*24 - 136*	*09/15/22 19:03*	*09/19/22 10:32*	*1*

Client Sample ID: WIPE_2_B **Lab Sample ID: 570-109835-2**
Date Collected: 09/15/22 08:10 **Matrix: Wipe**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:50	1
Aroclor-1221	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:50	1
Aroclor-1232	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:50	1
Aroclor-1242	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:50	1
Aroclor-1248	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:50	1
Aroclor-1254	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:50	1
Aroclor-1260	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:50	1
Aroclor-1262	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:50	1
Aroclor-1268	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*37 - 135*	*09/15/22 19:03*	*09/19/22 10:50*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*24 - 136*	*09/15/22 19:03*	*09/19/22 10:50*	*1*

Surrogate Summary

Client: Roux Associates, Inc. Job ID: 570-109835-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	TCX1								
Lab Sample ID	Client Sample ID	(37-135)	(24-136)								
570-109835-1	WIPE_1_T	96	96								
570-109835-2	WIPE_2_B	96	94								
LCS 570-264592/2-A	Lab Control Sample	93	88								
LCSD 570-264592/3-A	Lab Control Sample Dup	93	85								
MB 570-264592/1-A	Method Blank	88	83								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

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

Lab Sample ID: MB 570-264592/1-A **Client Sample ID: Method Blank**
Matrix: Wipe **Prep Type: Total/NA**
Analysis Batch: 265185 **Prep Batch: 264592**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:13	1
Aroclor-1221	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:13	1
Aroclor-1232	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:13	1
Aroclor-1242	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:13	1
Aroclor-1248	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:13	1
Aroclor-1254	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:13	1
Aroclor-1260	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:13	1
Aroclor-1262	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:13	1
Aroclor-1268	ND		1.0		ug/Sample		09/15/22 19:03	09/19/22 10:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*37 - 135*	*09/15/22 19:03*	*09/19/22 10:13*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*24 - 136*	*09/15/22 19:03*	*09/19/22 10:13*	*1*

Lab Sample ID: LCS 570-264592/2-A **Client Sample ID: Lab Control Sample**
Matrix: Wipe **Prep Type: Total/NA**
Analysis Batch: 265185 **Prep Batch: 264592**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	2.00	2.408		ug/Sample		120	46 - 131
Aroclor-1260	2.00	2.012		ug/Sample		101	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 135*
Tetrachloro-m-xylene (Surr)	*88*		*24 - 136*

Lab Sample ID: LCSD 570-264592/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Wipe **Prep Type: Total/NA**
Analysis Batch: 265185 **Prep Batch: 264592**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	2.00	2.223		ug/Sample		111	46 - 131	8	32
Aroclor-1260	2.00	1.904		ug/Sample		95	40 - 150	5	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 135*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*

QC Association Summary

Client: Roux Associates, Inc.
Job ID: 570-109835-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

GC Semi VOA

Prep Batch: 264592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-109835-1	WIPE_1_T	Total/NA	Wipe	3540C	
570-109835-2	WIPE_2_B	Total/NA	Wipe	3540C	
MB 570-264592/1-A	Method Blank	Total/NA	Wipe	3540C	
LCS 570-264592/2-A	Lab Control Sample	Total/NA	Wipe	3540C	
LCSD 570-264592/3-A	Lab Control Sample Dup	Total/NA	Wipe	3540C	

Analysis Batch: 265185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-109835-1	WIPE_1_T	Total/NA	Wipe	8082	264592
570-109835-2	WIPE_2_B	Total/NA	Wipe	8082	264592
MB 570-264592/1-A	Method Blank	Total/NA	Wipe	8082	264592
LCS 570-264592/2-A	Lab Control Sample	Total/NA	Wipe	8082	264592
LCSD 570-264592/3-A	Lab Control Sample Dup	Total/NA	Wipe	8082	264592

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-109835-1

Client Sample ID: WIPE_1_T

Lab Sample ID: 570-109835-1

Date Collected: 09/15/22 08:08
Date Received: 09/15/22 17:00

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			1 Wipe	10 mL	264592	09/15/22 19:03	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265185	09/19/22 10:32	AJ2Q	EET CAL
	Instrument ID: GC81A									

Client Sample ID: WIPE_2_B

Lab Sample ID: 570-109835-2

Date Collected: 09/15/22 08:10
Date Received: 09/15/22 17:00

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			1 Wipe	10 mL	264592	09/15/22 19:03	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265185	09/19/22 10:50	AJ2Q	EET CAL
	Instrument ID: GC81A									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-109835-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Wipe	Aroclor-1016
8082	3540C	Wipe	Aroclor-1221
8082	3540C	Wipe	Aroclor-1232
8082	3540C	Wipe	Aroclor-1242
8082	3540C	Wipe	Aroclor-1248
8082	3540C	Wipe	Aroclor-1254
8082	3540C	Wipe	Aroclor-1260
8082	3540C	Wipe	Aroclor-1262
8082	3540C	Wipe	Aroclor-1268

Method Summary

Client: Roux Associates, Inc.
Job ID: 570-109835-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-109835-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-109835-1	WIPE_1_T	Wipe	09/15/22 08:08	09/15/22 17:00
570-109835-2	WIPE_2_B	Wipe	09/15/22 08:10	09/15/22 17:00

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570-109835 Chain of Custody

CHAIN OF CUSTODY 109835

DATE: 9-15-22

PAGE 1 OF 1

LABORATORY CLIENT: Roux Associates, Inc

ADDRESS: 5150 Pacific Coast Hwy, Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL: (818) 726-4265 / (951) 987 1124 / (818) 383-2312

E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

PO NO:

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF

GLOBAL ID:

LOG CODE:

SPECIAL INSTRUCTIONS

ECI # 57008787

REQUESTED ANALYSES

Please check box or fill in blank as needed

Revised COC received from Matt Nelson (Roux) on 09/16/22 at 12:27pm. - Virendra (ECI)

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C	TPH	BTEX / MTBE ☐ 826	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6				
	WIPE_1_T	9-15-22	0808	Wipe	1		X												X	MSW						
	WIPE_2_B	↓	0810	↓	1		↓												X							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 9/15/22	Time: 3:22 PM
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Olga Omelas EC	Date: 9/15/22	Time: 4:25 PM
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

4.6/4.6 SCR

06/02/14 Revision

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9/20/2022

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570-109835 Chain of Custody

CHAIN OF CUSTODY 109835

DATE: 9-15-22

PAGE 1 OF 1

LABORATORY CLIENT: Roux Associates, Inc

ADDRESS: 5150 Pacific Coast Hwy, Suite 450

CITY: Long Beach CA 90804 STATE: CA ZIP: 90804

TEL.: (818) 726-4265 / (951) 987 1124 / (818) 383-2312

E-MAIL.: mnelson@rouxinc com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

PO NO:

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF

GLOBAL ID:

LOG CODE:

SPECIAL INSTRUCTIONS

ECI # 57008787

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 1354OC	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6
	WIPE_1_T	9-15-22	0808	Wipe	1		X															
	WIPE_2_B	↓	0810	↓	1		↓															

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 9/15/22	Time: 3:22 PM
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Olga Oneleg EC	Date: 9/15/22	Time: 4:25 PM
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

4.6/4.6 542

06/02/14 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-109835-1

Login Number: 109835
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-109842-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
9/20/2022 3:23:04 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-109842-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Job ID: 570-109842-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-109842-1

Comments
No additional comments.

Receipt
The samples were received on 9/15/2022 4:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.6º C.

GC Semi VOA
Method 8082: Due to the high concentration of Aroclor-1260, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-264591 and analytical batch 570-265194 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8082: Surrogate recovery for the following samples were outside control limits: Unit-2-SST-SO-W-SW-15C (570-109842-3), Unit-2-SST-SO-W-SW-15D (570-109842-4) and Unit-2-SST-SO-W-SW-15E (570-109842-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: Surrogate recovery for the following sample was outside control limits: Unit-2-SST-SO-W-SW-15H (570-109842-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Organic Prep
Method 3540C: The following sample(s) contains excessive acidity after performing sulfuric acid clean up. The following sample was transfered directly to G.C vial.
8082

Unit-2-SST-SO-W-SW-15D (570-109842-4), Unit-2-SST-SO-W-SW-15E (570-109842-5), Unit-2-SST-SO-W-SW-15I (570-109842-9) and Unit-2-SST-SO-W-SW-15J (570-109842-10)

Method 3540C: Due to the matrix, the following samples could not be concentrated to the final method required volume: UNIT-2-LT-15A (570-109842-13), UNIT-2-LT-15D (570-109842-16), GNIT-2-LT-10G (570-109842-19) and GNIT-2-LT-10G-DUP (570-109842-20). The reporting limits (RLs) are elevated proportionately. The final volume was changed from 10mL to 20ml
8082

Method 3540C: Due to the matrix, the following samples could not be concentrated to the final method required volume: UNIT-2-LT-15B (570-109842-14), UNIT-2-LT-15C (570-109842-15), UNIT-2-LT-15E (570-109842-17) and UNIT-2-LT-10F (570-109842-18). The reporting limits (RLs) are elevated proportionately. the final volume was changed from 10mL to 40mL
8082

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-109842-1

Client Sample ID: Unit-2-SST-SO-W-SW-15A — Lab Sample ID: 570-109842-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	3000		260		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-15B — Lab Sample ID: 570-109842-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	2600		250		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-15C — Lab Sample ID: 570-109842-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	80		52		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260 - DL	120000		10000		ug/Kg	200	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-15D — Lab Sample ID: 570-109842-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	89		51		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260 - DL	77000		10000		ug/Kg	200	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-15E — Lab Sample ID: 570-109842-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	34000		2500		ug/Kg	50	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-15F — Lab Sample ID: 570-109842-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	19000		1000		ug/Kg	20	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-15G — Lab Sample ID: 570-109842-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	13000		2500		ug/Kg	50	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-15H — Lab Sample ID: 570-109842-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	70		50		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260 - DL	110000		9900		ug/Kg	200	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-15I — Lab Sample ID: 570-109842-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	610		52		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-15J — Lab Sample ID: 570-109842-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	140		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-15K — Lab Sample ID: 570-109842-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	130		52		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-109842-1

Client Sample ID: Unit-2-SST-SO-W-SW-15K-DUP — Lab Sample ID: 570-109842-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	100		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: UNIT-2-LT-15A — Lab Sample ID: 570-109842-13

No Detections.

Client Sample ID: UNIT-2-LT-15B — Lab Sample ID: 570-109842-14

No Detections.

Client Sample ID: UNIT-2-LT-15C — Lab Sample ID: 570-109842-15

No Detections.

Client Sample ID: UNIT-2-LT-15D — Lab Sample ID: 570-109842-16

No Detections.

Client Sample ID: UNIT-2-LT-15E — Lab Sample ID: 570-109842-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	600		200		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	520		200		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: UNIT-2-LT-10F — Lab Sample ID: 570-109842-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	500		200		ug/Kg	1	☼	8082	Total/NA
Aroclor-1254 - DL	17000		1000		ug/Kg	5	☼	8082	Total/NA
Aroclor-1260 - DL	4300		1000		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: GNIT-2-LT-10G — Lab Sample ID: 570-109842-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	510		99		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	960		99		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: GNIT-2-LT-10G-DUP — Lab Sample ID: 570-109842-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	460		100		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	1100		100		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: Unit-2-SST-SO-W-SW-15A **Lab Sample ID: 570-109842-1**
Date Collected: 09/15/22 08:00 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:14	1
Aroclor-1221	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:14	1
Aroclor-1232	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:14	1
Aroclor-1242	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:14	1
Aroclor-1248	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:14	1
Aroclor-1254	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:14	1
Aroclor-1262	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:14	1
Aroclor-1268	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*97*		*24 - 136*	*09/15/22 18:48*	*09/19/22 11:14*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*37 - 135*	*09/15/22 18:48*	*09/19/22 11:14*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-15B **Lab Sample ID: 570-109842-2**
Date Collected: 09/15/22 08:20 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:33	1
Aroclor-1221	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:33	1
Aroclor-1232	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:33	1
Aroclor-1242	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:33	1
Aroclor-1248	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:33	1
Aroclor-1254	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:33	1
Aroclor-1262	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:33	1
Aroclor-1268	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*94*		*24 - 136*	*09/15/22 18:48*	*09/19/22 11:33*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*37 - 135*	*09/15/22 18:48*	*09/19/22 11:33*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-15C **Lab Sample ID: 570-109842-3**
Date Collected: 09/15/22 08:26 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 11:52	1
Aroclor-1221	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 11:52	1
Aroclor-1232	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 11:52	1
Aroclor-1242	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 11:52	1
Aroclor-1248	**80**		52		ug/Kg	☼	09/15/22 18:48	09/19/22 11:52	1
Aroclor-1254	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 11:52	1
Aroclor-1262	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 11:52	1
Aroclor-1268	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*94*		*24 - 136*	*09/15/22 18:48*	*09/19/22 11:52*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*37 - 135*	*09/15/22 18:48*	*09/19/22 11:52*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-SW-15D **Lab Sample ID: 570-109842-4**
Date Collected: 09/15/22 08:33 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:10	1
Aroclor-1221	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:10	1
Aroclor-1232	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:10	1
Aroclor-1242	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:10	1
Aroclor-1248	**89**		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:10	1
Aroclor-1254	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:10	1
Aroclor-1262	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:10	1
Aroclor-1268	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*70*		*24 - 136*	*09/15/22 18:48*	*09/19/22 12:10*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 135*	*09/15/22 18:48*	*09/19/22 12:10*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-15E **Lab Sample ID: 570-109842-5**
Date Collected: 09/15/22 08:39 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:29	1
Aroclor-1221	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:29	1
Aroclor-1232	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:29	1
Aroclor-1242	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:29	1
Aroclor-1248	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:29	1
Aroclor-1254	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:29	1
Aroclor-1262	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:29	1
Aroclor-1268	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*80*		*24 - 136*	*09/15/22 18:48*	*09/19/22 12:29*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*37 - 135*	*09/15/22 18:48*	*09/19/22 12:29*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-15F **Lab Sample ID: 570-109842-6**
Date Collected: 09/15/22 08:45 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:48	1
Aroclor-1221	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:48	1
Aroclor-1232	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:48	1
Aroclor-1242	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:48	1
Aroclor-1248	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:48	1
Aroclor-1254	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:48	1
Aroclor-1262	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:48	1
Aroclor-1268	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*	*09/15/22 18:48*	*09/19/22 12:48*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*37 - 135*	*09/15/22 18:48*	*09/19/22 12:48*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-SW-15G **Lab Sample ID: 570-109842-7**
Date Collected: 09/15/22 08:50 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49		ug/Kg	☼	09/15/22 18:48	09/19/22 15:22	1
Aroclor-1221	ND		49		ug/Kg	☼	09/15/22 18:48	09/19/22 15:22	1
Aroclor-1232	ND		49		ug/Kg	☼	09/15/22 18:48	09/19/22 15:22	1
Aroclor-1242	ND		49		ug/Kg	☼	09/15/22 18:48	09/19/22 15:22	1
Aroclor-1248	ND		49		ug/Kg	☼	09/15/22 18:48	09/19/22 15:22	1
Aroclor-1254	ND		49		ug/Kg	☼	09/15/22 18:48	09/19/22 15:22	1
Aroclor-1262	ND		49		ug/Kg	☼	09/15/22 18:48	09/19/22 15:22	1
Aroclor-1268	ND		49		ug/Kg	☼	09/15/22 18:48	09/19/22 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*90*		*24 - 136*	*09/15/22 18:48*	*09/19/22 15:22*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 135*	*09/15/22 18:48*	*09/19/22 15:22*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-15H **Lab Sample ID: 570-109842-8**
Date Collected: 09/15/22 08:55 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 15:40	1
Aroclor-1221	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 15:40	1
Aroclor-1232	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 15:40	1
Aroclor-1242	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 15:40	1
Aroclor-1248	**70**		50		ug/Kg	☼	09/15/22 18:48	09/19/22 15:40	1
Aroclor-1254	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 15:40	1
Aroclor-1262	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 15:40	1
Aroclor-1268	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*	*09/15/22 18:48*	*09/19/22 15:40*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*37 - 135*	*09/15/22 18:48*	*09/19/22 15:40*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-15I **Lab Sample ID: 570-109842-9**
Date Collected: 09/15/22 09:05 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 15:59	1
Aroclor-1221	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 15:59	1
Aroclor-1232	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 15:59	1
Aroclor-1242	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 15:59	1
Aroclor-1248	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 15:59	1
Aroclor-1254	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 15:59	1
Aroclor-1260	**610**		52		ug/Kg	☼	09/15/22 18:48	09/19/22 15:59	1
Aroclor-1262	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 15:59	1
Aroclor-1268	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*83*		*24 - 136*	*09/15/22 18:48*	*09/19/22 15:59*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*37 - 135*	*09/15/22 18:48*	*09/19/22 15:59*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-SW-15J **Lab Sample ID: 570-109842-10**
Date Collected: 09/15/22 09:10 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 16:18	1
Aroclor-1221	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 16:18	1
Aroclor-1232	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 16:18	1
Aroclor-1242	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 16:18	1
Aroclor-1248	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 16:18	1
Aroclor-1254	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 16:18	1
Aroclor-1260	**140**		50		ug/Kg	☼	09/15/22 18:48	09/19/22 16:18	1
Aroclor-1262	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 16:18	1
Aroclor-1268	ND		50		ug/Kg	☼	09/15/22 18:48	09/19/22 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*87*		*24 - 136*	*09/15/22 18:48*	*09/19/22 16:18*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*37 - 135*	*09/15/22 18:48*	*09/19/22 16:18*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-15K **Lab Sample ID: 570-109842-11**
Date Collected: 09/15/22 09:14 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 16:37	1
Aroclor-1221	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 16:37	1
Aroclor-1232	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 16:37	1
Aroclor-1242	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 16:37	1
Aroclor-1248	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 16:37	1
Aroclor-1254	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 16:37	1
Aroclor-1260	**130**		52		ug/Kg	☼	09/15/22 18:48	09/19/22 16:37	1
Aroclor-1262	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 16:37	1
Aroclor-1268	ND		52		ug/Kg	☼	09/15/22 18:48	09/19/22 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*	*09/15/22 18:48*	*09/19/22 16:37*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*37 - 135*	*09/15/22 18:48*	*09/19/22 16:37*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-15K-DUP **Lab Sample ID: 570-109842-12**
Date Collected: 09/15/22 09:14 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 16:55	1
Aroclor-1221	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 16:55	1
Aroclor-1232	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 16:55	1
Aroclor-1242	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 16:55	1
Aroclor-1248	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 16:55	1
Aroclor-1254	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 16:55	1
Aroclor-1260	**100**		51		ug/Kg	☼	09/15/22 18:48	09/19/22 16:55	1
Aroclor-1262	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 16:55	1
Aroclor-1268	ND		51		ug/Kg	☼	09/15/22 18:48	09/19/22 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*93*		*24 - 136*	*09/15/22 18:48*	*09/19/22 16:55*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 135*	*09/15/22 18:48*	*09/19/22 16:55*	*1*

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

Client Sample ID: UNIT-2-LT-15A **Lab Sample ID: 570-109842-13**
Date Collected: 09/15/22 11:55 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 17:14	1
Aroclor-1221	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 17:14	1
Aroclor-1232	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 17:14	1
Aroclor-1242	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 17:14	1
Aroclor-1248	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 17:14	1
Aroclor-1254	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 17:14	1
Aroclor-1260	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 17:14	1
Aroclor-1262	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 17:14	1
Aroclor-1268	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*50*		*24 - 136*	*09/15/22 18:48*	*09/19/22 17:14*	*1*
DCB Decachlorobiphenyl (Surr)	*37*		*37 - 135*	*09/15/22 18:48*	*09/19/22 17:14*	*1*

Client Sample ID: UNIT-2-LT-15B **Lab Sample ID: 570-109842-14**
Date Collected: 09/15/22 12:03 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 17:33	1
Aroclor-1221	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 17:33	1
Aroclor-1232	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 17:33	1
Aroclor-1242	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 17:33	1
Aroclor-1248	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 17:33	1
Aroclor-1254	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 17:33	1
Aroclor-1260	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 17:33	1
Aroclor-1262	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 17:33	1
Aroclor-1268	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*	*09/15/22 18:48*	*09/19/22 17:33*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*37 - 135*	*09/15/22 18:48*	*09/19/22 17:33*	*1*

Client Sample ID: UNIT-2-LT-15C **Lab Sample ID: 570-109842-15**
Date Collected: 09/15/22 12:08 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 11:47	1
Aroclor-1221	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 11:47	1
Aroclor-1232	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 11:47	1
Aroclor-1242	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 11:47	1
Aroclor-1248	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 11:47	1
Aroclor-1254	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 11:47	1
Aroclor-1260	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 11:47	1
Aroclor-1262	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 11:47	1
Aroclor-1268	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*87*		*24 - 136*	*09/15/22 18:48*	*09/19/22 11:47*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*37 - 135*	*09/15/22 18:48*	*09/19/22 11:47*	*1*

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

Client Sample ID: UNIT-2-LT-15D **Lab Sample ID: 570-109842-16**
Date Collected: 09/15/22 12:16 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 12:06	1
Aroclor-1221	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 12:06	1
Aroclor-1232	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 12:06	1
Aroclor-1242	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 12:06	1
Aroclor-1248	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 12:06	1
Aroclor-1254	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 12:06	1
Aroclor-1260	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 12:06	1
Aroclor-1262	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 12:06	1
Aroclor-1268	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 12:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*68*		*24 - 136*	*09/15/22 18:48*	*09/19/22 12:06*	*1*
DCB Decachlorobiphenyl (Surr)	*46*		*37 - 135*	*09/15/22 18:48*	*09/19/22 12:06*	*1*

Client Sample ID: UNIT-2-LT-15E **Lab Sample ID: 570-109842-17**
Date Collected: 09/15/22 12:22 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:25	1
Aroclor-1221	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:25	1
Aroclor-1232	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:25	1
Aroclor-1242	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:25	1
Aroclor-1248	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:25	1
Aroclor-1254	**600**		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:25	1
Aroclor-1260	**520**		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:25	1
Aroclor-1262	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:25	1
Aroclor-1268	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*67*		*24 - 136*	*09/15/22 18:48*	*09/19/22 12:25*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*37 - 135*	*09/15/22 18:48*	*09/19/22 12:25*	*1*

Client Sample ID: UNIT-2-LT-10F **Lab Sample ID: 570-109842-18**
Date Collected: 09/15/22 12:32 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:44	1
Aroclor-1221	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:44	1
Aroclor-1232	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:44	1
Aroclor-1242	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:44	1
Aroclor-1248	**500**		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:44	1
Aroclor-1262	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:44	1
Aroclor-1268	ND		200		ug/Kg	☼	09/15/22 18:48	09/19/22 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*69*		*24 - 136*	*09/15/22 18:48*	*09/19/22 12:44*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 135*	*09/15/22 18:48*	*09/19/22 12:44*	*1*

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

Client Sample ID: GNIT-2-LT-10G **Lab Sample ID: 570-109842-19**
Date Collected: 09/15/22 12:39 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 13:03	1
Aroclor-1221	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 13:03	1
Aroclor-1232	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 13:03	1
Aroclor-1242	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 13:03	1
Aroclor-1248	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 13:03	1
Aroclor-1254	**510**		99		ug/Kg	☼	09/15/22 18:48	09/19/22 13:03	1
Aroclor-1260	**960**		99		ug/Kg	☼	09/15/22 18:48	09/19/22 13:03	1
Aroclor-1262	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 13:03	1
Aroclor-1268	ND		99		ug/Kg	☼	09/15/22 18:48	09/19/22 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*76*		*24 - 136*	*09/15/22 18:48*	*09/19/22 13:03*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*37 - 135*	*09/15/22 18:48*	*09/19/22 13:03*	*1*

Client Sample ID: GNIT-2-LT-10G-DUP **Lab Sample ID: 570-109842-20**
Date Collected: 09/15/22 12:39 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 13:21	1
Aroclor-1221	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 13:21	1
Aroclor-1232	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 13:21	1
Aroclor-1242	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 13:21	1
Aroclor-1248	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 13:21	1
Aroclor-1254	**460**		100		ug/Kg	☼	09/15/22 18:48	09/19/22 13:21	1
Aroclor-1260	**1100**		100		ug/Kg	☼	09/15/22 18:48	09/19/22 13:21	1
Aroclor-1262	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 13:21	1
Aroclor-1268	ND		100		ug/Kg	☼	09/15/22 18:48	09/19/22 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*64*		*24 - 136*	*09/15/22 18:48*	*09/19/22 13:21*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*37 - 135*	*09/15/22 18:48*	*09/19/22 13:21*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-SW-15A — **Lab Sample ID: 570-109842-1**
Date Collected: 09/15/22 08:00 — **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	3000		260		ug/Kg	☼	09/15/22 18:48	09/19/22 18:29	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*87*		*24 - 136*	*09/15/22 18:48*	*09/19/22 18:29*	*5*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 135*	*09/15/22 18:48*	*09/19/22 18:29*	*5*

Client Sample ID: Unit-2-SST-SO-W-SW-15B — **Lab Sample ID: 570-109842-2**
Date Collected: 09/15/22 08:20 — **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	2600		250		ug/Kg	☼	09/15/22 18:48	09/19/22 18:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*	*09/15/22 18:48*	*09/19/22 18:48*	*5*
DCB Decachlorobiphenyl (Surr)	*101*		*37 - 135*	*09/15/22 18:48*	*09/19/22 18:48*	*5*

Client Sample ID: Unit-2-SST-SO-W-SW-15C — **Lab Sample ID: 570-109842-3**
Date Collected: 09/15/22 08:26 — **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	120000		10000		ug/Kg	☼	09/15/22 18:48	09/19/22 19:06	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*111*		*24 - 136*	*09/15/22 18:48*	*09/19/22 19:06*	*200*
DCB Decachlorobiphenyl (Surr)	*188*	*S1+*	*37 - 135*	*09/15/22 18:48*	*09/19/22 19:06*	*200*

Client Sample ID: Unit-2-SST-SO-W-SW-15D — **Lab Sample ID: 570-109842-4**
Date Collected: 09/15/22 08:33 — **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	77000		10000		ug/Kg	☼	09/15/22 18:48	09/19/22 19:44	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*148*	*S1+*	*24 - 136*	*09/15/22 18:48*	*09/19/22 19:44*	*200*
DCB Decachlorobiphenyl (Surr)	*187*	*S1+*	*37 - 135*	*09/15/22 18:48*	*09/19/22 19:44*	*200*

Client Sample ID: Unit-2-SST-SO-W-SW-15E — **Lab Sample ID: 570-109842-5**
Date Collected: 09/15/22 08:39 — **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	34000		2500		ug/Kg	☼	09/15/22 18:48	09/19/22 20:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*107*		*24 - 136*	*09/15/22 18:48*	*09/19/22 20:03*	*50*
DCB Decachlorobiphenyl (Surr)	*270*	*S1+*	*37 - 135*	*09/15/22 18:48*	*09/19/22 20:03*	*50*

Client Sample ID: Unit-2-SST-SO-W-SW-15F — **Lab Sample ID: 570-109842-6**
Date Collected: 09/15/22 08:45 — **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	19000		1000		ug/Kg	☼	09/15/22 18:48	09/19/22 20:22	20

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	*88*		*24 - 136*	*09/15/22 18:48*	*09/19/22 20:22*	*20*
DCB Decachlorobiphenyl (Surr)	*119*		*37 - 135*	*09/15/22 18:48*	*09/19/22 20:22*	*20*

Client Sample ID: Unit-2-SST-SO-W-SW-15G **Lab Sample ID: 570-109842-7**
Date Collected: 09/15/22 08:50 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**13000**		2500		ug/Kg	☼	09/15/22 18:48	09/20/22 09:27	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	*68*		*24 - 136*	*09/15/22 18:48*	*09/20/22 09:27*	*50*
DCB Decachlorobiphenyl (Surr)	*110*		*37 - 135*	*09/15/22 18:48*	*09/20/22 09:27*	*50*

Client Sample ID: Unit-2-SST-SO-W-SW-15H **Lab Sample ID: 570-109842-8**
Date Collected: 09/15/22 08:55 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**110000**		9900		ug/Kg	☼	09/15/22 18:48	09/20/22 09:46	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	*134*		*24 - 136*	*09/15/22 18:48*	*09/20/22 09:46*	*200*
DCB Decachlorobiphenyl (Surr)	*1029*	*S1+*	*37 - 135*	*09/15/22 18:48*	*09/20/22 09:46*	*200*

Client Sample ID: UNIT-2-LT-10F **Lab Sample ID: 570-109842-18**
Date Collected: 09/15/22 12:32 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1254	**17000**		1000		ug/Kg	☼	09/15/22 18:48	09/19/22 19:25	5
Aroclor-1260	**4300**		1000		ug/Kg	☼	09/15/22 18:48	09/19/22 19:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	*76*		*24 - 136*	*09/15/22 18:48*	*09/19/22 19:25*	*5*
DCB Decachlorobiphenyl (Surr)	*85*		*37 - 135*	*09/15/22 18:48*	*09/19/22 19:25*	*5*

General Chemistry

Client Sample ID: Unit-2-SST-SO-W-SW-15A **Lab Sample ID: 570-109842-1**
Date Collected: 09/15/22 08:00 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		0.1		%			09/16/22 15:37	1

Client Sample ID: Unit-2-SST-SO-W-SW-15B **Lab Sample ID: 570-109842-2**
Date Collected: 09/15/22 08:20 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.4		0.1		%			09/16/22 15:37	1

Client Sample ID: Unit-2-SST-SO-W-SW-15C **Lab Sample ID: 570-109842-3**
Date Collected: 09/15/22 08:26 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		0.1		%			09/16/22 15:37	1

Client Sample ID: Unit-2-SST-SO-W-SW-15D **Lab Sample ID: 570-109842-4**
Date Collected: 09/15/22 08:33 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.5		0.1		%			09/16/22 15:37	1

Client Sample ID: Unit-2-SST-SO-W-SW-15E **Lab Sample ID: 570-109842-5**
Date Collected: 09/15/22 08:39 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.1		0.1		%			09/16/22 15:37	1

Client Sample ID: Unit-2-SST-SO-W-SW-15F **Lab Sample ID: 570-109842-6**
Date Collected: 09/15/22 08:45 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.0		0.1		%			09/16/22 15:37	1

Client Sample ID: Unit-2-SST-SO-W-SW-15G **Lab Sample ID: 570-109842-7**
Date Collected: 09/15/22 08:50 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		0.1		%			09/16/22 15:37	1

Client Sample ID: Unit-2-SST-SO-W-SW-15H **Lab Sample ID: 570-109842-8**
Date Collected: 09/15/22 08:55 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		0.1		%			09/16/22 15:37	1

Client Sample ID: Unit-2-SST-SO-W-SW-15I **Lab Sample ID: 570-109842-9**
Date Collected: 09/15/22 09:05 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.2		0.1		%			09/16/22 15:37	1

General Chemistry

Client Sample ID: Unit-2-SST-SO-W-SW-15J
Date Collected: 09/15/22 09:10
Date Received: 09/15/22 17:00
Lab Sample ID: 570-109842-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.2		0.1		%			09/16/22 15:37	1

Client Sample ID: Unit-2-SST-SO-W-SW-15K
Date Collected: 09/15/22 09:14
Date Received: 09/15/22 17:00
Lab Sample ID: 570-109842-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.4		0.1		%			09/16/22 15:39	1

Client Sample ID: Unit-2-SST-SO-W-SW-15K-DUP
Date Collected: 09/15/22 09:14
Date Received: 09/15/22 17:00
Lab Sample ID: 570-109842-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.1		0.1		%			09/16/22 15:39	1

Client Sample ID: UNIT-2-LT-15A
Date Collected: 09/15/22 11:55
Date Received: 09/15/22 17:00
Lab Sample ID: 570-109842-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.8		0.1		%			09/16/22 15:39	1

Client Sample ID: UNIT-2-LT-15B
Date Collected: 09/15/22 12:03
Date Received: 09/15/22 17:00
Lab Sample ID: 570-109842-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.9		0.1		%			09/16/22 15:39	1

Client Sample ID: UNIT-2-LT-15C
Date Collected: 09/15/22 12:08
Date Received: 09/15/22 17:00
Lab Sample ID: 570-109842-15
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		0.1		%			09/16/22 15:39	1

Client Sample ID: UNIT-2-LT-15D
Date Collected: 09/15/22 12:16
Date Received: 09/15/22 17:00
Lab Sample ID: 570-109842-16
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1		0.1		%			09/16/22 15:39	1

Client Sample ID: UNIT-2-LT-15E
Date Collected: 09/15/22 12:22
Date Received: 09/15/22 17:00
Lab Sample ID: 570-109842-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.6		0.1		%			09/16/22 15:39	1

Client Sample ID: UNIT-2-LT-10F
Date Collected: 09/15/22 12:32
Date Received: 09/15/22 17:00
Lab Sample ID: 570-109842-18
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.2		0.1		%			09/16/22 15:39	1

General Chemistry

Client Sample ID: GNIT-2-LT-10G **Lab Sample ID: 570-109842-19**
Date Collected: 09/15/22 12:39 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.4		0.1		%			09/16/22 15:39	1

Client Sample ID: GNIT-2-LT-10G-DUP **Lab Sample ID: 570-109842-20**
Date Collected: 09/15/22 12:39 **Matrix: Solid**
Date Received: 09/15/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.5		0.1		%			09/16/22 15:39	1

Surrogate Summary

Client: Roux Associates, Inc. Job ID: 570-109842-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-109842-1	Unit-2-SST-SO-W-SW-15A	97	82
570-109842-1 - DL	Unit-2-SST-SO-W-SW-15A	87	93
570-109842-1 MS	Unit-2-SST-SO-W-SW-15A	100	87
570-109842-1 MSD	Unit-2-SST-SO-W-SW-15A	94	81
570-109842-2	Unit-2-SST-SO-W-SW-15B	94	83
570-109842-2 - DL	Unit-2-SST-SO-W-SW-15B	85	101
570-109842-3	Unit-2-SST-SO-W-SW-15C	94	90
570-109842-3 - DL	Unit-2-SST-SO-W-SW-15C	111	188 S1+
570-109842-4	Unit-2-SST-SO-W-SW-15D	70	87
570-109842-4 - DL	Unit-2-SST-SO-W-SW-15D	148 S1+	187 S1+
570-109842-5	Unit-2-SST-SO-W-SW-15E	80	59
570-109842-5 - DL	Unit-2-SST-SO-W-SW-15E	107	270 S1+
570-109842-6	Unit-2-SST-SO-W-SW-15F	85	76
570-109842-6 - DL	Unit-2-SST-SO-W-SW-15F	88	119
570-109842-7	Unit-2-SST-SO-W-SW-15G	90	79
570-109842-7 - DL	Unit-2-SST-SO-W-SW-15G	68	110
570-109842-8	Unit-2-SST-SO-W-SW-15H	95	89
570-109842-8 - DL	Unit-2-SST-SO-W-SW-15H	134	1029 S1+
570-109842-9	Unit-2-SST-SO-W-SW-15I	83	74
570-109842-10	Unit-2-SST-SO-W-SW-15J	87	74
570-109842-11	Unit-2-SST-SO-W-SW-15K	95	83
570-109842-12	Unit-2-SST-SO-W-SW-15K-DUP	93	92
570-109842-13	UNIT-2-LT-15A	50	37
570-109842-14	UNIT-2-LT-15B	85	78
570-109842-15	UNIT-2-LT-15C	87	67
570-109842-16	UNIT-2-LT-15D	68	46
570-109842-17	UNIT-2-LT-15E	67	59
570-109842-18	UNIT-2-LT-10F	69	79
570-109842-18 - DL	UNIT-2-LT-10F	76	85
570-109842-19	GNIT-2-LT-10G	76	78
570-109842-20	GNIT-2-LT-10G-DUP	64	68
LCS 570-264591/2-A	Lab Control Sample	95	91
LCSD 570-264591/3-A	Lab Control Sample Dup	83	91
MB 570-264591/1-A	Method Blank	89	101

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-264591/1-A

Matrix: Solid
Analysis Batch: 265194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 264591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		09/15/22 18:48	09/19/22 10:18	1
Aroclor-1221	ND		50		ug/Kg		09/15/22 18:48	09/19/22 10:18	1
Aroclor-1232	ND		50		ug/Kg		09/15/22 18:48	09/19/22 10:18	1
Aroclor-1242	ND		50		ug/Kg		09/15/22 18:48	09/19/22 10:18	1
Aroclor-1248	ND		50		ug/Kg		09/15/22 18:48	09/19/22 10:18	1
Aroclor-1254	ND		50		ug/Kg		09/15/22 18:48	09/19/22 10:18	1
Aroclor-1260	ND		50		ug/Kg		09/15/22 18:48	09/19/22 10:18	1
Aroclor-1262	ND		50		ug/Kg		09/15/22 18:48	09/19/22 10:18	1
Aroclor-1268	ND		50		ug/Kg		09/15/22 18:48	09/19/22 10:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*89*		*24 - 136*	*09/15/22 18:48*	*09/19/22 10:18*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*37 - 135*	*09/15/22 18:48*	*09/19/22 10:18*	*1*

Lab Sample ID: LCS 570-264591/2-A

Matrix: Solid
Analysis Batch: 265194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 264591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	115.8		ug/Kg		116	46 - 131
Aroclor-1260	100	115.5		ug/Kg		116	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 135*

Lab Sample ID: LCSD 570-264591/3-A

Matrix: Solid
Analysis Batch: 265194

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 264591

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	101.1		ug/Kg		101	46 - 131	14	32
Aroclor-1260	100	94.55		ug/Kg		95	40 - 150	20	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*83*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 135*

Lab Sample ID: 570-109842-1 MS

Matrix: Solid
Analysis Batch: 265194

Client Sample ID: Unit-2-SST-SO-W-SW-15A
Prep Type: Total/NA
Prep Batch: 264591

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		102	116.9		ug/Kg	☼	115	29 - 174
Aroclor-1260	2700	E	102	2705	E 4	ug/Kg	☼	11	20 - 180

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

Lab Sample ID: 570-109842-1 MS **Client Sample ID: Unit-2-SST-SO-W-SW-15A**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 265194 **Prep Batch: 264591**

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*100*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 135*

Lab Sample ID: 570-109842-1 MSD **Client Sample ID: Unit-2-SST-SO-W-SW-15A**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 265194 **Prep Batch: 264591**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		101	109.9		ug/Kg	☼	109	29 - 174	6	40
Aroclor-1260	2700	E	101	2432	E 4	ug/Kg	☼	-260	20 - 180	11	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*94*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-109842-11 DU **Client Sample ID: Unit-2-SST-SO-W-SW-15K**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 264913

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	2.4			2.3		%				3	10

Lab Sample ID: 570-109842-1 DU **Client Sample ID: Unit-2-SST-SO-W-SW-15A**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 265244

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	1.9			1.9		%				3	10

GC Semi VOA

Prep Batch: 264591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-109842-1 - DL	Unit-2-SST-SO-W-SW-15A	Total/NA	Solid	3540C	
570-109842-1	Unit-2-SST-SO-W-SW-15A	Total/NA	Solid	3540C	
570-109842-2	Unit-2-SST-SO-W-SW-15B	Total/NA	Solid	3540C	
570-109842-2 - DL	Unit-2-SST-SO-W-SW-15B	Total/NA	Solid	3540C	
570-109842-3	Unit-2-SST-SO-W-SW-15C	Total/NA	Solid	3540C	
570-109842-3 - DL	Unit-2-SST-SO-W-SW-15C	Total/NA	Solid	3540C	
570-109842-4 - DL	Unit-2-SST-SO-W-SW-15D	Total/NA	Solid	3540C	
570-109842-4	Unit-2-SST-SO-W-SW-15D	Total/NA	Solid	3540C	
570-109842-5 - DL	Unit-2-SST-SO-W-SW-15E	Total/NA	Solid	3540C	
570-109842-5	Unit-2-SST-SO-W-SW-15E	Total/NA	Solid	3540C	
570-109842-6 - DL	Unit-2-SST-SO-W-SW-15F	Total/NA	Solid	3540C	
570-109842-6	Unit-2-SST-SO-W-SW-15F	Total/NA	Solid	3540C	
570-109842-7 - DL	Unit-2-SST-SO-W-SW-15G	Total/NA	Solid	3540C	
570-109842-7	Unit-2-SST-SO-W-SW-15G	Total/NA	Solid	3540C	
570-109842-8 - DL	Unit-2-SST-SO-W-SW-15H	Total/NA	Solid	3540C	
570-109842-8	Unit-2-SST-SO-W-SW-15H	Total/NA	Solid	3540C	
570-109842-9	Unit-2-SST-SO-W-SW-15I	Total/NA	Solid	3540C	
570-109842-10	Unit-2-SST-SO-W-SW-15J	Total/NA	Solid	3540C	
570-109842-11	Unit-2-SST-SO-W-SW-15K	Total/NA	Solid	3540C	
570-109842-12	Unit-2-SST-SO-W-SW-15K-DUP	Total/NA	Solid	3540C	
570-109842-13	UNIT-2-LT-15A	Total/NA	Solid	3540C	
570-109842-14	UNIT-2-LT-15B	Total/NA	Solid	3540C	
570-109842-15	UNIT-2-LT-15C	Total/NA	Solid	3540C	
570-109842-16	UNIT-2-LT-15D	Total/NA	Solid	3540C	
570-109842-17	UNIT-2-LT-15E	Total/NA	Solid	3540C	
570-109842-18 - DL	UNIT-2-LT-10F	Total/NA	Solid	3540C	
570-109842-18	UNIT-2-LT-10F	Total/NA	Solid	3540C	
570-109842-19	GNIT-2-LT-10G	Total/NA	Solid	3540C	
570-109842-20	GNIT-2-LT-10G-DUP	Total/NA	Solid	3540C	
MB 570-264591/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-264591/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-264591/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-109842-1 MS	Unit-2-SST-SO-W-SW-15A	Total/NA	Solid	3540C	
570-109842-1 MSD	Unit-2-SST-SO-W-SW-15A	Total/NA	Solid	3540C	

Analysis Batch: 265185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-109842-15	UNIT-2-LT-15C	Total/NA	Solid	8082	264591
570-109842-16	UNIT-2-LT-15D	Total/NA	Solid	8082	264591
570-109842-17	UNIT-2-LT-15E	Total/NA	Solid	8082	264591
570-109842-18	UNIT-2-LT-10F	Total/NA	Solid	8082	264591
570-109842-19	GNIT-2-LT-10G	Total/NA	Solid	8082	264591
570-109842-20	GNIT-2-LT-10G-DUP	Total/NA	Solid	8082	264591

Analysis Batch: 265194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-109842-1	Unit-2-SST-SO-W-SW-15A	Total/NA	Solid	8082	264591
570-109842-1 - DL	Unit-2-SST-SO-W-SW-15A	Total/NA	Solid	8082	264591
570-109842-2	Unit-2-SST-SO-W-SW-15B	Total/NA	Solid	8082	264591
570-109842-2 - DL	Unit-2-SST-SO-W-SW-15B	Total/NA	Solid	8082	264591
570-109842-3	Unit-2-SST-SO-W-SW-15C	Total/NA	Solid	8082	264591

GC Semi VOA (Continued)

Analysis Batch: 265194 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-109842-3 - DL	Unit-2-SST-SO-W-SW-15C	Total/NA	Solid	8082	264591
570-109842-4	Unit-2-SST-SO-W-SW-15D	Total/NA	Solid	8082	264591
570-109842-4 - DL	Unit-2-SST-SO-W-SW-15D	Total/NA	Solid	8082	264591
570-109842-5	Unit-2-SST-SO-W-SW-15E	Total/NA	Solid	8082	264591
570-109842-5 - DL	Unit-2-SST-SO-W-SW-15E	Total/NA	Solid	8082	264591
570-109842-6	Unit-2-SST-SO-W-SW-15F	Total/NA	Solid	8082	264591
570-109842-6 - DL	Unit-2-SST-SO-W-SW-15F	Total/NA	Solid	8082	264591
570-109842-7	Unit-2-SST-SO-W-SW-15G	Total/NA	Solid	8082	264591
570-109842-8	Unit-2-SST-SO-W-SW-15H	Total/NA	Solid	8082	264591
570-109842-9	Unit-2-SST-SO-W-SW-15I	Total/NA	Solid	8082	264591
570-109842-10	Unit-2-SST-SO-W-SW-15J	Total/NA	Solid	8082	264591
570-109842-11	Unit-2-SST-SO-W-SW-15K	Total/NA	Solid	8082	264591
570-109842-12	Unit-2-SST-SO-W-SW-15K-DUP	Total/NA	Solid	8082	264591
570-109842-13	UNIT-2-LT-15A	Total/NA	Solid	8082	264591
570-109842-14	UNIT-2-LT-15B	Total/NA	Solid	8082	264591
570-109842-18 - DL	UNIT-2-LT-10F	Total/NA	Solid	8082	264591
MB 570-264591/1-A	Method Blank	Total/NA	Solid	8082	264591
LCS 570-264591/2-A	Lab Control Sample	Total/NA	Solid	8082	264591
LCSD 570-264591/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	264591
570-109842-1 MS	Unit-2-SST-SO-W-SW-15A	Total/NA	Solid	8082	264591
570-109842-1 MSD	Unit-2-SST-SO-W-SW-15A	Total/NA	Solid	8082	264591

Analysis Batch: 265607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-109842-7 - DL	Unit-2-SST-SO-W-SW-15G	Total/NA	Solid	8082	264591
570-109842-8 - DL	Unit-2-SST-SO-W-SW-15H	Total/NA	Solid	8082	264591

General Chemistry

Analysis Batch: 264913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-109842-11	Unit-2-SST-SO-W-SW-15K	Total/NA	Solid	Moisture	
570-109842-12	Unit-2-SST-SO-W-SW-15K-DUP	Total/NA	Solid	Moisture	
570-109842-13	UNIT-2-LT-15A	Total/NA	Solid	Moisture	
570-109842-14	UNIT-2-LT-15B	Total/NA	Solid	Moisture	
570-109842-15	UNIT-2-LT-15C	Total/NA	Solid	Moisture	
570-109842-16	UNIT-2-LT-15D	Total/NA	Solid	Moisture	
570-109842-17	UNIT-2-LT-15E	Total/NA	Solid	Moisture	
570-109842-18	UNIT-2-LT-10F	Total/NA	Solid	Moisture	
570-109842-19	GNIT-2-LT-10G	Total/NA	Solid	Moisture	
570-109842-20	GNIT-2-LT-10G-DUP	Total/NA	Solid	Moisture	
570-109842-11 DU	Unit-2-SST-SO-W-SW-15K	Total/NA	Solid	Moisture	

Analysis Batch: 265244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-109842-1	Unit-2-SST-SO-W-SW-15A	Total/NA	Solid	Moisture	
570-109842-2	Unit-2-SST-SO-W-SW-15B	Total/NA	Solid	Moisture	
570-109842-3	Unit-2-SST-SO-W-SW-15C	Total/NA	Solid	Moisture	
570-109842-4	Unit-2-SST-SO-W-SW-15D	Total/NA	Solid	Moisture	
570-109842-5	Unit-2-SST-SO-W-SW-15E	Total/NA	Solid	Moisture	
570-109842-6	Unit-2-SST-SO-W-SW-15F	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 265244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-109842-7	Unit-2-SST-SO-W-SW-15G	Total/NA	Solid	Moisture	
570-109842-8	Unit-2-SST-SO-W-SW-15H	Total/NA	Solid	Moisture	
570-109842-9	Unit-2-SST-SO-W-SW-15I	Total/NA	Solid	Moisture	
570-109842-10	Unit-2-SST-SO-W-SW-15J	Total/NA	Solid	Moisture	
570-109842-1 DU	Unit-2-SST-SO-W-SW-15A	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-109842-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-SO-W-SW-15A
Lab Sample ID: 570-109842-1
Date Collected: 09/15/22 08:00 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.97 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265194	09/19/22 11:14	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		19.97 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	265194	09/19/22 18:29	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265244	09/16/22 15:37	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-15B
Lab Sample ID: 570-109842-2
Date Collected: 09/15/22 08:20 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.28 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265194	09/19/22 11:33	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		20.28 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	265194	09/19/22 18:48	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265244	09/16/22 15:37	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-15C
Lab Sample ID: 570-109842-3
Date Collected: 09/15/22 08:26 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.73 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265194	09/19/22 11:52	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		19.73 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL
Total/NA	Analysis	8082	DL	200	1 mL	1 mL	265194	09/19/22 19:06	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265244	09/16/22 15:37	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-15D
Lab Sample ID: 570-109842-4
Date Collected: 09/15/22 08:33 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.15 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265194	09/19/22 12:10	AJ2Q	EET CAL
	Instrument ID: GC64A									

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-109842-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-SO-W-SW-15D
Lab Sample ID: 570-109842-4
Date Collected: 09/15/22 08:33 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		20.15 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	200	1 mL	1 mL	265194	09/19/22 19:44	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265244	09/16/22 15:37	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-15E
Lab Sample ID: 570-109842-5
Date Collected: 09/15/22 08:39 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.04 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265194	09/19/22 12:29	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		20.04 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL
Total/NA	Analysis	8082	DL	50	1 mL	1 mL	265194	09/19/22 20:03	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265244	09/16/22 15:37	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-15F
Lab Sample ID: 570-109842-6
Date Collected: 09/15/22 08:45 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.09 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265194	09/19/22 12:48	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		20.09 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL
Total/NA	Analysis	8082	DL	20	1 mL	1 mL	265194	09/19/22 20:22	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265244	09/16/22 15:37	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-15G
Lab Sample ID: 570-109842-7
Date Collected: 09/15/22 08:50 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.59 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265194	09/19/22 15:22	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		20.59 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL
Total/NA	Analysis	8082	DL	50	1 mL	1 mL	265607	09/20/22 09:27	AJ2Q	EET CAL
	Instrument ID: GC64A									

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-109842-1

Client Sample ID: Unit-2-SST-SO-W-SW-15G

Lab Sample ID: 570-109842-7
Matrix: Solid
Date Collected: 09/15/22 08:50
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			265244	09/16/22 15:37	B4QL	EET CAL 4

Client Sample ID: Unit-2-SST-SO-W-SW-15H

Lab Sample ID: 570-109842-8
Matrix: Solid
Date Collected: 09/15/22 08:55
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.52 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265194	09/19/22 15:40	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		20.52 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL
Total/NA	Analysis	8082	DL	200	1 mL	1 mL	265607	09/20/22 09:46	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265244	09/16/22 15:37	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-15I

Lab Sample ID: 570-109842-9
Matrix: Solid
Date Collected: 09/15/22 09:05
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.70 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265194	09/19/22 15:59	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265244	09/16/22 15:37	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-15J

Lab Sample ID: 570-109842-10
Matrix: Solid
Date Collected: 09/15/22 09:10
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.57 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265194	09/19/22 16:18	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265244	09/16/22 15:37	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-15K

Lab Sample ID: 570-109842-11
Matrix: Solid
Date Collected: 09/15/22 09:14
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.71 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265194	09/19/22 16:37	AJ2Q	EET CAL
	Instrument ID: GC64A									

Client Sample ID: Unit-2-SST-SO-W-SW-15K
Lab Sample ID: 570-109842-11
Date Collected: 09/15/22 09:14 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			264913	09/16/22 15:39	B4QL	EET CAL 4

Client Sample ID: Unit-2-SST-SO-W-SW-15K-DUP
Lab Sample ID: 570-109842-12
Date Collected: 09/15/22 09:14 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.98 g	10 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265194	09/19/22 16:55	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			264913	09/16/22 15:39	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: UNIT-2-LT-15A
Lab Sample ID: 570-109842-13
Date Collected: 09/15/22 11:55 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.40 g	20 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265194	09/19/22 17:14	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			264913	09/16/22 15:39	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: UNIT-2-LT-15B
Lab Sample ID: 570-109842-14
Date Collected: 09/15/22 12:03 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.96 g	40 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265194	09/19/22 17:33	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			264913	09/16/22 15:39	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: UNIT-2-LT-15C
Lab Sample ID: 570-109842-15
Date Collected: 09/15/22 12:08 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.50 g	40 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265185	09/19/22 11:47	AJ2Q	EET CAL
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			264913	09/16/22 15:39	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: UNIT-2-LT-15D — Lab Sample ID: 570-109842-16

Date Collected: 09/15/22 12:16 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.02 g	20 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265185	09/19/22 12:06	AJ2Q	EET CAL
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			264913	09/16/22 15:39	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: UNIT-2-LT-15E — Lab Sample ID: 570-109842-17

Date Collected: 09/15/22 12:22 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.39 g	40 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265185	09/19/22 12:25	AJ2Q	EET CAL
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			264913	09/16/22 15:39	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: UNIT-2-LT-10F — Lab Sample ID: 570-109842-18

Date Collected: 09/15/22 12:32 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		20.14 g	40 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	265194	09/19/22 19:25	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C			20.14 g	40 mL	264591	09/15/22 18:48	USUL	EET CAL
Total/NA	Analysis	8082		1	1 mL	1 mL	265185	09/19/22 12:44	AJ2Q	EET CAL
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			264913	09/16/22 15:39	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: GNIT-2-LT-10G — Lab Sample ID: 570-109842-19

Date Collected: 09/15/22 12:39 **Matrix: Solid**
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.23 g	20 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265185	09/19/22 13:03	AJ2Q	EET CAL
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			264913	09/16/22 15:39	B4QL	EET CAL
	Instrument ID: MOI4									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-109842-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: GNIT-2-LT-10G-DUP
Lab Sample ID: 570-109842-20
Date Collected: 09/15/22 12:39
Matrix: Solid
Date Received: 09/15/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.97 g	20 mL	264591	09/15/22 18:48	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265185	09/19/22 13:21	AJ2Q	EET CAL
	Instrument ID: GC81A									
Total/NA	Analysis	Moisture		1			264913	09/16/22 15:39	B4QL	EET CAL
	Instrument ID: MOI4									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-109842-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc. Job ID: 570-109842-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-109842-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-109842-1	Unit-2-SST-SO-W-SW-15A	Solid	09/15/22 08:00	09/15/22 17:00
570-109842-2	Unit-2-SST-SO-W-SW-15B	Solid	09/15/22 08:20	09/15/22 17:00
570-109842-3	Unit-2-SST-SO-W-SW-15C	Solid	09/15/22 08:26	09/15/22 17:00
570-109842-4	Unit-2-SST-SO-W-SW-15D	Solid	09/15/22 08:33	09/15/22 17:00
570-109842-5	Unit-2-SST-SO-W-SW-15E	Solid	09/15/22 08:39	09/15/22 17:00
570-109842-6	Unit-2-SST-SO-W-SW-15F	Solid	09/15/22 08:45	09/15/22 17:00
570-109842-7	Unit-2-SST-SO-W-SW-15G	Solid	09/15/22 08:50	09/15/22 17:00
570-109842-8	Unit-2-SST-SO-W-SW-15H	Solid	09/15/22 08:55	09/15/22 17:00
570-109842-9	Unit-2-SST-SO-W-SW-15I	Solid	09/15/22 09:05	09/15/22 17:00
570-109842-10	Unit-2-SST-SO-W-SW-15J	Solid	09/15/22 09:10	09/15/22 17:00
570-109842-11	Unit-2-SST-SO-W-SW-15K	Solid	09/15/22 09:14	09/15/22 17:00
570-109842-12	Unit-2-SST-SO-W-SW-15K-DUP	Solid	09/15/22 09:14	09/15/22 17:00
570-109842-13	UNIT-2-LT-15A	Solid	09/15/22 11:55	09/15/22 17:00
570-109842-14	UNIT-2-LT-15B	Solid	09/15/22 12:03	09/15/22 17:00
570-109842-15	UNIT-2-LT-15C	Solid	09/15/22 12:08	09/15/22 17:00
570-109842-16	UNIT-2-LT-15D	Solid	09/15/22 12:16	09/15/22 17:00
570-109842-17	UNIT-2-LT-15E	Solid	09/15/22 12:22	09/15/22 17:00
570-109842-18	UNIT-2-LT-10F	Solid	09/15/22 12:32	09/15/22 17:00
570-109842-19	GNIT-2-LT-10G	Solid	09/15/22 12:39	09/15/22 17:00
570-109842-20	GNIT-2-LT-10G-DUP	Solid	09/15/22 12:39	09/15/22 17:00

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CHAIN OF CUSTODY RECORD

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WO # / LAB USE ONLY

DATE 9-15-22

PAGE 2 OF 2

LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	PO NO
CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (951) 987 1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc com / dzaragoza@rouxinc com / mnishibayashi@rouxinc.com	SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

ECI # 5700 8787

Report results on a dry-weight basis

Revised COC received from Matt Nelson (Roux) on 09/16/22 at 11:12am. - Virendra (ECI)

REQUESTED ANALYSES

ck box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) /3450C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture				
11	Unit-2-SST_SO-W-SW-15K	9-15-22	0914	S	1	X													X	4SW			X				
12	Unit-2-SST_SO-W-SW-15K - DUP	"	0914	"	"	"													X				"				
13	Unit-2-LT-15A	"	1155	"	"	"													X				"				
14	Unit-2-LT-15B	"	1203	"	"	"													X				"				
15	Unit-2-LT-15C	"	1208	"	"	"													X				"				
16	Unit-2-LT-15D	"	1216	"	"	"													X				"				
17	Unit-2-LT-15E	"	1222	"	"	"													X				"				
18	Unit-2-LT-10F	"	1232	"	"	"													X				"				
19	Unit-2-LT-10G	"	1239	"	"	"													X				"				
20	Unit-2-LT-10G-DUP	"	1239	"	"	"													X				"				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 9/15/22	Time: 3:22 PM
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Olga Cimelos EC	Date: 9/15/22	Time: 4:25 PM
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

4.6/4.6 IRSC 12

06/02/14 Revision

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9/20/2022

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570-109842 Chain of Custody

CHAIN OF CUSTODY 109842

DATE 9-15-22

PAGE 1 OF 2

LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	PO NO
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TEL.: (818) 726-4265 / (951) 987-1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc com / mnishibayashi@rouxinc com	SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

ECI # 5700787

Report results on dry-weight basis

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	TPH(g) GRO	TPH(d) DRO	TPH C6-C36 C6-C44	TPH	BTEX / MTBE 8260	VOCs (8260)	Oxygenates (8260)	Prep (5035) En Core Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) 3540C	PAHs 8270 SIM	T22 Metals 6010/747X 6020/747X	Cr(VI) 7196 7199 218 6	Moisture			
1	Unit-2-SST_SO-W-SW-15A	9-15-22	0800	S	1	X													X				X			
2	Unit-2-SST_SO-W-SW-15B		0820																							
3	Unit-2-SST_SO-W-SW-15C		0826																							
4	Unit-2-SST_SO-W-SW-15D		0833																							
5	Unit-2-SST-SO-W-SW-15E		0839																							
6	Unit-2-SST-SO-W-SW-15F		0845																							
7	Unit-2-SST-SO-W-SW-15G		0850																							
8	Unit-2-SST-SO-W-SW-15H		0855																							
9	Unit-2-SST-SO-W-SW-15I		0905																							
10	Unit-2-SST-SO-W-SW-15J		0910																							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 9/15/22	Time: 5:22 pm
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Olga Omelos EC	Date: 9/15/22	Time: 4:21 pm
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE 9-15-22

PAGE 2 OF 2

LABORATORY CLIENT: Roux Associates Inc

ADDRESS: 5150 Pacific Coast Hwy Suite 450

CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804

TEL.: (818) 726-4265 / (951) 987 1124 / (818) 383-2312

E-MAIL.: mnelson@rouxinc com / dzaragoza@rouxinc com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER.: Etiwanda Commerce Center / 3653 0001L000

P O NO:

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

EC1 # 57008787

Report results on a dry-weight basis

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture
11	Unit-2-SST_SO-W-SW-15K	9-15-22	0914	S	1	X																	X
12	Unit-2-SST_SO-W-SW-15K – DUP		0914																				
13	Unit-2-LT-15A		1155																				
14	Unit-2-LT-15B		1203																				
15	Unit-2-LT-15C		1208																				
16	Unit-2-LT-15D		1216																				
17	Unit-2-LT-15E		1222																				
18	Unit-2-LT-10F		1232																				
19	Unit-2-LT-10G		1239																				
20	Unit-2-LT-10G-DUP		1239																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date 9/15/22	Time 3:22 PM
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Olga Cimelos EC	Date 9/15/22	Time 4:25 PM
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

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9/20/2022

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-109842-1

Login Number: 109842
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-110053-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
9/22/2022 12:29:43 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Sample Summary 27
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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-110053-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-110053-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110053-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-110053-1

Comments
No additional comments.

Receipt
The samples were received on 9/16/2022 6:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.0º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received. No total numer of conatners listed for sample 21.

GC Semi VOA
Method 8082: Surrogate recovery for the following sample was outside control limits: (570-110053-A-21-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: Due to the high concentration of Aroclor-1260, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-265019 and analytical batch 570-265607 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8082: Surrogate recovery for the following samples were outside control limits: Unit-2-SST-SO-W-SW-20B (570-110053-2), Unit-2-SST-SO-W-SW-20C (570-110053-3) and Unit-2-SST-SO-W-SW-20D (570-110053-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Organic Prep
Method 3540C: Due to the matrix, the following samples could not be concentrated to the final method required volume: Unit-2-LT-20E (570-110053-21), (570-110053-A-21 MS) and (570-110053-A-21 MSD). The reporting limits (RLs) are elevated proportionately. The final volume was changed from 10mL to 20mL. Method 8082.

Method 3540C: Due to the matrix, the following samples could not be concentrated to the final method required volume: Unit-2-LT-20B (570-110053-18), Unit-2-LT-20C (570-110053-19) and Unit-2-LT-20D (570-110053-20). The reporting limits (RLs) are elevated proportionately. The

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110053-1

Client Sample ID: Unit-2-SST-SO-W-SW-20A — Lab Sample ID: 570-110053-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1800		510		ug/Kg	10	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-20B — Lab Sample ID: 570-110053-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	260000		51000		ug/Kg	1000	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-20C — Lab Sample ID: 570-110053-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	86000		5100		ug/Kg	100	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-20D — Lab Sample ID: 570-110053-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	560000		51000		ug/Kg	1000	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-20E — Lab Sample ID: 570-110053-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	7100		500		ug/Kg	10	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-20F — Lab Sample ID: 570-110053-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	5800		510		ug/Kg	10	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-20G — Lab Sample ID: 570-110053-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	7600		1000		ug/Kg	20	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-20H — Lab Sample ID: 570-110053-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	570		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-20I — Lab Sample ID: 570-110053-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	230		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-20D — Lab Sample ID: 570-110053-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	570		100		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-20E — Lab Sample ID: 570-110053-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	120		100		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	1500	F2 E	100		ug/Kg	1	☼	8082	Total/NA
Aroclor-1254 - DL	4800		500		ug/Kg	5	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: Unit-2-SST-SO-W-SW-20A **Lab Sample ID: 570-110053-1**
Date Collected: 09/16/22 08:40 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:29	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:29	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:29	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:29	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:29	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:29	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:29	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*98*		*24 - 136*	*09/17/22 08:57*	*09/20/22 15:29*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*37 - 135*	*09/17/22 08:57*	*09/20/22 15:29*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-20B **Lab Sample ID: 570-110053-2**
Date Collected: 09/16/22 09:07 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:48	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:48	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:48	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:48	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:48	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:48	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:48	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*99*		*24 - 136*	*09/17/22 08:57*	*09/20/22 15:48*	*1*
DCB Decachlorobiphenyl (Surr)	*105*		*37 - 135*	*09/17/22 08:57*	*09/20/22 15:48*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-20C **Lab Sample ID: 570-110053-3**
Date Collected: 09/16/22 09:11 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:07	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:07	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:07	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:07	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:07	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:07	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:07	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*97*		*24 - 136*	*09/17/22 08:57*	*09/20/22 16:07*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*37 - 135*	*09/17/22 08:57*	*09/20/22 16:07*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-SW-20D **Lab Sample ID: 570-110053-4**
Date Collected: 09/16/22 09:16 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:25	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:25	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:25	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:25	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:25	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:25	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:25	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*103*		*24 - 136*	*09/17/22 08:57*	*09/20/22 16:25*	*1*
DCB Decachlorobiphenyl (Surr)	*125*		*37 - 135*	*09/17/22 08:57*	*09/20/22 16:25*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-20E **Lab Sample ID: 570-110053-5**
Date Collected: 09/16/22 09:20 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/17/22 08:57	09/20/22 16:44	1
Aroclor-1221	ND		50		ug/Kg	☼	09/17/22 08:57	09/20/22 16:44	1
Aroclor-1232	ND		50		ug/Kg	☼	09/17/22 08:57	09/20/22 16:44	1
Aroclor-1242	ND		50		ug/Kg	☼	09/17/22 08:57	09/20/22 16:44	1
Aroclor-1248	ND		50		ug/Kg	☼	09/17/22 08:57	09/20/22 16:44	1
Aroclor-1254	ND		50		ug/Kg	☼	09/17/22 08:57	09/20/22 16:44	1
Aroclor-1262	ND		50		ug/Kg	☼	09/17/22 08:57	09/20/22 16:44	1
Aroclor-1268	ND		50		ug/Kg	☼	09/17/22 08:57	09/20/22 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*98*		*24 - 136*	*09/17/22 08:57*	*09/20/22 16:44*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 135*	*09/17/22 08:57*	*09/20/22 16:44*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-20F **Lab Sample ID: 570-110053-6**
Date Collected: 09/16/22 09:29 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:03	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:03	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:03	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:03	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:03	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:03	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:03	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*97*		*24 - 136*	*09/17/22 08:57*	*09/20/22 17:03*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 135*	*09/17/22 08:57*	*09/20/22 17:03*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-SW-20G **Lab Sample ID: 570-110053-7**
Date Collected: 09/16/22 09:29 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:22	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:22	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:22	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:22	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:22	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:22	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:22	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*93*		*24 - 136*	*09/17/22 08:57*	*09/20/22 17:22*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 135*	*09/17/22 08:57*	*09/20/22 17:22*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-20H **Lab Sample ID: 570-110053-8**
Date Collected: 09/16/22 09:33 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:40	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:40	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:40	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:40	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:40	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:40	1
Aroclor-1260	**570**		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:40	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:40	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*100*		*24 - 136*	*09/17/22 08:57*	*09/20/22 17:40*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*37 - 135*	*09/17/22 08:57*	*09/20/22 17:40*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-20I **Lab Sample ID: 570-110053-9**
Date Collected: 09/16/22 09:38 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:59	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:59	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:59	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:59	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:59	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:59	1
Aroclor-1260	**230**		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:59	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:59	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:57	09/20/22 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*97*		*24 - 136*	*09/17/22 08:57*	*09/20/22 17:59*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*37 - 135*	*09/17/22 08:57*	*09/20/22 17:59*	*1*

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

Client Sample ID: Unit-2-LT-20D **Lab Sample ID: 570-110053-20**
Date Collected: 09/16/22 10:52 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	09/17/22 08:57	09/21/22 13:51	1
Aroclor-1221	ND		100		ug/Kg	☼	09/17/22 08:57	09/21/22 13:51	1
Aroclor-1232	ND		100		ug/Kg	☼	09/17/22 08:57	09/21/22 13:51	1
Aroclor-1242	ND		100		ug/Kg	☼	09/17/22 08:57	09/21/22 13:51	1
Aroclor-1248	ND		100		ug/Kg	☼	09/17/22 08:57	09/21/22 13:51	1
Aroclor-1254	**570**		100		ug/Kg	☼	09/17/22 08:57	09/21/22 13:51	1
Aroclor-1260	ND		100		ug/Kg	☼	09/17/22 08:57	09/21/22 13:51	1
Aroclor-1262	ND		100		ug/Kg	☼	09/17/22 08:57	09/21/22 13:51	1
Aroclor-1268	ND		100		ug/Kg	☼	09/17/22 08:57	09/21/22 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*61*		*24 - 136*	*09/17/22 08:57*	*09/21/22 13:51*	*1*
DCB Decachlorobiphenyl (Surr)	*49*		*37 - 135*	*09/17/22 08:57*	*09/21/22 13:51*	*1*

Client Sample ID: Unit-2-LT-20E **Lab Sample ID: 570-110053-21**
Date Collected: 09/16/22 11:01 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	F1	100		ug/Kg	☼	09/17/22 09:01	09/20/22 12:11	1
Aroclor-1221	ND		100		ug/Kg	☼	09/17/22 09:01	09/20/22 12:11	1
Aroclor-1232	ND		100		ug/Kg	☼	09/17/22 09:01	09/20/22 12:11	1
Aroclor-1242	ND		100		ug/Kg	☼	09/17/22 09:01	09/20/22 12:11	1
Aroclor-1248	**120**		100		ug/Kg	☼	09/17/22 09:01	09/20/22 12:11	1
Aroclor-1260	**1500**	**F2 E**	100		ug/Kg	☼	09/17/22 09:01	09/20/22 12:11	1
Aroclor-1262	ND		100		ug/Kg	☼	09/17/22 09:01	09/20/22 12:11	1
Aroclor-1268	ND		100		ug/Kg	☼	09/17/22 09:01	09/20/22 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*46*		*24 - 136*	*09/17/22 09:01*	*09/20/22 12:11*	*1*
DCB Decachlorobiphenyl (Surr)	*42*		*37 - 135*	*09/17/22 09:01*	*09/20/22 12:11*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-SW-20A — **Lab Sample ID: 570-110053-1**
Date Collected: 09/16/22 08:40 — **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	1800		510		ug/Kg	☼	09/17/22 08:57	09/21/22 19:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*	*09/17/22 08:57*	*09/21/22 19:47*	*10*
DCB Decachlorobiphenyl (Surr)	*112*		*37 - 135*	*09/17/22 08:57*	*09/21/22 19:47*	*10*

Client Sample ID: Unit-2-SST-SO-W-SW-20B — **Lab Sample ID: 570-110053-2**
Date Collected: 09/16/22 09:07 — **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	260000		51000		ug/Kg	☼	09/17/22 08:57	09/21/22 17:36	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*94*		*24 - 136*	*09/17/22 08:57*	*09/21/22 17:36*	*1000*
DCB Decachlorobiphenyl (Surr)	*215*	*S1+*	*37 - 135*	*09/17/22 08:57*	*09/21/22 17:36*	*1000*

Client Sample ID: Unit-2-SST-SO-W-SW-20C — **Lab Sample ID: 570-110053-3**
Date Collected: 09/16/22 09:11 — **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	86000		5100		ug/Kg	☼	09/17/22 08:57	09/21/22 16:02	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*109*		*24 - 136*	*09/17/22 08:57*	*09/21/22 16:02*	*100*
DCB Decachlorobiphenyl (Surr)	*148*	*S1+*	*37 - 135*	*09/17/22 08:57*	*09/21/22 16:02*	*100*

Client Sample ID: Unit-2-SST-SO-W-SW-20D — **Lab Sample ID: 570-110053-4**
Date Collected: 09/16/22 09:16 — **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	560000		51000		ug/Kg	☼	09/17/22 08:57	09/21/22 17:54	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*87*		*24 - 136*	*09/17/22 08:57*	*09/21/22 17:54*	*1000*
DCB Decachlorobiphenyl (Surr)	*309*	*S1+*	*37 - 135*	*09/17/22 08:57*	*09/21/22 17:54*	*1000*

Client Sample ID: Unit-2-SST-SO-W-SW-20E — **Lab Sample ID: 570-110053-5**
Date Collected: 09/16/22 09:20 — **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	7100		500		ug/Kg	☼	09/17/22 08:57	09/21/22 16:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*92*		*24 - 136*	*09/17/22 08:57*	*09/21/22 16:39*	*10*
DCB Decachlorobiphenyl (Surr)	*111*		*37 - 135*	*09/17/22 08:57*	*09/21/22 16:39*	*10*

Client Sample ID: Unit-2-SST-SO-W-SW-20F — **Lab Sample ID: 570-110053-6**
Date Collected: 09/16/22 09:29 — **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	5800		510		ug/Kg	☼	09/17/22 08:57	09/21/22 16:58	10

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	106		24 - 136	09/17/22 08:57	09/21/22 16:58	10
DCB Decachlorobiphenyl (Surr)	133		37 - 135	09/17/22 08:57	09/21/22 16:58	10

Client Sample ID: Unit-2-SST-SO-W-SW-20G **Lab Sample ID: 570-110053-7**
Date Collected: 09/16/22 09:29 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	7600		1000		ug/Kg	☼	09/17/22 08:57	09/21/22 17:17	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	111		24 - 136	09/17/22 08:57	09/21/22 17:17	20
DCB Decachlorobiphenyl (Surr)	133		37 - 135	09/17/22 08:57	09/21/22 17:17	20

Client Sample ID: Unit-2-LT-20E **Lab Sample ID: 570-110053-21**
Date Collected: 09/16/22 11:01 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1254	4800		500		ug/Kg	☼	09/17/22 09:01	09/20/22 13:08	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	47		24 - 136	09/17/22 09:01	09/20/22 13:08	5
DCB Decachlorobiphenyl (Surr)	41		37 - 135	09/17/22 09:01	09/20/22 13:08	5

General Chemistry

Client Sample ID: Unit-2-SST-SO-W-SW-20A
Date Collected: 09/16/22 08:40
Date Received: 09/16/22 18:20
Lab Sample ID: 570-110053-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.6		0.1		%			09/19/22 13:20	1

Client Sample ID: Unit-2-SST-SO-W-SW-20B
Date Collected: 09/16/22 09:07
Date Received: 09/16/22 18:20
Lab Sample ID: 570-110053-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.5		0.1		%			09/19/22 13:20	1

Client Sample ID: Unit-2-SST-SO-W-SW-20C
Date Collected: 09/16/22 09:11
Date Received: 09/16/22 18:20
Lab Sample ID: 570-110053-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.5		0.1		%			09/19/22 13:20	1

Client Sample ID: Unit-2-SST-SO-W-SW-20D
Date Collected: 09/16/22 09:16
Date Received: 09/16/22 18:20
Lab Sample ID: 570-110053-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.5		0.1		%			09/19/22 13:20	1

Client Sample ID: Unit-2-SST-SO-W-SW-20E
Date Collected: 09/16/22 09:20
Date Received: 09/16/22 18:20
Lab Sample ID: 570-110053-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		0.1		%			09/19/22 13:20	1

Client Sample ID: Unit-2-SST-SO-W-SW-20F
Date Collected: 09/16/22 09:29
Date Received: 09/16/22 18:20
Lab Sample ID: 570-110053-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		0.1		%			09/19/22 13:20	1

Client Sample ID: Unit-2-SST-SO-W-SW-20G
Date Collected: 09/16/22 09:29
Date Received: 09/16/22 18:20
Lab Sample ID: 570-110053-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.6		0.1		%			09/19/22 13:20	1

Client Sample ID: Unit-2-SST-SO-W-SW-20H
Date Collected: 09/16/22 09:33
Date Received: 09/16/22 18:20
Lab Sample ID: 570-110053-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.3		0.1		%			09/19/22 13:20	1

Client Sample ID: Unit-2-SST-SO-W-SW-20I
Date Collected: 09/16/22 09:38
Date Received: 09/16/22 18:20
Lab Sample ID: 570-110053-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.3		0.1		%			09/19/22 13:20	1

General Chemistry

Client Sample ID: Unit-2-LT-20D **Lab Sample ID: 570-110053-20**
Date Collected: 09/16/22 10:52 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.4		0.1		%			09/19/22 13:24	1

Client Sample ID: Unit-2-LT-20E **Lab Sample ID: 570-110053-21**
Date Collected: 09/16/22 11:01 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.5		0.1		%			09/19/22 13:24	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110053-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-110053-1	Unit-2-SST-SO-W-SW-20A	98	96
570-110053-1 - DL	Unit-2-SST-SO-W-SW-20A	85	112
570-110053-2	Unit-2-SST-SO-W-SW-20B	99	105
570-110053-2 - DL	Unit-2-SST-SO-W-SW-20B	94	215 S1+
570-110053-3	Unit-2-SST-SO-W-SW-20C	97	96
570-110053-3 - DL	Unit-2-SST-SO-W-SW-20C	109	148 S1+
570-110053-4	Unit-2-SST-SO-W-SW-20D	103	125
570-110053-4 - DL	Unit-2-SST-SO-W-SW-20D	87	309 S1+
570-110053-5	Unit-2-SST-SO-W-SW-20E	98	91
570-110053-5 - DL	Unit-2-SST-SO-W-SW-20E	92	111
570-110053-6	Unit-2-SST-SO-W-SW-20F	97	92
570-110053-6 - DL	Unit-2-SST-SO-W-SW-20F	106	133
570-110053-7	Unit-2-SST-SO-W-SW-20G	93	93
570-110053-7 - DL	Unit-2-SST-SO-W-SW-20G	111	133
570-110053-8	Unit-2-SST-SO-W-SW-20H	100	99
570-110053-9	Unit-2-SST-SO-W-SW-20I	97	103
570-110053-20	Unit-2-LT-20D	61	49
570-110053-21 - DL	Unit-2-LT-20E	47	41
570-110053-21	Unit-2-LT-20E	46	42

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-265019/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265607 — **Prep Batch: 265019**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		09/17/22 08:57	09/20/22 14:33	1
Aroclor-1221	ND		50		ug/Kg		09/17/22 08:57	09/20/22 14:33	1
Aroclor-1232	ND		50		ug/Kg		09/17/22 08:57	09/20/22 14:33	1
Aroclor-1242	ND		50		ug/Kg		09/17/22 08:57	09/20/22 14:33	1
Aroclor-1248	ND		50		ug/Kg		09/17/22 08:57	09/20/22 14:33	1
Aroclor-1254	ND		50		ug/Kg		09/17/22 08:57	09/20/22 14:33	1
Aroclor-1260	ND		50		ug/Kg		09/17/22 08:57	09/20/22 14:33	1
Aroclor-1262	ND		50		ug/Kg		09/17/22 08:57	09/20/22 14:33	1
Aroclor-1268	ND		50		ug/Kg		09/17/22 08:57	09/20/22 14:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*92*		*24 - 136*	*09/17/22 08:57*	*09/20/22 14:33*	*1*
DCB Decachlorobiphenyl (Surr)	*118*		*37 - 135*	*09/17/22 08:57*	*09/20/22 14:33*	*1*

Lab Sample ID: LCS 570-265019/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265607 — **Prep Batch: 265019**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	103.5		ug/Kg		103	46 - 131
Aroclor-1260	100	133.3		ug/Kg		133	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*93*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*110*		*37 - 135*

Lab Sample ID: LCSD 570-265019/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 266099 — **Prep Batch: 265019**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	112.0		ug/Kg		112	46 - 131	8	32
Aroclor-1260	100	124.3		ug/Kg		124	40 - 150	7	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*93*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*116*		*37 - 135*

Lab Sample ID: 570-110053-1 MS — **Client Sample ID: Unit-2-SST-SO-W-SW-20A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265607 — **Prep Batch: 265019**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		102	107.5		ug/Kg	☼	105	29 - 174
Aroclor-1260	1500		102	1292	4	ug/Kg	☼	-184	20 - 180

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

Lab Sample ID: 570-110053-1 MS — **Client Sample ID: Unit-2-SST-SO-W-SW-20A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265607 — **Prep Batch: 265019**

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	91		24 - 136
DCB Decachlorobiphenyl (Surr)	93		37 - 135

Lab Sample ID: 570-110053-1 MSD — **Client Sample ID: Unit-2-SST-SO-W-SW-20A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265607 — **Prep Batch: 265019**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		102	111.4		ug/Kg	☼	109	29 - 174	4	40
Aroclor-1260	1500		102	1619	E 4	ug/Kg	☼	136	20 - 180	23	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	100		24 - 136
DCB Decachlorobiphenyl (Surr)	97		37 - 135

Lab Sample ID: MB 570-265021/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265607 — **Prep Batch: 265021**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1221	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1232	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1242	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1248	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1254	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1260	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1262	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1268	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	100		24 - 136	09/17/22 09:01	09/20/22 11:15	1
DCB Decachlorobiphenyl (Surr)	121		37 - 135	09/17/22 09:01	09/20/22 11:15	1

Lab Sample ID: LCS 570-265021/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265607 — **Prep Batch: 265021**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	97.79		ug/Kg		98	46 - 131
Aroclor-1260	100	100.2		ug/Kg		100	40 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	95		24 - 136
DCB Decachlorobiphenyl (Surr)	98		37 - 135

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

Lab Sample ID: LCSD 570-265021/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265607 — **Prep Batch: 265021**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			100	113.5		ug/Kg		113	46 - 131	15	32
Aroclor-1260			100	122.2		ug/Kg		122	40 - 150	20	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*98*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*113*		*37 - 135*

Lab Sample ID: 570-110053-21 MS — **Client Sample ID: Unit-2-LT-20E**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265607 — **Prep Batch: 265021**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND	F1	100	ND	F1	ug/Kg	☼	0	29 - 174
Aroclor-1260	1500	F2 E	100	1883	E 4	ug/Kg	☼	412	20 - 180

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*55*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*55*		*37 - 135*

Lab Sample ID: 570-110053-21 MSD — **Client Sample ID: Unit-2-LT-20E**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265607 — **Prep Batch: 265021**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND	F1	99.9	ND	F1	ug/Kg	☼	0	29 - 174	NC	40
Aroclor-1260	1500	F2 E	99.9	1108	4 F2	ug/Kg	☼	-364	20 - 180	52	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*41*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*33*	*S1-*	*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-110053-1 DU — **Client Sample ID: Unit-2-SST-SO-W-SW-20A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265372

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	2.6		2.7		%		0.8	10

Lab Sample ID: 570-110053-11 DU — **Client Sample ID: Unit-2-SST-SO-W-SW-20K**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265372

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	2.5		2.5		%		1	10

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 570-110053-14 DU **Client Sample ID: Unit-2-SST-SO-W-SW-20M-DUP**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 265374

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	2.0			2.0		%				3	10

QC Association Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110053-1

GC Semi VOA

Prep Batch: 265019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110053-1	Unit-2-SST-SO-W-SW-20A	Total/NA	Solid	3540C	
570-110053-1 - DL	Unit-2-SST-SO-W-SW-20A	Total/NA	Solid	3540C	
570-110053-2 - DL	Unit-2-SST-SO-W-SW-20B	Total/NA	Solid	3540C	
570-110053-2	Unit-2-SST-SO-W-SW-20B	Total/NA	Solid	3540C	
570-110053-3	Unit-2-SST-SO-W-SW-20C	Total/NA	Solid	3540C	
570-110053-3 - DL	Unit-2-SST-SO-W-SW-20C	Total/NA	Solid	3540C	
570-110053-4 - DL	Unit-2-SST-SO-W-SW-20D	Total/NA	Solid	3540C	
570-110053-4	Unit-2-SST-SO-W-SW-20D	Total/NA	Solid	3540C	
570-110053-5	Unit-2-SST-SO-W-SW-20E	Total/NA	Solid	3540C	
570-110053-5 - DL	Unit-2-SST-SO-W-SW-20E	Total/NA	Solid	3540C	
570-110053-6	Unit-2-SST-SO-W-SW-20F	Total/NA	Solid	3540C	
570-110053-6 - DL	Unit-2-SST-SO-W-SW-20F	Total/NA	Solid	3540C	
570-110053-7	Unit-2-SST-SO-W-SW-20G	Total/NA	Solid	3540C	
570-110053-7 - DL	Unit-2-SST-SO-W-SW-20G	Total/NA	Solid	3540C	
570-110053-8	Unit-2-SST-SO-W-SW-20H	Total/NA	Solid	3540C	
570-110053-9	Unit-2-SST-SO-W-SW-20I	Total/NA	Solid	3540C	
570-110053-20	Unit-2-LT-20D	Total/NA	Solid	3540C	

Prep Batch: 265021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110053-21	Unit-2-LT-20E	Total/NA	Solid	3540C	
570-110053-21 - DL	Unit-2-LT-20E	Total/NA	Solid	3540C	

Analysis Batch: 265607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110053-1	Unit-2-SST-SO-W-SW-20A	Total/NA	Solid	8082	265019
570-110053-2	Unit-2-SST-SO-W-SW-20B	Total/NA	Solid	8082	265019
570-110053-3	Unit-2-SST-SO-W-SW-20C	Total/NA	Solid	8082	265019
570-110053-4	Unit-2-SST-SO-W-SW-20D	Total/NA	Solid	8082	265019
570-110053-5	Unit-2-SST-SO-W-SW-20E	Total/NA	Solid	8082	265019
570-110053-6	Unit-2-SST-SO-W-SW-20F	Total/NA	Solid	8082	265019
570-110053-7	Unit-2-SST-SO-W-SW-20G	Total/NA	Solid	8082	265019
570-110053-8	Unit-2-SST-SO-W-SW-20H	Total/NA	Solid	8082	265019
570-110053-9	Unit-2-SST-SO-W-SW-20I	Total/NA	Solid	8082	265019
570-110053-21	Unit-2-LT-20E	Total/NA	Solid	8082	265021
570-110053-21 - DL	Unit-2-LT-20E	Total/NA	Solid	8082	265021

Analysis Batch: 266099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110053-1 - DL	Unit-2-SST-SO-W-SW-20A	Total/NA	Solid	8082	265019
570-110053-2 - DL	Unit-2-SST-SO-W-SW-20B	Total/NA	Solid	8082	265019
570-110053-3 - DL	Unit-2-SST-SO-W-SW-20C	Total/NA	Solid	8082	265019
570-110053-4 - DL	Unit-2-SST-SO-W-SW-20D	Total/NA	Solid	8082	265019
570-110053-5 - DL	Unit-2-SST-SO-W-SW-20E	Total/NA	Solid	8082	265019
570-110053-6 - DL	Unit-2-SST-SO-W-SW-20F	Total/NA	Solid	8082	265019
570-110053-7 - DL	Unit-2-SST-SO-W-SW-20G	Total/NA	Solid	8082	265019
570-110053-20	Unit-2-LT-20D	Total/NA	Solid	8082	265019

QC Association Summary

Client: Roux Associates, Inc.
Job ID: 570-110053-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

General Chemistry

Analysis Batch: 265372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110053-1	Unit-2-SST-SO-W-SW-20A	Total/NA	Solid	Moisture	
570-110053-2	Unit-2-SST-SO-W-SW-20B	Total/NA	Solid	Moisture	
570-110053-3	Unit-2-SST-SO-W-SW-20C	Total/NA	Solid	Moisture	
570-110053-4	Unit-2-SST-SO-W-SW-20D	Total/NA	Solid	Moisture	
570-110053-5	Unit-2-SST-SO-W-SW-20E	Total/NA	Solid	Moisture	
570-110053-6	Unit-2-SST-SO-W-SW-20F	Total/NA	Solid	Moisture	
570-110053-7	Unit-2-SST-SO-W-SW-20G	Total/NA	Solid	Moisture	
570-110053-8	Unit-2-SST-SO-W-SW-20H	Total/NA	Solid	Moisture	
570-110053-9	Unit-2-SST-SO-W-SW-20I	Total/NA	Solid	Moisture	

Analysis Batch: 265374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110053-20	Unit-2-LT-20D	Total/NA	Solid	Moisture	
570-110053-21	Unit-2-LT-20E	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110053-1

Client Sample ID: Unit-2-SST-SO-W-SW-20A

Lab Sample ID: 570-110053-1
Date Collected: 09/16/22 08:40
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.21 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265607	09/20/22 15:29	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		20.21 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL
Total/NA	Analysis	8082	DL	10	1 mL	1 mL	266099	09/21/22 19:47	UJ3K	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265372	09/19/22 13:20	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-20B

Lab Sample ID: 570-110053-2
Date Collected: 09/16/22 09:07
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.29 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265607	09/20/22 15:48	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		20.29 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL
Total/NA	Analysis	8082	DL	1000	1 mL	1 mL	266099	09/21/22 17:36	UJ3K	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265372	09/19/22 13:20	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-20C

Lab Sample ID: 570-110053-3
Date Collected: 09/16/22 09:11
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.21 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265607	09/20/22 16:07	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		20.21 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL
Total/NA	Analysis	8082	DL	100	1 mL	1 mL	266099	09/21/22 16:02	UJ3K	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265372	09/19/22 13:20	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-20D

Lab Sample ID: 570-110053-4
Date Collected: 09/16/22 09:16
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.04 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265607	09/20/22 16:25	AJ2Q	EET CAL
	Instrument ID: GC64A									

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110053-1

Client Sample ID: Unit-2-SST-SO-W-SW-20D

Lab Sample ID: 570-110053-4

Date Collected: 09/16/22 09:16
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		20.04 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	1000	1 mL	1 mL	266099	09/21/22 17:54	UJ3K	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265372	09/19/22 13:20	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-20E

Lab Sample ID: 570-110053-5

Date Collected: 09/16/22 09:20
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.26 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265607	09/20/22 16:44	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		20.26 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL
Total/NA	Analysis	8082	DL	10	1 mL	1 mL	266099	09/21/22 16:39	UJ3K	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265372	09/19/22 13:20	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-20F

Lab Sample ID: 570-110053-6

Date Collected: 09/16/22 09:29
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.08 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265607	09/20/22 17:03	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		20.08 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL
Total/NA	Analysis	8082	DL	10	1 mL	1 mL	266099	09/21/22 16:58	UJ3K	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265372	09/19/22 13:20	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-20G

Lab Sample ID: 570-110053-7

Date Collected: 09/16/22 09:29
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.20 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265607	09/20/22 17:22	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		20.20 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL
Total/NA	Analysis	8082	DL	20	1 mL	1 mL	266099	09/21/22 17:17	UJ3K	EET CAL
	Instrument ID: GC64A									

Client Sample ID: Unit-2-SST-SO-W-SW-20G
Lab Sample ID: 570-110053-7
Date Collected: 09/16/22 09:29 **Matrix: Solid**
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			265372	09/19/22 13:20	B4QL	EET CAL 4

Client Sample ID: Unit-2-SST-SO-W-SW-20H
Lab Sample ID: 570-110053-8
Date Collected: 09/16/22 09:33 **Matrix: Solid**
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.06 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265607	09/20/22 17:40	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265372	09/19/22 13:20	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-20I
Lab Sample ID: 570-110053-9
Date Collected: 09/16/22 09:38 **Matrix: Solid**
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.26 g	10 mL	265019	09/17/22 08:57	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265607	09/20/22 17:59	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265372	09/19/22 13:20	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-20D
Lab Sample ID: 570-110053-20
Date Collected: 09/16/22 10:52 **Matrix: Solid**
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.10 g	20 mL	265019	09/17/22 08:57	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	266099	09/21/22 13:51	UJ3K	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265374	09/19/22 13:24	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-LT-20E
Lab Sample ID: 570-110053-21
Date Collected: 09/16/22 11:01 **Matrix: Solid**
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.07 g	20 mL	265021	09/17/22 09:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265607	09/20/22 12:11	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		20.07 g	20 mL	265021	09/17/22 09:01	USUL	EET CAL
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	265607	09/20/22 13:08	AJ2Q	EET CAL
	Instrument ID: GC64A									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-110053-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-20E
Lab Sample ID: 570-110053-21
Date Collected: 09/16/22 11:01
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			265374	09/19/22 13:24	B4QL	EET CAL 4

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-110053-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc. Job ID: 570-110053-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110053-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-110053-1	Unit-2-SST-SO-W-SW-20A	Solid	09/16/22 08:40	09/16/22 18:20
570-110053-2	Unit-2-SST-SO-W-SW-20B	Solid	09/16/22 09:07	09/16/22 18:20
570-110053-3	Unit-2-SST-SO-W-SW-20C	Solid	09/16/22 09:11	09/16/22 18:20
570-110053-4	Unit-2-SST-SO-W-SW-20D	Solid	09/16/22 09:16	09/16/22 18:20
570-110053-5	Unit-2-SST-SO-W-SW-20E	Solid	09/16/22 09:20	09/16/22 18:20
570-110053-6	Unit-2-SST-SO-W-SW-20F	Solid	09/16/22 09:29	09/16/22 18:20
570-110053-7	Unit-2-SST-SO-W-SW-20G	Solid	09/16/22 09:29	09/16/22 18:20
570-110053-8	Unit-2-SST-SO-W-SW-20H	Solid	09/16/22 09:33	09/16/22 18:20
570-110053-9	Unit-2-SST-SO-W-SW-20I	Solid	09/16/22 09:38	09/16/22 18:20
570-110053-20	Unit-2-LT-20D	Solid	09/16/22 10:52	09/16/22 18:20
570-110053-21	Unit-2-LT-20E	Solid	09/16/22 11:01	09/16/22 18:20

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WO # / LAB USE ONLY

DATE: 9-16-22

PAGE: 1 OF 3

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653.0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	P.O. NO.:
CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com	SAMPLER(S): (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
- ECI # 57008787
- Report results in dry-weight basis

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) GRO	TPH(d) DRO	TPH C6-C36 C6-C44	TPH	BTEX / MTBE 8260	VOCs (8260)	Oxygenates (8260)	Prep (5035) En Core Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) 13540C	PAHs 8270 8270 SIM	T22 Metals 6010/747X 6020/747X	Cr(VI) 7196 7199 218.6	Moisture
	Unit-2-SST_SO-W-SW-20A	9-16-22	0840	S	1	X													X				X
	Unit-2-SST_SO-W-SW-20B		0907																				
	Unit-2-SST_SO-W-SW-20C		0911																				
	Unit-2-SST_SO-W-SW-20D		0916																				
	Unit-2-SST_SO-W-SW-20E		0920																				
	Unit-2-SST_SO-W-SW-20F		0924																				
	Unit-2-SST_SO-W-SW-20G		0929																				
	Unit-2-SST_SO-W-SW-20H		0933																				
	Unit-2-SST_SO-W-SW-20I		0938																				
	Unit-2-SST_SO-W-SW-20J		0942																				

Please hold reporting for the highlighted samples

MSW

Relinquished by: (Signature) Daniel Zaragoza	Received by: (Signature/Affiliation)	Date: 9-16-22	Time: 345 pm
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

Amended COC received from Matthew Nelson (Roux) on 09/20/2022 at 16:44pm.
- Virendra (ECI)
ECI Job#: 570-110053

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 9-16-22

PAGE: 2 OF 3

LABORATORY CLIENT: Roux Associates, Inc

ADDRESS: 5150 Pacific Coast Hwy, Suite 450

CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804

TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653.0001L000

P.O. NO.:

PROJECT CONTACT: Matthew Nelson / Mark Nishbayashi

SAMPLER(S): (PRINT) Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
- ECI # 570-110053
- Report results in dry-weight basis

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) GRO	TPH(d) DRO	TPH C6-C35 C6-C44	TPH ____	BTEX / MTBE 8260	VOCs (8260)	Oxygenates (8260)	Prep (5035) En Core Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) 1354OC	PAHs 8270 8270 SIM	T22 Metals 6010/747X 6020/747X	Cr(VI) 7196 7199 218.6	moisture
	Unit-2-SST_SO-W-SW-20K	9-16-22	0947	S	1	X													X				X
	Unit-2-SST_SO-W-SW-20L		0952																				
	Unit-2-SST_SO-W-SW-20M		1004																				
	Unit-2-SST_SO-W-SW-20M-DUP		1004																				
	Unit-2-SST_SO-W-SW-20N		1010																				
	Unit-2-LT-20A		1025																				
	Unit-2-LT-20A-DUP		1025																				
	Unit-2-LT-20B		1035																				
	Unit-2-LT-20C		1045																				
	Unit-2-LT-20D		1052																				

Please hold reporting for the highlighted samples

Relinquished by (Signature): Daniel Zaragoza	Received by (Signature/Affiliation):	Date: 9-16-22	Time: 3115pm
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:

Amended COC received from Matthew Nelson (Roux) on 09/20/2022 at 16:44pm.
- Virendra (ECI)
ECI Job#: 570-110053

06/02/14 Revision

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570-110053 Chain of Custody

110053

CHAIN OF CUSTODY RECORD

DATE 9-16-22

PAGE 1 OF 3

LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	PO NO:
CITY: Long Beach CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc com / dzaragoza@rouxinc com / mnishibayashi@rouxinc com	SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

- EDF # 570008787
- Report results in dry-weight basis

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH _____	BTEX / MTBE ☐ 8260 ☐ _____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) 1335.0	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture
1	Unit-2-SST_SO-W-SW-20A	9-16-22	0840	S	1	X													X				X
2	Unit-2-SST_SO-W-SW-20B		0907																				
3	Unit-2-SST_SO-W-SW-20C		0911																				
4	Unit-2-SST_SO-W-SW-20D		0916																				
5	Unit-2-SST_SO-W-SW-20E		0920																				
6	Unit-2-SST_SO-W-SW-20F		0924																				
7	Unit-2-SST_SO-W-SW-20G		0929																				
8	Unit-2-SST_SO-W-SW-20H		0933																				
9	Unit-2-SST_SO-W-SW-20I		0938																				
10	Unit-2-SST_SO-W-SW-20J		0942																				

Relinquished by (Signature): Daniel Zaragoza	Received by (Signature/Affiliation):	Date: 9-16-22	Time: 3:15 pm
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date: 9/16/22	Time: 1820
Relinquished by (Signature):	Received by (Signature/Affiliation): AED 9/16/2022	Date:	Time:

5.0/5.0 R2

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CHAIN OF CUSTODY RECORD

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DATE 9-16-22

PAGE. 2 OF 3

LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	PO NO
CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312	SAMPLER(S) (PRINT): Daniel Zaragoza
E-MAIL: mnelson@rouxinc com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc com	

TURNAROUND TIME (Rush surcharges may apply to any TAT not STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

- ECI # 57008787
- Report results in dry-weight basis

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) 13540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Moisture			
11	Unit-2-SST_SO-W-SW-20K	9-16-22	0947	S	1	X													X				X			
12	Unit-2-SST_SO-W-SW-20L		0952																							
13	Unit-2-SST_SO-W-SW-20M		1004																							
14	Unit-2-SST_SO-W-SW-20M-DUP		1004																							
15	Unit-2-SST_SO-W-SW-20N		1010																							
16	Unit-2-LT-20A		1025																							
17	Unit-2-LT-20A-DUP		1025																							
18	Unit-2-LT-20B		1035																							
19	Unit-2-LT-20C		1045																							
20	Unit-2-LT-20D		1052																							

Relinquished by (Signature) Daniel Zaragoza	Received by (Signature/Affiliation)	Date 9-16-22	Time 3115PM
Relinquished by (Signature)	Received by (Signature/Affiliation) EC	Date 9/16/22	Time 1820
Relinquished by (Signature)	Received by Signature/Affiliation) ACP 9/16/22 5.0/5.0 SCM	Date	Time

06/02/14 Revision

110055

Eurofins Calscience
2841 Dow Ave Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

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Client Information	Sampler: Daniel Zaragoza	Lab PM	Carrier Tracking No(s).	COC No:
Client Contact: Matthew Nelson, Mark N.	Phone: (818) 726-4265	E-Mail: mnelson@rouxinc.com		Page: 3 of 3
Company:				Job #:

Address: 5150 Pacific Coast Hwy #450	Due Date Requested:	Analysis Requested	Preservation Codes
City: Long Beach	TAT Requested (days): 72-hr		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: CA 90804			
Phone:	PO #:		
Email:	WO #:		
Project Name: Edwards Commerce Ctr.	Project #: 3653.0001L		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs (8082) / 8540C	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:							- ECI # 570087 87 - Report in dry weight basis
Unit-2-LT-20E	9-16-22	1101	G	S			X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III, IV, Other (specify)

Special Instructions/QC Requirements

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Daniel Zaragoza	9-16-22	Roux		9/16/22 / 3:15PM	DSS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/16/22			9/16/22 1820	EC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 5.0/5.0 Sur
		ACP 9-16-22

Ver: 01/16/2019

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Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-110053-1

Login Number: 110053

List Source: Eurofins Calscience

List Number: 1

Creator: Patel, Virendra

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-110054-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
9/22/2022 12:40:22 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

Review your project results through my EOL

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-110054-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Job ID: 570-110054-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-110054-1

Comments
No additional comments.

Receipt
The samples were received on 9/16/2022 6:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.0º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received. No total number of containers listed for any of the samples.

Insufficient sample volume was provided for the following sample for the Percent Moisture analysis: Unit-1/2-RT-A (570-110054-1).

The clients office was notified on 09/19/2022 via e-mail, see COC section of the report for details.

GC Semi VOA
Method 8082: Surrogate recovery for the following sample was outside control limits: Unit-1/2-RT-D (570-110054-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: Surrogate recovery for the following sample was outside control limits: (570-110053-A-21-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: Surrogate recovery for the following sample was outside control limits: Unit-2-SST-F (570-110054-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: Due to the high concentration of Aroclor-1260, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-265020 and analytical batch 570-265181 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-265020 and analytical batch 570-265181 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110054-1

Client Sample ID: Unit-1/2-RT-A — Lab Sample ID: 570-110054-1

No Detections.

Client Sample ID: Unit-1/2-RT-B — Lab Sample ID: 570-110054-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1400		250		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-1/2-RT-C — Lab Sample ID: 570-110054-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	120		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-1/2-RT-D — Lab Sample ID: 570-110054-4

No Detections.

Client Sample ID: Unit-1/2-RT-E — Lab Sample ID: 570-110054-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	3700		250		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-1/2-RT-F — Lab Sample ID: 570-110054-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1400		250		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-1/2-RT-SO-A — Lab Sample ID: 570-110054-7

No Detections.

Client Sample ID: Unit-1/2-RT-SO-B — Lab Sample ID: 570-110054-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	2100		250		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-1/2-RT-SO-B-DUP — Lab Sample ID: 570-110054-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1900		250		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-A — Lab Sample ID: 570-110054-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	320		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-B — Lab Sample ID: 570-110054-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	450		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-C — Lab Sample ID: 570-110054-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	320		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-D — Lab Sample ID: 570-110054-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	520		51		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110054-1

Client Sample ID: Unit-2-SST-E — Lab Sample ID: 570-110054-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	360		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-F — Lab Sample ID: 570-110054-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL2	230000		25000		ug/Kg	500	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-S0-W-A — Lab Sample ID: 570-110054-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	300		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-S0-W-B — Lab Sample ID: 570-110054-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	810		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-S0-W-C — Lab Sample ID: 570-110054-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	320		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-S0-W-S1-10A — Lab Sample ID: 570-110054-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	110		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-S0-W-S1-10B — Lab Sample ID: 570-110054-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	160		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-S0-W-S1-10C — Lab Sample ID: 570-110054-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	230		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-S0-W-S1-10C-DUP — Lab Sample ID: 570-110054-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	200		50		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: Unit-1/2-RT-A **Lab Sample ID: 570-110054-1**
Date Collected: 09/16/22 11:47 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		09/17/22 08:59	09/19/22 16:32	1
Aroclor-1221	ND		50		ug/Kg		09/17/22 08:59	09/19/22 16:32	1
Aroclor-1232	ND		50		ug/Kg		09/17/22 08:59	09/19/22 16:32	1
Aroclor-1242	ND		50		ug/Kg		09/17/22 08:59	09/19/22 16:32	1
Aroclor-1248	ND		50		ug/Kg		09/17/22 08:59	09/19/22 16:32	1
Aroclor-1254	ND		50		ug/Kg		09/17/22 08:59	09/19/22 16:32	1
Aroclor-1260	ND	F1	50		ug/Kg		09/17/22 08:59	09/19/22 16:32	1
Aroclor-1262	ND		50		ug/Kg		09/17/22 08:59	09/19/22 16:32	1
Aroclor-1268	ND		50		ug/Kg		09/17/22 08:59	09/19/22 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*42*		*24 - 136*	*09/17/22 08:59*	*09/19/22 16:32*	*1*
DCB Decachlorobiphenyl (Surr)	*43*		*37 - 135*	*09/17/22 08:59*	*09/19/22 16:32*	*1*

Client Sample ID: Unit-1/2-RT-B **Lab Sample ID: 570-110054-2**
Date Collected: 09/16/22 12:41 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 16:53	1
Aroclor-1221	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 16:53	1
Aroclor-1232	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 16:53	1
Aroclor-1242	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 16:53	1
Aroclor-1248	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 16:53	1
Aroclor-1254	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 16:53	1
Aroclor-1262	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 16:53	1
Aroclor-1268	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*39*		*24 - 136*	*09/17/22 08:59*	*09/19/22 16:53*	*1*
DCB Decachlorobiphenyl (Surr)	*37*		*37 - 135*	*09/17/22 08:59*	*09/19/22 16:53*	*1*

Client Sample ID: Unit-1/2-RT-C **Lab Sample ID: 570-110054-3**
Date Collected: 09/16/22 12:45 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:14	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:14	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:14	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:14	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:14	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:14	1
Aroclor-1260	**120**		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:14	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:14	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*63*		*24 - 136*	*09/17/22 08:59*	*09/19/22 17:14*	*1*
DCB Decachlorobiphenyl (Surr)	*53*		*37 - 135*	*09/17/22 08:59*	*09/19/22 17:14*	*1*

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

Client Sample ID: Unit-1/2-RT-E
Date Collected: 09/16/22 12:51
Date Received: 09/16/22 18:20
Lab Sample ID: 570-110054-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:57	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:57	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:57	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:57	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:57	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:57	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:57	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*87*		*24 - 136*	*09/17/22 08:59*	*09/19/22 17:57*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*37 - 135*	*09/17/22 08:59*	*09/19/22 17:57*	*1*

Client Sample ID: Unit-1/2-RT-SO-A
Date Collected: 09/16/22 12:59
Date Received: 09/16/22 18:20
Lab Sample ID: 570-110054-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 18:40	1
Aroclor-1221	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 18:40	1
Aroclor-1232	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 18:40	1
Aroclor-1242	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 18:40	1
Aroclor-1248	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 18:40	1
Aroclor-1254	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 18:40	1
Aroclor-1260	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 18:40	1
Aroclor-1262	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 18:40	1
Aroclor-1268	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*102*		*24 - 136*	*09/17/22 08:59*	*09/19/22 18:40*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 135*	*09/17/22 08:59*	*09/19/22 18:40*	*1*

Client Sample ID: Unit-2-SST-A
Date Collected: 09/16/22 13:08
Date Received: 09/16/22 18:20
Lab Sample ID: 570-110054-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 19:43	1
Aroclor-1221	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 19:43	1
Aroclor-1232	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 19:43	1
Aroclor-1242	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 19:43	1
Aroclor-1248	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 19:43	1
Aroclor-1254	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 19:43	1
Aroclor-1260	**320**		50		ug/Kg	☼	09/17/22 08:59	09/19/22 19:43	1
Aroclor-1262	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 19:43	1
Aroclor-1268	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*63*		*24 - 136*	*09/17/22 08:59*	*09/19/22 19:43*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*37 - 135*	*09/17/22 08:59*	*09/19/22 19:43*	*1*

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

Client Sample ID: Unit-2-SST-B
Date Collected: 09/16/22 13:17
Date Received: 09/16/22 18:20

Lab Sample ID: 570-110054-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 20:05	1
Aroclor-1221	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 20:05	1
Aroclor-1232	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 20:05	1
Aroclor-1242	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 20:05	1
Aroclor-1248	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 20:05	1
Aroclor-1254	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 20:05	1
Aroclor-1260	**450**		50		ug/Kg	☼	09/17/22 08:59	09/19/22 20:05	1
Aroclor-1262	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 20:05	1
Aroclor-1268	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*79*		*24 - 136*	*09/17/22 08:59*	*09/19/22 20:05*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*37 - 135*	*09/17/22 08:59*	*09/19/22 20:05*	*1*

Client Sample ID: Unit-2-SST-C
Date Collected: 09/16/22 13:21
Date Received: 09/16/22 18:20

Lab Sample ID: 570-110054-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:26	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:26	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:26	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:26	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:26	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:26	1
Aroclor-1260	**320**		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:26	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:26	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*90*		*24 - 136*	*09/17/22 08:59*	*09/19/22 20:26*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*37 - 135*	*09/17/22 08:59*	*09/19/22 20:26*	*1*

Client Sample ID: Unit-2-SST-D
Date Collected: 09/16/22 13:25
Date Received: 09/16/22 18:20

Lab Sample ID: 570-110054-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:47	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:47	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:47	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:47	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:47	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:47	1
Aroclor-1260	**520**		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:47	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:47	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*91*		*24 - 136*	*09/17/22 08:59*	*09/19/22 20:47*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*37 - 135*	*09/17/22 08:59*	*09/19/22 20:47*	*1*

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

Client Sample ID: Unit-2-SST-E **Lab Sample ID: 570-110054-14**
Date Collected: 09/16/22 13:28 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 21:09	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 21:09	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 21:09	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 21:09	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 21:09	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 21:09	1
Aroclor-1260	**360**		51		ug/Kg	☼	09/17/22 08:59	09/19/22 21:09	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 21:09	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*90*		*24 - 136*	*09/17/22 08:59*	*09/19/22 21:09*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*37 - 135*	*09/17/22 08:59*	*09/19/22 21:09*	*1*

Client Sample ID: Unit-2-SST-S0-W-A **Lab Sample ID: 570-110054-16**
Date Collected: 09/16/22 13:38 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 22:55	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 22:55	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 22:55	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 22:55	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 22:55	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 22:55	1
Aroclor-1260	**300**		51		ug/Kg	☼	09/17/22 08:59	09/19/22 22:55	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 22:55	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*	*09/17/22 08:59*	*09/19/22 22:55*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 135*	*09/17/22 08:59*	*09/19/22 22:55*	*1*

Client Sample ID: Unit-2-SST-S0-W-B **Lab Sample ID: 570-110054-17**
Date Collected: 09/16/22 13:41 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:16	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:16	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:16	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:16	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:16	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:16	1
Aroclor-1260	**810**		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:16	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:16	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*96*		*24 - 136*	*09/17/22 08:59*	*09/19/22 23:16*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*37 - 135*	*09/17/22 08:59*	*09/19/22 23:16*	*1*

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

Client Sample ID: Unit-2-SST-S0-W-C **Lab Sample ID: 570-110054-18**
Date Collected: 09/16/22 13:44 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 23:59	1
Aroclor-1221	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 23:59	1
Aroclor-1232	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 23:59	1
Aroclor-1242	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 23:59	1
Aroclor-1248	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 23:59	1
Aroclor-1254	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 23:59	1
Aroclor-1260	**320**		50		ug/Kg	☼	09/17/22 08:59	09/19/22 23:59	1
Aroclor-1262	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 23:59	1
Aroclor-1268	ND		50		ug/Kg	☼	09/17/22 08:59	09/19/22 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*87*		*24 - 136*	*09/17/22 08:59*	*09/19/22 23:59*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*37 - 135*	*09/17/22 08:59*	*09/19/22 23:59*	*1*

Client Sample ID: Unit-2-SST-S0-W-S1-10A **Lab Sample ID: 570-110054-19**
Date Collected: 09/16/22 13:50 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/17/22 08:59	09/20/22 00:20	1
Aroclor-1221	ND		50		ug/Kg	☼	09/17/22 08:59	09/20/22 00:20	1
Aroclor-1232	ND		50		ug/Kg	☼	09/17/22 08:59	09/20/22 00:20	1
Aroclor-1242	ND		50		ug/Kg	☼	09/17/22 08:59	09/20/22 00:20	1
Aroclor-1248	ND		50		ug/Kg	☼	09/17/22 08:59	09/20/22 00:20	1
Aroclor-1254	ND		50		ug/Kg	☼	09/17/22 08:59	09/20/22 00:20	1
Aroclor-1260	**110**		50		ug/Kg	☼	09/17/22 08:59	09/20/22 00:20	1
Aroclor-1262	ND		50		ug/Kg	☼	09/17/22 08:59	09/20/22 00:20	1
Aroclor-1268	ND		50		ug/Kg	☼	09/17/22 08:59	09/20/22 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*91*		*24 - 136*	*09/17/22 08:59*	*09/20/22 00:20*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*37 - 135*	*09/17/22 08:59*	*09/20/22 00:20*	*1*

Client Sample ID: Unit-2-SST-S0-W-S1-10B **Lab Sample ID: 570-110054-20**
Date Collected: 09/16/22 13:53 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:38	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:38	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:38	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:38	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:38	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:38	1
Aroclor-1260	**160**		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:38	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:38	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 08:59	09/19/22 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*89*		*24 - 136*	*09/17/22 08:59*	*09/19/22 23:38*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*37 - 135*	*09/17/22 08:59*	*09/19/22 23:38*	*1*

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

Client Sample ID: Unit-2-SST-S0-W-S1-10C **Lab Sample ID: 570-110054-21**
Date Collected: 09/16/22 13:58 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/17/22 09:01	09/20/22 12:30	1
Aroclor-1221	ND		51		ug/Kg	☼	09/17/22 09:01	09/20/22 12:30	1
Aroclor-1232	ND		51		ug/Kg	☼	09/17/22 09:01	09/20/22 12:30	1
Aroclor-1242	ND		51		ug/Kg	☼	09/17/22 09:01	09/20/22 12:30	1
Aroclor-1248	ND		51		ug/Kg	☼	09/17/22 09:01	09/20/22 12:30	1
Aroclor-1254	ND		51		ug/Kg	☼	09/17/22 09:01	09/20/22 12:30	1
Aroclor-1260	**230**		51		ug/Kg	☼	09/17/22 09:01	09/20/22 12:30	1
Aroclor-1262	ND		51		ug/Kg	☼	09/17/22 09:01	09/20/22 12:30	1
Aroclor-1268	ND		51		ug/Kg	☼	09/17/22 09:01	09/20/22 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*90*		*24 - 136*	*09/17/22 09:01*	*09/20/22 12:30*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*37 - 135*	*09/17/22 09:01*	*09/20/22 12:30*	*1*

Client Sample ID: Unit-2-SST-S0-W-S1-10C-DUP **Lab Sample ID: 570-110054-22**
Date Collected: 09/16/22 13:58 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/17/22 09:01	09/20/22 12:49	1
Aroclor-1221	ND		50		ug/Kg	☼	09/17/22 09:01	09/20/22 12:49	1
Aroclor-1232	ND		50		ug/Kg	☼	09/17/22 09:01	09/20/22 12:49	1
Aroclor-1242	ND		50		ug/Kg	☼	09/17/22 09:01	09/20/22 12:49	1
Aroclor-1248	ND		50		ug/Kg	☼	09/17/22 09:01	09/20/22 12:49	1
Aroclor-1254	ND		50		ug/Kg	☼	09/17/22 09:01	09/20/22 12:49	1
Aroclor-1260	**200**		50		ug/Kg	☼	09/17/22 09:01	09/20/22 12:49	1
Aroclor-1262	ND		50		ug/Kg	☼	09/17/22 09:01	09/20/22 12:49	1
Aroclor-1268	ND		50		ug/Kg	☼	09/17/22 09:01	09/20/22 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*	*09/17/22 09:01*	*09/20/22 12:49*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*37 - 135*	*09/17/22 09:01*	*09/20/22 12:49*	*1*

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

Client Sample ID: Unit-1/2-RT-B **Lab Sample ID: 570-110054-2**
Date Collected: 09/16/22 12:41 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**1400**		250		ug/Kg	☼	09/17/22 08:59	09/20/22 08:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*39*		*24 - 136*	*09/17/22 08:59*	*09/20/22 08:54*	*5*
DCB Decachlorobiphenyl (Surr)	*42*		*37 - 135*	*09/17/22 08:59*	*09/20/22 08:54*	*5*

Client Sample ID: Unit-1/2-RT-E **Lab Sample ID: 570-110054-5**
Date Collected: 09/16/22 12:51 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**3700**		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*	*09/17/22 08:59*	*09/20/22 09:15*	*5*
DCB Decachlorobiphenyl (Surr)	*90*		*37 - 135*	*09/17/22 08:59*	*09/20/22 09:15*	*5*

Client Sample ID: Unit-1/2-RT-F **Lab Sample ID: 570-110054-6**
Date Collected: 09/16/22 12:54 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:36	5
Aroclor-1221	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:36	5
Aroclor-1232	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:36	5
Aroclor-1242	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:36	5
Aroclor-1248	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:36	5
Aroclor-1254	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:36	5
Aroclor-1260	**1400**		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:36	5
Aroclor-1262	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:36	5
Aroclor-1268	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*89*		*24 - 136*	*09/17/22 08:59*	*09/20/22 09:36*	*5*
DCB Decachlorobiphenyl (Surr)	*90*		*37 - 135*	*09/17/22 08:59*	*09/20/22 09:36*	*5*

Client Sample ID: Unit-1/2-RT-SO-B **Lab Sample ID: 570-110054-8**
Date Collected: 09/16/22 13:02 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:58	5
Aroclor-1221	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:58	5
Aroclor-1232	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:58	5
Aroclor-1242	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:58	5
Aroclor-1248	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:58	5
Aroclor-1254	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:58	5
Aroclor-1260	**2100**		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:58	5
Aroclor-1262	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:58	5
Aroclor-1268	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 09:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*88*		*24 - 136*	*09/17/22 08:59*	*09/20/22 09:58*	*5*
DCB Decachlorobiphenyl (Surr)	*73*		*37 - 135*	*09/17/22 08:59*	*09/20/22 09:58*	*5*

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

Client Sample ID: Unit-1/2-RT-SO-B-DUP **Lab Sample ID: 570-110054-9**
Date Collected: 09/16/22 13:02 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 10:19	5
Aroclor-1221	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 10:19	5
Aroclor-1232	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 10:19	5
Aroclor-1242	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 10:19	5
Aroclor-1248	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 10:19	5
Aroclor-1254	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 10:19	5
Aroclor-1260	**1900**		250		ug/Kg	☼	09/17/22 08:59	09/20/22 10:19	5
Aroclor-1262	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 10:19	5
Aroclor-1268	ND		250		ug/Kg	☼	09/17/22 08:59	09/20/22 10:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*84*		*24 - 136*	*09/17/22 08:59*	*09/20/22 10:19*	*5*
DCB Decachlorobiphenyl (Surr)	*70*		*37 - 135*	*09/17/22 08:59*	*09/20/22 10:19*	*5*

Client Sample ID: Unit-2-SST-F **Lab Sample ID: 570-110054-15**
Date Collected: 09/16/22 13:32 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		2500		ug/Kg	☼	09/17/22 08:59	09/20/22 10:40	50
Aroclor-1221	ND		2500		ug/Kg	☼	09/17/22 08:59	09/20/22 10:40	50
Aroclor-1232	ND		2500		ug/Kg	☼	09/17/22 08:59	09/20/22 10:40	50
Aroclor-1242	ND		2500		ug/Kg	☼	09/17/22 08:59	09/20/22 10:40	50
Aroclor-1248	ND		2500		ug/Kg	☼	09/17/22 08:59	09/20/22 10:40	50
Aroclor-1254	ND		2500		ug/Kg	☼	09/17/22 08:59	09/20/22 10:40	50
Aroclor-1262	ND		2500		ug/Kg	☼	09/17/22 08:59	09/20/22 10:40	50
Aroclor-1268	ND		2500		ug/Kg	☼	09/17/22 08:59	09/20/22 10:40	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*108*		*24 - 136*	*09/17/22 08:59*	*09/20/22 10:40*	*50*
DCB Decachlorobiphenyl (Surr)	*141*	*S1+*	*37 - 135*	*09/17/22 08:59*	*09/20/22 10:40*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL2

Client Sample ID: Unit-2-SST-F **Lab Sample ID: 570-110054-15**
Date Collected: 09/16/22 13:32 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	230000		25000		ug/Kg	☼	09/17/22 08:59	09/20/22 12:30	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*157*	*S1+*	*24 - 136*	*09/17/22 08:59*	*09/20/22 12:30*	*500*
DCB Decachlorobiphenyl (Surr)	*202*	*S1+*	*37 - 135*	*09/17/22 08:59*	*09/20/22 12:30*	*500*

Client: Roux Associates, Inc.
Job ID: 570-110054-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

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

Client Sample ID: Unit-1/2-RT-D
Date Collected: 09/16/22 12:47
Date Received: 09/16/22 18:20

Lab Sample ID: 570-110054-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/17/22 08:59	09/21/22 14:09	1
Aroclor-1221	ND		50		ug/Kg	☼	09/17/22 08:59	09/21/22 14:09	1
Aroclor-1232	ND		50		ug/Kg	☼	09/17/22 08:59	09/21/22 14:09	1
Aroclor-1242	ND		50		ug/Kg	☼	09/17/22 08:59	09/21/22 14:09	1
Aroclor-1248	ND		50		ug/Kg	☼	09/17/22 08:59	09/21/22 14:09	1
Aroclor-1254	ND		50		ug/Kg	☼	09/17/22 08:59	09/21/22 14:09	1
Aroclor-1260	ND		50		ug/Kg	☼	09/17/22 08:59	09/21/22 14:09	1
Aroclor-1262	ND		50		ug/Kg	☼	09/17/22 08:59	09/21/22 14:09	1
Aroclor-1268	ND		50		ug/Kg	☼	09/17/22 08:59	09/21/22 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*60*		*24 - 136*	*09/17/22 08:59*	*09/21/22 14:09*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*37 - 135*	*09/17/22 08:59*	*09/21/22 14:09*	*1*

General Chemistry

Client Sample ID: Unit-1/2-RT-B **Lab Sample ID: 570-110054-2**
Date Collected: 09/16/22 12:41 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.3		0.1		%			09/19/22 13:24	1

Client Sample ID: Unit-1/2-RT-C **Lab Sample ID: 570-110054-3**
Date Collected: 09/16/22 12:45 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.0		0.1		%			09/19/22 13:24	1

Client Sample ID: Unit-1/2-RT-D **Lab Sample ID: 570-110054-4**
Date Collected: 09/16/22 12:47 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.6		0.1		%			09/19/22 13:24	1

Client Sample ID: Unit-1/2-RT-E **Lab Sample ID: 570-110054-5**
Date Collected: 09/16/22 12:51 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.5		0.1		%			09/19/22 13:24	1

Client Sample ID: Unit-1/2-RT-F **Lab Sample ID: 570-110054-6**
Date Collected: 09/16/22 12:54 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		0.1		%			09/19/22 15:59	1

Client Sample ID: Unit-1/2-RT-SO-A **Lab Sample ID: 570-110054-7**
Date Collected: 09/16/22 12:59 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.2		0.1		%			09/19/22 15:59	1

Client Sample ID: Unit-1/2-RT-SO-B **Lab Sample ID: 570-110054-8**
Date Collected: 09/16/22 13:02 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		0.1		%			09/19/22 15:59	1

Client Sample ID: Unit-1/2-RT-SO-B-DUP **Lab Sample ID: 570-110054-9**
Date Collected: 09/16/22 13:02 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.2		0.1		%			09/19/22 15:59	1

Client Sample ID: Unit-2-SST-A **Lab Sample ID: 570-110054-10**
Date Collected: 09/16/22 13:08 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.3		0.1		%			09/19/22 15:59	1

General Chemistry

Client Sample ID: Unit-2-SST-B **Lab Sample ID: 570-110054-11**
Date Collected: 09/16/22 13:17 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		0.1		%			09/19/22 15:59	1

Client Sample ID: Unit-2-SST-C **Lab Sample ID: 570-110054-12**
Date Collected: 09/16/22 13:21 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.5		0.1		%			09/19/22 15:59	1

Client Sample ID: Unit-2-SST-D **Lab Sample ID: 570-110054-13**
Date Collected: 09/16/22 13:25 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.0		0.1		%			09/19/22 15:59	1

Client Sample ID: Unit-2-SST-E **Lab Sample ID: 570-110054-14**
Date Collected: 09/16/22 13:28 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.0		0.1		%			09/19/22 16:00	1

Client Sample ID: Unit-2-SST-F **Lab Sample ID: 570-110054-15**
Date Collected: 09/16/22 13:32 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.6		0.1		%			09/19/22 16:00	1

Client Sample ID: Unit-2-SST-S0-W-A **Lab Sample ID: 570-110054-16**
Date Collected: 09/16/22 13:38 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.6		0.1		%			09/19/22 16:00	1

Client Sample ID: Unit-2-SST-S0-W-B **Lab Sample ID: 570-110054-17**
Date Collected: 09/16/22 13:41 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		0.1		%			09/19/22 16:00	1

Client Sample ID: Unit-2-SST-S0-W-C **Lab Sample ID: 570-110054-18**
Date Collected: 09/16/22 13:44 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		0.1		%			09/19/22 16:00	1

Client Sample ID: Unit-2-SST-S0-W-S1-10A **Lab Sample ID: 570-110054-19**
Date Collected: 09/16/22 13:50 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.0		0.1		%			09/19/22 16:00	1

General Chemistry

Client Sample ID: Unit-2-SST-S0-W-S1-10B **Lab Sample ID: 570-110054-20**
Date Collected: 09/16/22 13:53 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		0.1		%			09/19/22 16:00	1

Client Sample ID: Unit-2-SST-S0-W-S1-10C **Lab Sample ID: 570-110054-21**
Date Collected: 09/16/22 13:58 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		0.1		%			09/19/22 16:00	1

Client Sample ID: Unit-2-SST-S0-W-S1-10C-DUP **Lab Sample ID: 570-110054-22**
Date Collected: 09/16/22 13:58 **Matrix: Solid**
Date Received: 09/16/22 18:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		0.1		%			09/19/22 16:00	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110054-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-110053-A-21-A MS	Matrix Spike	55	55
570-110053-A-21-B MSD	Matrix Spike Duplicate	41	33 S1-
570-110054-1	Unit-1/2-RT-A	42	43
570-110054-1 MS	Unit-1/2-RT-A	98	92
570-110054-1 MSD	Unit-1/2-RT-A	96	91
570-110054-2	Unit-1/2-RT-B	39	37
570-110054-2 - DL	Unit-1/2-RT-B	39	42
570-110054-3	Unit-1/2-RT-C	63	53
570-110054-4 - RA	Unit-1/2-RT-D	60	64
570-110054-5	Unit-1/2-RT-E	87	77
570-110054-5 - DL	Unit-1/2-RT-E	95	90
570-110054-6 - DL	Unit-1/2-RT-F	89	90
570-110054-7	Unit-1/2-RT-SO-A	102	87
570-110054-8 - DL	Unit-1/2-RT-SO-B	88	73
570-110054-9 - DL	Unit-1/2-RT-SO-B-DUP	84	70
570-110054-10	Unit-2-SST-A	63	69
570-110054-11	Unit-2-SST-B	79	74
570-110054-12	Unit-2-SST-C	90	89
570-110054-13	Unit-2-SST-D	91	85
570-110054-14	Unit-2-SST-E	90	83
570-110054-15 - DL2	Unit-2-SST-F	157 S1+	202 S1+
570-110054-15 - DL	Unit-2-SST-F	108	141 S1+
570-110054-16	Unit-2-SST-S0-W-A	95	93
570-110054-17	Unit-2-SST-S0-W-B	96	94
570-110054-18	Unit-2-SST-S0-W-C	87	83
570-110054-19	Unit-2-SST-S0-W-S1-10A	91	89
570-110054-20	Unit-2-SST-S0-W-S1-10B	89	80
570-110054-21	Unit-2-SST-S0-W-S1-10C	90	84
570-110054-22	Unit-2-SST-S0-W-S1-10C-DUP	95	96
LCS 570-265020/2-A	Lab Control Sample	94	85
LCS 570-265021/2-A	Lab Control Sample	95	98
LCSD 570-265020/3-A	Lab Control Sample Dup	96	92
LCSD 570-265021/3-A	Lab Control Sample Dup	98	113
MB 570-265020/1-A	Method Blank	94	92
MB 570-265021/1-A	Method Blank	100	121

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-265020/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 265181
Prep Batch: 265020

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		09/17/22 08:59	09/19/22 15:28	1
Aroclor-1221	ND		50		ug/Kg		09/17/22 08:59	09/19/22 15:28	1
Aroclor-1232	ND		50		ug/Kg		09/17/22 08:59	09/19/22 15:28	1
Aroclor-1242	ND		50		ug/Kg		09/17/22 08:59	09/19/22 15:28	1
Aroclor-1248	ND		50		ug/Kg		09/17/22 08:59	09/19/22 15:28	1
Aroclor-1254	ND		50		ug/Kg		09/17/22 08:59	09/19/22 15:28	1
Aroclor-1260	ND		50		ug/Kg		09/17/22 08:59	09/19/22 15:28	1
Aroclor-1262	ND		50		ug/Kg		09/17/22 08:59	09/19/22 15:28	1
Aroclor-1268	ND		50		ug/Kg		09/17/22 08:59	09/19/22 15:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*94*		*24 - 136*	*09/17/22 08:59*	*09/19/22 15:28*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 135*	*09/17/22 08:59*	*09/19/22 15:28*	*1*

Lab Sample ID: LCS 570-265020/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 265181
Prep Batch: 265020

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	110.4		ug/Kg		110	46 - 131
Aroclor-1260	100	110.2		ug/Kg		110	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*94*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*85*		*37 - 135*

Lab Sample ID: LCSD 570-265020/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 265181
Prep Batch: 265020

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	113.4		ug/Kg		113	46 - 131	3	32
Aroclor-1260	100	108.1		ug/Kg		108	40 - 150	2	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*96*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 135*

Lab Sample ID: 570-110054-1 MS
Client Sample ID: Unit-1/2-RT-A
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 265181
Prep Batch: 265020

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		99.8	113.8		ug/Kg		114	29 - 174
Aroclor-1260	ND	F1	99.8	306.0	F1	ug/Kg		260	20 - 180

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

Lab Sample ID: 570-110054-1 MS
Matrix: Solid
Analysis Batch: 265181

Client Sample ID: Unit-1/2-RT-A
Prep Type: Total/NA
Prep Batch: 265020

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*98*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 135*

Lab Sample ID: 570-110054-1 MSD
Matrix: Solid
Analysis Batch: 265181

Client Sample ID: Unit-1/2-RT-A
Prep Type: Total/NA
Prep Batch: 265020

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		100	111.2		ug/Kg		111	29 - 174	2	40
Aroclor-1260	ND	F1	100	286.5	F1	ug/Kg		239	20 - 180	7	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*96*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 135*

Lab Sample ID: MB 570-265021/1-A
Matrix: Solid
Analysis Batch: 265607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 265021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1221	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1232	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1242	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1248	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1254	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1260	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1262	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1
Aroclor-1268	ND		50		ug/Kg		09/17/22 09:01	09/20/22 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	*100*		*24 - 136*	*09/17/22 09:01*	*09/20/22 11:15*	*1*
DCB Decachlorobiphenyl (Surr)	*121*		*37 - 135*	*09/17/22 09:01*	*09/20/22 11:15*	*1*

Lab Sample ID: LCS 570-265021/2-A
Matrix: Solid
Analysis Batch: 265607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 265021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	97.79		ug/Kg		98	46 - 131
Aroclor-1260	100	100.2		ug/Kg		100	40 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*98*		*37 - 135*

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

Lab Sample ID: LCSD 570-265021/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265607 — **Prep Batch: 265021**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			100	113.5		ug/Kg		113	46 - 131	15	32
Aroclor-1260			100	122.2		ug/Kg		122	40 - 150	20	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*98*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*113*		*37 - 135*

Lab Sample ID: 570-110053-A-21-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265607 — **Prep Batch: 265021**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND	F1	100	ND	F1	ug/Kg	☼	0	29 - 174
Aroclor-1260	1500	F2 E	100	1883	E 4	ug/Kg	☼	412	20 - 180

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*55*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*55*		*37 - 135*

Lab Sample ID: 570-110053-A-21-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265607 — **Prep Batch: 265021**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND	F1	99.9	ND	F1	ug/Kg	☼	0	29 - 174	NC	40
Aroclor-1260	1500	F2 E	99.9	1108	4 F2	ug/Kg	☼	-364	20 - 180	52	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*41*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*33*	*S1-*	*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-110054-3 DU — **Client Sample ID: Unit-1/2-RT-C**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265374

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	2.0		2.0		%		1	10

Lab Sample ID: 570-110054-6 DU — **Client Sample ID: Unit-1/2-RT-F**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265712

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	1.7		1.7		%		0.6	10

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 570-110054-14 DU
Client Sample ID: Unit-2-SST-E
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 265715

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	2.0			2.0		%				0.5	10

GC Semi VOA

Prep Batch: 265020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110054-1	Unit-1/2-RT-A	Total/NA	Solid	3540C	
570-110054-2 - DL	Unit-1/2-RT-B	Total/NA	Solid	3540C	
570-110054-2	Unit-1/2-RT-B	Total/NA	Solid	3540C	
570-110054-3	Unit-1/2-RT-C	Total/NA	Solid	3540C	
570-110054-4 - RA	Unit-1/2-RT-D	Total/NA	Solid	3540C	
570-110054-5	Unit-1/2-RT-E	Total/NA	Solid	3540C	
570-110054-5 - DL	Unit-1/2-RT-E	Total/NA	Solid	3540C	
570-110054-6 - DL	Unit-1/2-RT-F	Total/NA	Solid	3540C	
570-110054-7	Unit-1/2-RT-SO-A	Total/NA	Solid	3540C	
570-110054-8 - DL	Unit-1/2-RT-SO-B	Total/NA	Solid	3540C	
570-110054-9 - DL	Unit-1/2-RT-SO-B-DUP	Total/NA	Solid	3540C	
570-110054-10	Unit-2-SST-A	Total/NA	Solid	3540C	
570-110054-11	Unit-2-SST-B	Total/NA	Solid	3540C	
570-110054-12	Unit-2-SST-C	Total/NA	Solid	3540C	
570-110054-13	Unit-2-SST-D	Total/NA	Solid	3540C	
570-110054-14	Unit-2-SST-E	Total/NA	Solid	3540C	
570-110054-15 - DL2	Unit-2-SST-F	Total/NA	Solid	3540C	
570-110054-15 - DL	Unit-2-SST-F	Total/NA	Solid	3540C	
570-110054-16	Unit-2-SST-S0-W-A	Total/NA	Solid	3540C	
570-110054-17	Unit-2-SST-S0-W-B	Total/NA	Solid	3540C	
570-110054-18	Unit-2-SST-S0-W-C	Total/NA	Solid	3540C	
570-110054-19	Unit-2-SST-S0-W-S1-10A	Total/NA	Solid	3540C	
570-110054-20	Unit-2-SST-S0-W-S1-10B	Total/NA	Solid	3540C	
MB 570-265020/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-265020/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-265020/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-110054-1 MS	Unit-1/2-RT-A	Total/NA	Solid	3540C	
570-110054-1 MSD	Unit-1/2-RT-A	Total/NA	Solid	3540C	

Prep Batch: 265021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110054-21	Unit-2-SST-S0-W-S1-10C	Total/NA	Solid	3540C	
570-110054-22	Unit-2-SST-S0-W-S1-10C-DUP	Total/NA	Solid	3540C	
MB 570-265021/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-265021/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-265021/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-110053-A-21-A MS	Matrix Spike	Total/NA	Solid	3540C	
570-110053-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3540C	

Analysis Batch: 265181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110054-1	Unit-1/2-RT-A	Total/NA	Solid	8082	265020
570-110054-2	Unit-1/2-RT-B	Total/NA	Solid	8082	265020
570-110054-3	Unit-1/2-RT-C	Total/NA	Solid	8082	265020
570-110054-5	Unit-1/2-RT-E	Total/NA	Solid	8082	265020
570-110054-7	Unit-1/2-RT-SO-A	Total/NA	Solid	8082	265020
570-110054-10	Unit-2-SST-A	Total/NA	Solid	8082	265020
570-110054-11	Unit-2-SST-B	Total/NA	Solid	8082	265020
570-110054-12	Unit-2-SST-C	Total/NA	Solid	8082	265020
570-110054-13	Unit-2-SST-D	Total/NA	Solid	8082	265020
570-110054-14	Unit-2-SST-E	Total/NA	Solid	8082	265020

GC Semi VOA (Continued)

Analysis Batch: 265181 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110054-16	Unit-2-SST-S0-W-A	Total/NA	Solid	8082	265020
570-110054-17	Unit-2-SST-S0-W-B	Total/NA	Solid	8082	265020
570-110054-18	Unit-2-SST-S0-W-C	Total/NA	Solid	8082	265020
570-110054-19	Unit-2-SST-S0-W-S1-10A	Total/NA	Solid	8082	265020
570-110054-20	Unit-2-SST-S0-W-S1-10B	Total/NA	Solid	8082	265020
MB 570-265020/1-A	Method Blank	Total/NA	Solid	8082	265020
LCS 570-265020/2-A	Lab Control Sample	Total/NA	Solid	8082	265020
LCSD 570-265020/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	265020
570-110054-1 MS	Unit-1/2-RT-A	Total/NA	Solid	8082	265020
570-110054-1 MSD	Unit-1/2-RT-A	Total/NA	Solid	8082	265020

Analysis Batch: 265590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110054-2 - DL	Unit-1/2-RT-B	Total/NA	Solid	8082	265020
570-110054-5 - DL	Unit-1/2-RT-E	Total/NA	Solid	8082	265020
570-110054-6 - DL	Unit-1/2-RT-F	Total/NA	Solid	8082	265020
570-110054-8 - DL	Unit-1/2-RT-SO-B	Total/NA	Solid	8082	265020
570-110054-9 - DL	Unit-1/2-RT-SO-B-DUP	Total/NA	Solid	8082	265020
570-110054-15 - DL	Unit-2-SST-F	Total/NA	Solid	8082	265020
570-110054-15 - DL2	Unit-2-SST-F	Total/NA	Solid	8082	265020

Analysis Batch: 265607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110054-21	Unit-2-SST-S0-W-S1-10C	Total/NA	Solid	8082	265021
570-110054-22	Unit-2-SST-S0-W-S1-10C-DUP	Total/NA	Solid	8082	265021
MB 570-265021/1-A	Method Blank	Total/NA	Solid	8082	265021
LCS 570-265021/2-A	Lab Control Sample	Total/NA	Solid	8082	265021
LCSD 570-265021/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	265021
570-110053-A-21-A MS	Matrix Spike	Total/NA	Solid	8082	265021
570-110053-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	265021

Analysis Batch: 266099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110054-4 - RA	Unit-1/2-RT-D	Total/NA	Solid	8082	265020

General Chemistry

Analysis Batch: 265374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110054-2	Unit-1/2-RT-B	Total/NA	Solid	Moisture	
570-110054-3	Unit-1/2-RT-C	Total/NA	Solid	Moisture	
570-110054-4	Unit-1/2-RT-D	Total/NA	Solid	Moisture	
570-110054-5	Unit-1/2-RT-E	Total/NA	Solid	Moisture	
570-110054-3 DU	Unit-1/2-RT-C	Total/NA	Solid	Moisture	

Analysis Batch: 265712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110054-6	Unit-1/2-RT-F	Total/NA	Solid	Moisture	
570-110054-7	Unit-1/2-RT-SO-A	Total/NA	Solid	Moisture	
570-110054-8	Unit-1/2-RT-SO-B	Total/NA	Solid	Moisture	
570-110054-9	Unit-1/2-RT-SO-B-DUP	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 265712 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110054-10	Unit-2-SST-A	Total/NA	Solid	Moisture	
570-110054-11	Unit-2-SST-B	Total/NA	Solid	Moisture	
570-110054-12	Unit-2-SST-C	Total/NA	Solid	Moisture	
570-110054-13	Unit-2-SST-D	Total/NA	Solid	Moisture	
570-110054-6 DU	Unit-1/2-RT-F	Total/NA	Solid	Moisture	

Analysis Batch: 265715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110054-14	Unit-2-SST-E	Total/NA	Solid	Moisture	
570-110054-15	Unit-2-SST-F	Total/NA	Solid	Moisture	
570-110054-16	Unit-2-SST-S0-W-A	Total/NA	Solid	Moisture	
570-110054-17	Unit-2-SST-S0-W-B	Total/NA	Solid	Moisture	
570-110054-18	Unit-2-SST-S0-W-C	Total/NA	Solid	Moisture	
570-110054-19	Unit-2-SST-S0-W-S1-10A	Total/NA	Solid	Moisture	
570-110054-20	Unit-2-SST-S0-W-S1-10B	Total/NA	Solid	Moisture	
570-110054-21	Unit-2-SST-S0-W-S1-10C	Total/NA	Solid	Moisture	
570-110054-22	Unit-2-SST-S0-W-S1-10C-DUP	Total/NA	Solid	Moisture	
570-110054-14 DU	Unit-2-SST-E	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110054-1

Client Sample ID: Unit-1/2-RT-A

Date Collected: 09/16/22 11:47
Date Received: 09/16/22 18:20

Lab Sample ID: 570-110054-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.03 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/19/22 16:32	AJ2Q	EET CAL
	Instrument ID: GC66									

Client Sample ID: Unit-1/2-RT-B

Date Collected: 09/16/22 12:41
Date Received: 09/16/22 18:20

Lab Sample ID: 570-110054-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.08 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/19/22 16:53	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		20.08 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	265590	09/20/22 08:54	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265374	09/19/22 13:24	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-1/2-RT-C

Date Collected: 09/16/22 12:45
Date Received: 09/16/22 18:20

Lab Sample ID: 570-110054-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.05 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/19/22 17:14	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265374	09/19/22 13:24	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-1/2-RT-D

Date Collected: 09/16/22 12:47
Date Received: 09/16/22 18:20

Lab Sample ID: 570-110054-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	RA		20.18 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082	RA	1	1 mL	1 mL	266099	09/21/22 14:09	UJ3K	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265374	09/19/22 13:24	B4QL	EET CAL
	Instrument ID: MOI4									

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-110054-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-1/2-RT-E
Lab Sample ID: 570-110054-5
Date Collected: 09/16/22 12:51 **Matrix: Solid**
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.09 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/19/22 17:57	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		20.09 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	265590	09/20/22 09:15	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265374	09/19/22 13:24	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-1/2-RT-F
Lab Sample ID: 570-110054-6
Date Collected: 09/16/22 12:54 **Matrix: Solid**
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		20.13 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	265590	09/20/22 09:36	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265712	09/19/22 15:59	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-1/2-RT-SO-A
Lab Sample ID: 570-110054-7
Date Collected: 09/16/22 12:59 **Matrix: Solid**
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.06 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/19/22 18:40	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265712	09/19/22 15:59	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-1/2-RT-SO-B
Lab Sample ID: 570-110054-8
Date Collected: 09/16/22 13:02 **Matrix: Solid**
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		20.10 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	265590	09/20/22 09:58	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265712	09/19/22 15:59	B4QL	EET CAL
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110054-1

Client Sample ID: Unit-1/2-RT-SO-B-DUP

Lab Sample ID: 570-110054-9
Matrix: Solid
Date Collected: 09/16/22 13:02
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		20.18 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	265590	09/20/22 10:19	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265712	09/19/22 15:59	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-A

Lab Sample ID: 570-110054-10
Matrix: Solid
Date Collected: 09/16/22 13:08
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.18 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/19/22 19:43	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265712	09/19/22 15:59	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-B

Lab Sample ID: 570-110054-11
Matrix: Solid
Date Collected: 09/16/22 13:17
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.23 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/19/22 20:05	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265712	09/19/22 15:59	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-C

Lab Sample ID: 570-110054-12
Matrix: Solid
Date Collected: 09/16/22 13:21
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.02 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/19/22 20:26	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265712	09/19/22 15:59	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-D
Lab Sample ID: 570-110054-13
Date Collected: 09/16/22 13:25
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.02 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/19/22 20:47	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265712	09/19/22 15:59	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-E
Lab Sample ID: 570-110054-14
Date Collected: 09/16/22 13:28
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.07 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/19/22 21:09	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265715	09/19/22 16:00	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-F
Lab Sample ID: 570-110054-15
Date Collected: 09/16/22 13:32
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		20.12 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	50	1 mL	1 mL	265590	09/20/22 10:40	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL2		20.12 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL
Total/NA	Analysis	8082	DL2	500	1 mL	1 mL	265590	09/20/22 12:30	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265715	09/19/22 16:00	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-S0-W-A
Lab Sample ID: 570-110054-16
Date Collected: 09/16/22 13:38
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.08 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/19/22 22:55	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265715	09/19/22 16:00	B4QL	EET CAL
	Instrument ID: MOI4									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-110054-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-S0-W-B
Lab Sample ID: 570-110054-17
Date Collected: 09/16/22 13:41
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.06 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/19/22 23:16	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265715	09/19/22 16:00	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-S0-W-C
Lab Sample ID: 570-110054-18
Date Collected: 09/16/22 13:44
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.29 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/19/22 23:59	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265715	09/19/22 16:00	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-S0-W-S1-10A
Lab Sample ID: 570-110054-19
Date Collected: 09/16/22 13:50
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.32 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/20/22 00:20	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265715	09/19/22 16:00	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-S0-W-S1-10B
Lab Sample ID: 570-110054-20
Date Collected: 09/16/22 13:53
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.08 g	10 mL	265020	09/17/22 08:59	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265181	09/19/22 23:38	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			265715	09/19/22 16:00	B4QL	EET CAL
	Instrument ID: MOI4									

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-110054-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-S0-W-S1-10C
Lab Sample ID: 570-110054-21
Date Collected: 09/16/22 13:58
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.05 g	10 mL	265021	09/17/22 09:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265607	09/20/22 12:30	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265715	09/19/22 16:00	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-S0-W-S1-10C-DUP
Lab Sample ID: 570-110054-22
Date Collected: 09/16/22 13:58
Matrix: Solid
Date Received: 09/16/22 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.37 g	10 mL	265021	09/17/22 09:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265607	09/20/22 12:49	AJ2Q	EET CAL
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			265715	09/19/22 16:00	B4QL	EET CAL
	Instrument ID: MOI4									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-110054-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc. Job ID: 570-110054-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110054-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-110054-1	Unit-1/2-RT-A	Solid	09/16/22 11:47	09/16/22 18:20
570-110054-2	Unit-1/2-RT-B	Solid	09/16/22 12:41	09/16/22 18:20
570-110054-3	Unit-1/2-RT-C	Solid	09/16/22 12:45	09/16/22 18:20
570-110054-4	Unit-1/2-RT-D	Solid	09/16/22 12:47	09/16/22 18:20
570-110054-5	Unit-1/2-RT-E	Solid	09/16/22 12:51	09/16/22 18:20
570-110054-6	Unit-1/2-RT-F	Solid	09/16/22 12:54	09/16/22 18:20
570-110054-7	Unit-1/2-RT-SO-A	Solid	09/16/22 12:59	09/16/22 18:20
570-110054-8	Unit-1/2-RT-SO-B	Solid	09/16/22 13:02	09/16/22 18:20
570-110054-9	Unit-1/2-RT-SO-B-DUP	Solid	09/16/22 13:02	09/16/22 18:20
570-110054-10	Unit-2-SST-A	Solid	09/16/22 13:08	09/16/22 18:20
570-110054-11	Unit-2-SST-B	Solid	09/16/22 13:17	09/16/22 18:20
570-110054-12	Unit-2-SST-C	Solid	09/16/22 13:21	09/16/22 18:20
570-110054-13	Unit-2-SST-D	Solid	09/16/22 13:25	09/16/22 18:20
570-110054-14	Unit-2-SST-E	Solid	09/16/22 13:28	09/16/22 18:20
570-110054-15	Unit-2-SST-F	Solid	09/16/22 13:32	09/16/22 18:20
570-110054-16	Unit-2-SST-S0-W-A	Solid	09/16/22 13:38	09/16/22 18:20
570-110054-17	Unit-2-SST-S0-W-B	Solid	09/16/22 13:41	09/16/22 18:20
570-110054-18	Unit-2-SST-S0-W-C	Solid	09/16/22 13:44	09/16/22 18:20
570-110054-19	Unit-2-SST-S0-W-S1-10A	Solid	09/16/22 13:50	09/16/22 18:20
570-110054-20	Unit-2-SST-S0-W-S1-10B	Solid	09/16/22 13:53	09/16/22 18:20
570-110054-21	Unit-2-SST-S0-W-S1-10C	Solid	09/16/22 13:58	09/16/22 18:20
570-110054-22	Unit-2-SST-S0-W-S1-10C-DUP	Solid	09/16/22 13:58	09/16/22 18:20

Patel, Virendra

From: Patel, Virendra
Sent: Monday, September 19, 2022 3:00 PM
To: Mark Nishibayashi; Matthew Nelson; 'Daniel Zaragoza'
Subject: Etiwanda Commerce Center --- 570-110054 -- Insufficient sample mass remaining.
Attachments: COC 570-110054 (202209162034).pdf

Importance: High

All -

For sample #1, Unit-1/2-RT-A – we have run out of sample to complete the Moisture Content. PCBs/Soxhlet will have to be reported as 'wet" weight as a result.

We will include narrative comment and a copy of this email in the final report.

Please advise of any questions/concerns. Thank you!

Best Regards,

Virendra Patel
Project Manager

Eurofins Environment Testing Southwest, LLC
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone: 714-895 5494
Direct: 657-210-6327
Mobile: 714-887-9901

Virendra.Patel@ET.EurofinsUS.com
www.EurofinsUS.com/Env



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Eurofins Calscience
2841 Dow Ave Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

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110054

Client Information	Sampler: Daniel Zaragoza	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Matthew Nelson / Mark N.	Phone: (818)726-4265	E-Mail: mnelson@roxinc.com		Page: 1 of 2
Company: Rox Associates, Inc.				Job #:
Address: 5150 E Pacific Coast Hwy #450	Due Date Requested			
City: Long Beach	TAT Requested (days): 72 Hr.			
State, Zip: CA 90804				
Phone:	PO #:			
Email	WO #:			
Project Name: Etiwanda Commerce Ctr.	Project #: 36530001L			
Site	SSOW#:			

Analysis Requested

Preservation Codes

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

Other:

ECI #57008787
Report results in dry-weight

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs (8082)/3540C	Moisture	Total Number of containers	Special Instructions/Note
				Preservation Code:							
1	Unit-1/2-RT-A	9-16-22	1147	G	S			X	X		
2	Unit-1/2-RT-B		1241								
3	Unit-1/2-RT-C		1245								
4	Unit-1/2-RT-D		1247								
5	Unit-1/2-RT-E		1251								
6	Unit-1/2-RT-F		1254								
7	Unit-1/2-RT_SO-A		1259								
8	Unit-1/2-RT_SO-B		1302								
9	Unit-1/2-RT_SO-B-DUP		1309								
10	Unit-2-SST-A		1308								
11	Unit-2-SST-B		1317								

570-110054 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III, IV, Other (specify)

Special Instructions/QC Requirements.

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Daniel Zaragoza	9-16-22	Rox		9/16/22 13:15	DC
2		9/16/22			9/16/22 1820	ECI
3						

Custody Seals Intact: △ Yes △ No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks: ~~1.8 / 4.8~~ ACD 9-16-22, 5.0 / 5.0 SC

Ver: 01/16/2019

9/22/2022

110054

Eurofins Calscience
2841 Dow Ave Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

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Client Information	Sampler: Daniel Zaragoza	Lab PM:	Carrier Tracking No(s)	COC No:
Client Contact: Matthew Nelson / Mark N.	Phone: (818) 726-4265	E-Mail: mnelson@rouxinc.com		Page: 2 of 2
Company: Roux Associates, Inc				Job #:
Address: 5150 E Pacific Hwy #450	Due Date Requested			
City: Long Beach	TAT Requested (days): 72 Hr			
State, Zip: CA 90804				
Phone	PO #:			
Email:	WO #:			
Project Name: Britannia Commerce Ctr.	Project #: 353.0001C			
Site:	SSOW#:			

Analysis Requested

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

ECI # 57008787
Report results in dry weight

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs (8082) / 3540C	Moisture	Total Number of containers	Special Instructions/Note
				Preservation Code:							
12	Unit-2-SST-C	9-16-22	1321	G	S			X	X		
13	Unit-2-SST-D		1325								
14	Unit-2-SST-E		1328								
15	Unit-2-SST-F		1332								
16	Unit-2-SST_SO-W-A		1338								
17	Unit-2-SST_SO-W-B		1341								
18	Unit-2-SST_SO-W-C		1344								
19	Unit-2-SST_SO-W-S1-10A		1350								
20	Unit-2-SST_SO-W-S1-10B		1353								
21	Unit-2-SST_SO-W-S1-10C		1358								
22	Unit-2-SST_SO-W-S1-10C-DUP		1358								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III IV Other (specify)

Special Instructions/QC Requirements

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

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Daniel Zaragoza	9-16-22	Roux		9/16/22 1515 PM	DCS
Relinquished by:	9/16/22			9/16/22 1840	AC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: ~~4.8~~ ACD 9.16.22 5.0/5.0 SLG

Ver. 01/16/2019

9/22/2022

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-110054-1

Login Number: 110054
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-110061-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
9/21/2022 5:00:53 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-110061-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-110061-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110061-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-110061-1

Comments
No additional comments.

Receipt
The samples were received on 9/16/2022 6:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.8º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received. No total number of containers listed for any of the samples.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3540C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-265022. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.
Method 8082.

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110061-1

Client Sample ID: Wipe-3-T

Lab Sample ID: 570-110061-1

No Detections.

Client Sample ID: Wipe-4-B

Lab Sample ID: 570-110061-2

No Detections.

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: Wipe-3-T **Lab Sample ID: 570-110061-1**
Date Collected: 09/16/22 08:45 **Matrix: Wipe**
Date Received: 09/16/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:26	1
Aroclor-1221	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:26	1
Aroclor-1232	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:26	1
Aroclor-1242	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:26	1
Aroclor-1248	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:26	1
Aroclor-1254	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:26	1
Aroclor-1260	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:26	1
Aroclor-1262	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:26	1
Aroclor-1268	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*37 - 135*	*09/17/22 09:03*	*09/20/22 11:26*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*24 - 136*	*09/17/22 09:03*	*09/20/22 11:26*	*1*

Client Sample ID: Wipe-4-B **Lab Sample ID: 570-110061-2**
Date Collected: 09/16/22 08:47 **Matrix: Wipe**
Date Received: 09/16/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:47	1
Aroclor-1221	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:47	1
Aroclor-1232	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:47	1
Aroclor-1242	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:47	1
Aroclor-1248	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:47	1
Aroclor-1254	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:47	1
Aroclor-1260	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:47	1
Aroclor-1262	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:47	1
Aroclor-1268	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 135*	*09/17/22 09:03*	*09/20/22 11:47*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*24 - 136*	*09/17/22 09:03*	*09/20/22 11:47*	*1*

Surrogate Summary

Client: Roux Associates, Inc. Job ID: 570-110061-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(37-135)	(24-136)
570-110061-1	Wipe-3-T	90	81
570-110061-2	Wipe-4-B	91	84
LCS 570-265022/2-A	Lab Control Sample	108	103
LCSD 570-265022/3-A	Lab Control Sample Dup	95	62
MB 570-265022/1-A	Method Blank	92	82

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

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

Lab Sample ID: MB 570-265022/1-A **Client Sample ID: Method Blank**
Matrix: Wipe **Prep Type: Total/NA**
Analysis Batch: 265590 **Prep Batch: 265022**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:04	1
Aroclor-1221	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:04	1
Aroclor-1232	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:04	1
Aroclor-1242	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:04	1
Aroclor-1248	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:04	1
Aroclor-1254	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:04	1
Aroclor-1260	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:04	1
Aroclor-1262	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:04	1
Aroclor-1268	ND		1.0		ug/Sample		09/17/22 09:03	09/20/22 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 135*	*09/17/22 09:03*	*09/20/22 11:04*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*24 - 136*	*09/17/22 09:03*	*09/20/22 11:04*	*1*

Lab Sample ID: LCS 570-265022/2-A **Client Sample ID: Lab Control Sample**
Matrix: Wipe **Prep Type: Total/NA**
Analysis Batch: 265590 **Prep Batch: 265022**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016			2.00	2.360		ug/Sample		118	46 - 131		
Aroclor-1260			2.00	2.629		ug/Sample		131	40 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*108*		*37 - 135*
Tetrachloro-m-xylene (Surr)	*103*		*24 - 136*

Lab Sample ID: LCSD 570-265022/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Wipe **Prep Type: Total/NA**
Analysis Batch: 265590 **Prep Batch: 265022**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			2.00	2.563		ug/Sample		128	46 - 131	8	32
Aroclor-1260			2.00	2.414		ug/Sample		121	40 - 150	9	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 135*
Tetrachloro-m-xylene (Surr)	*62*		*24 - 136*

QC Association Summary

Client: Roux Associates, Inc.
Job ID: 570-110061-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

GC Semi VOA

Prep Batch: 265022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110061-1	Wipe-3-T	Total/NA	Wipe	3540C	
570-110061-2	Wipe-4-B	Total/NA	Wipe	3540C	
MB 570-265022/1-A	Method Blank	Total/NA	Wipe	3540C	
LCS 570-265022/2-A	Lab Control Sample	Total/NA	Wipe	3540C	
LCSD 570-265022/3-A	Lab Control Sample Dup	Total/NA	Wipe	3540C	

Analysis Batch: 265590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110061-1	Wipe-3-T	Total/NA	Wipe	8082	265022
570-110061-2	Wipe-4-B	Total/NA	Wipe	8082	265022
MB 570-265022/1-A	Method Blank	Total/NA	Wipe	8082	265022
LCS 570-265022/2-A	Lab Control Sample	Total/NA	Wipe	8082	265022
LCSD 570-265022/3-A	Lab Control Sample Dup	Total/NA	Wipe	8082	265022

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110061-1

Client Sample ID: Wipe-3-T

Lab Sample ID: 570-110061-1

Date Collected: 09/16/22 08:45
Date Received: 09/16/22 17:00

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			1 Wipe	10 mL	265022	09/17/22 09:03	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265590	09/20/22 11:26	AJ2Q	EET CAL
	Instrument ID: GC66									

Client Sample ID: Wipe-4-B

Lab Sample ID: 570-110061-2

Date Collected: 09/16/22 08:47
Date Received: 09/16/22 17:00

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			1 Wipe	10 mL	265022	09/17/22 09:03	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	265590	09/20/22 11:47	AJ2Q	EET CAL
	Instrument ID: GC66									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-110061-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Wipe	Aroclor-1016
8082	3540C	Wipe	Aroclor-1221
8082	3540C	Wipe	Aroclor-1232
8082	3540C	Wipe	Aroclor-1242
8082	3540C	Wipe	Aroclor-1248
8082	3540C	Wipe	Aroclor-1254
8082	3540C	Wipe	Aroclor-1260
8082	3540C	Wipe	Aroclor-1262
8082	3540C	Wipe	Aroclor-1268

Method Summary

Client: Roux Associates, Inc.
Job ID: 570-110061-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110061-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-110061-1	Wipe-3-T	Wipe	09/16/22 08:45	09/16/22 17:00
570-110061-2	Wipe-4-B	Wipe	09/16/22 08:47	09/16/22 17:00

110061

Eurofins Calscience
2841 Dow Ave Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

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Client Information	Sampler: Daniel Zaragoza	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Matthew Nelson / Mark N.	Phone: (818) 726-4425	E-Mail: mnelson@rouxinc.com		Page: 1 of 1
Company: Roux Associates, Inc.				Job #:

Address: 5150 E. Pacific Coast Hwy.	Due Date Requested:	Analysis Requested
City: Long Beach	TAT Requested (days): 72-hr	
State, Zip: CA, 90804	PO #:	
Phone:	WO #:	
Email:	Project #: 3653.0001L	
Project Name: Edwards Commerce Ctr.	SSOW#:	
Site:		

Preservation Codes

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

Other:

ECI # 570067

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs (8082) / 3540C	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
1	Wipe-3-T	9-14-22	0845	G	S			X		Preserved (Hexane)
2	Wipe-4-B	"	0847	"	"			"		"

570-110061 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Date/Time:	Company		Date/Time:	Company
Relinquished by: Daniel Zaragoza	9-16-22	Roux	Received by:	9/16/22/3:15PM	DCS
Relinquished by:	Date/Time: 9/16/22	Company	Received by:	Date/Time: 9/16/22 EC	Company 1820
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 4.8/4.8 Scn

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-110061-1

Login Number: 110061
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-110333-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
9/23/2022 1:25:52 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-110333-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Job ID: 570-110333-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-110333-1

Comments
No additional comments.

Receipt
The samples were received on 9/20/2022 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.1° C.

GC Semi VOA
Method 8082: Due to the high concentration of Aroclor-1260, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-265774 and analytical batch 570-266477 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8082: The following samples required a dilution due to the nature of the sample matrix: Unit-2-SST-SO-W-S1-A (570-110333-1), Unit-2-SST-SO-W-S1-C (570-110333-3) and Unit-2-LT-SO-N-A (570-110333-11). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

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

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110333-1

Client Sample ID: Unit-2-SST-SO-W-S1-A — Lab Sample ID: 570-110333-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	120000		51000		ug/Kg	1000	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-S1-B — Lab Sample ID: 570-110333-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	580		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-S1-C — Lab Sample ID: 570-110333-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	14000		5100		ug/Kg	100	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-A — Lab Sample ID: 570-110333-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	7700		5100		ug/Kg	100	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW--B — Lab Sample ID: 570-110333-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	22000		5100		ug/Kg	100	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-N-A — Lab Sample ID: 570-110333-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	130		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-N-B — Lab Sample ID: 570-110333-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	150		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-N-C — Lab Sample ID: 570-110333-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	300		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-SO-N-B — Lab Sample ID: 570-110333-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	240		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-SO-N-B-D — Lab Sample ID: 570-110333-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1400		260		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-SO-N-A — Lab Sample ID: 570-110333-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	11000		2500		ug/Kg	50	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-SO-S-A — Lab Sample ID: 570-110333-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	470		50		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110333-1

Client Sample ID: Unit-2-LT-SO-S-B

Lab Sample ID: 570-110333-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1400		500		ug/Kg	10	☼	8082	Total/NA

Client Sample ID: Unit-1-SST-(S)-SO-A

Lab Sample ID: 570-110333-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	80		52		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: Unit-2-SST-SO-W-S1-A **Lab Sample ID: 570-110333-1**
Date Collected: 09/20/22 08:08 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		5100		ug/Kg	☼	09/20/22 15:32	09/23/22 04:26	100
Aroclor-1221	ND		5100		ug/Kg	☼	09/20/22 15:32	09/23/22 04:26	100
Aroclor-1232	ND		5100		ug/Kg	☼	09/20/22 15:32	09/23/22 04:26	100
Aroclor-1242	ND		5100		ug/Kg	☼	09/20/22 15:32	09/23/22 04:26	100
Aroclor-1248	ND		5100		ug/Kg	☼	09/20/22 15:32	09/23/22 04:26	100
Aroclor-1254	ND		5100		ug/Kg	☼	09/20/22 15:32	09/23/22 04:26	100
Aroclor-1262	ND		5100		ug/Kg	☼	09/20/22 15:32	09/23/22 04:26	100
Aroclor-1268	ND		5100		ug/Kg	☼	09/20/22 15:32	09/23/22 04:26	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*93*		*24 - 136*	*09/20/22 15:32*	*09/23/22 04:26*	*100*
DCB Decachlorobiphenyl (Surr)	*133*		*37 - 135*	*09/20/22 15:32*	*09/23/22 04:26*	*100*

Client Sample ID: Unit-2-SST-SO-W-S1-B **Lab Sample ID: 570-110333-2**
Date Collected: 09/20/22 08:17 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:32	1
Aroclor-1221	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:32	1
Aroclor-1232	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:32	1
Aroclor-1242	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:32	1
Aroclor-1248	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:32	1
Aroclor-1254	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:32	1
Aroclor-1260	**580**		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:32	1
Aroclor-1262	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:32	1
Aroclor-1268	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*84*		*24 - 136*	*09/20/22 15:32*	*09/22/22 13:32*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 135*	*09/20/22 15:32*	*09/22/22 13:32*	*1*

Client Sample ID: Unit-2-SST-SO-W-S1-C **Lab Sample ID: 570-110333-3**
Date Collected: 09/20/22 08:25 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:50	1
Aroclor-1221	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:50	1
Aroclor-1232	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:50	1
Aroclor-1242	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:50	1
Aroclor-1248	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:50	1
Aroclor-1254	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:50	1
Aroclor-1262	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:50	1
Aroclor-1268	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*	*09/20/22 15:32*	*09/22/22 13:50*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*37 - 135*	*09/20/22 15:32*	*09/22/22 13:50*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-SW-A **Lab Sample ID: 570-110333-4**
Date Collected: 09/20/22 08:35 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:08	1
Aroclor-1221	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:08	1
Aroclor-1232	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:08	1
Aroclor-1242	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:08	1
Aroclor-1248	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:08	1
Aroclor-1254	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:08	1
Aroclor-1262	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:08	1
Aroclor-1268	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*84*		*24 - 136*	*09/20/22 15:32*	*09/22/22 14:08*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*37 - 135*	*09/20/22 15:32*	*09/22/22 14:08*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW--B **Lab Sample ID: 570-110333-5**
Date Collected: 09/20/22 08:46 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:26	1
Aroclor-1221	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:26	1
Aroclor-1232	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:26	1
Aroclor-1242	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:26	1
Aroclor-1248	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:26	1
Aroclor-1254	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:26	1
Aroclor-1262	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:26	1
Aroclor-1268	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*92*		*24 - 136*	*09/20/22 15:32*	*09/22/22 14:26*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 135*	*09/20/22 15:32*	*09/22/22 14:26*	*1*

Client Sample ID: Unit-2-SST-SO-W-N-A **Lab Sample ID: 570-110333-6**
Date Collected: 09/20/22 08:59 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 14:44	1
Aroclor-1221	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 14:44	1
Aroclor-1232	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 14:44	1
Aroclor-1242	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 14:44	1
Aroclor-1248	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 14:44	1
Aroclor-1254	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 14:44	1
Aroclor-1260	**130**		50		ug/Kg	☼	09/20/22 15:32	09/22/22 14:44	1
Aroclor-1262	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 14:44	1
Aroclor-1268	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*81*		*24 - 136*	*09/20/22 15:32*	*09/22/22 14:44*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*37 - 135*	*09/20/22 15:32*	*09/22/22 14:44*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-N-B **Lab Sample ID: 570-110333-7**
Date Collected: 09/20/22 09:08 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 15:02	1
Aroclor-1221	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 15:02	1
Aroclor-1232	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 15:02	1
Aroclor-1242	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 15:02	1
Aroclor-1248	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 15:02	1
Aroclor-1254	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 15:02	1
Aroclor-1260	**150**		50		ug/Kg	☼	09/20/22 15:32	09/22/22 15:02	1
Aroclor-1262	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 15:02	1
Aroclor-1268	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*89*		*24 - 136*	*09/20/22 15:32*	*09/22/22 15:02*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*37 - 135*	*09/20/22 15:32*	*09/22/22 15:02*	*1*

Client Sample ID: Unit-2-SST-SO-W-N-C **Lab Sample ID: 570-110333-8**
Date Collected: 09/20/22 09:15 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:20	1
Aroclor-1221	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:20	1
Aroclor-1232	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:20	1
Aroclor-1242	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:20	1
Aroclor-1248	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:20	1
Aroclor-1254	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:20	1
Aroclor-1260	**300**		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:20	1
Aroclor-1262	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:20	1
Aroclor-1268	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*93*		*24 - 136*	*09/20/22 15:32*	*09/22/22 15:20*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*37 - 135*	*09/20/22 15:32*	*09/22/22 15:20*	*1*

Client Sample ID: Unit-2-LT-SO-N-B **Lab Sample ID: 570-110333-9**
Date Collected: 09/20/22 09:27 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:38	1
Aroclor-1221	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:38	1
Aroclor-1232	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:38	1
Aroclor-1242	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:38	1
Aroclor-1248	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:38	1
Aroclor-1254	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:38	1
Aroclor-1260	**240**		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:38	1
Aroclor-1262	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:38	1
Aroclor-1268	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*	*09/20/22 15:32*	*09/22/22 15:38*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*37 - 135*	*09/20/22 15:32*	*09/22/22 15:38*	*1*

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

Client Sample ID: Unit-2-LT-SO-N-B-D **Lab Sample ID: 570-110333-10**
Date Collected: 09/20/22 09:27 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:56	1
Aroclor-1221	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:56	1
Aroclor-1232	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:56	1
Aroclor-1242	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:56	1
Aroclor-1248	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:56	1
Aroclor-1254	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:56	1
Aroclor-1262	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:56	1
Aroclor-1268	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*93*		*24 - 136*	*09/20/22 15:32*	*09/22/22 15:56*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*37 - 135*	*09/20/22 15:32*	*09/22/22 15:56*	*1*

Client Sample ID: Unit-2-LT-SO-N-A **Lab Sample ID: 570-110333-11**
Date Collected: 09/20/22 09:34 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 16:14	1
Aroclor-1221	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 16:14	1
Aroclor-1232	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 16:14	1
Aroclor-1242	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 16:14	1
Aroclor-1248	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 16:14	1
Aroclor-1254	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 16:14	1
Aroclor-1262	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 16:14	1
Aroclor-1268	ND		51		ug/Kg	☼	09/20/22 15:32	09/22/22 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*84*		*24 - 136*	*09/20/22 15:32*	*09/22/22 16:14*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*37 - 135*	*09/20/22 15:32*	*09/22/22 16:14*	*1*

Client Sample ID: Unit-2-LT-SO-S-A **Lab Sample ID: 570-110333-12**
Date Collected: 09/20/22 09:46 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:32	1
Aroclor-1221	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:32	1
Aroclor-1232	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:32	1
Aroclor-1242	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:32	1
Aroclor-1248	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:32	1
Aroclor-1254	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:32	1
Aroclor-1260	**470**		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:32	1
Aroclor-1262	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:32	1
Aroclor-1268	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*94*		*24 - 136*	*09/20/22 15:32*	*09/22/22 16:32*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*37 - 135*	*09/20/22 15:32*	*09/22/22 16:32*	*1*

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

Client Sample ID: Unit-2-LT-SO-S-B **Lab Sample ID: 570-110333-13**
Date Collected: 09/20/22 09:55 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:50	1
Aroclor-1221	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:50	1
Aroclor-1232	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:50	1
Aroclor-1242	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:50	1
Aroclor-1248	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:50	1
Aroclor-1254	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:50	1
Aroclor-1262	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:50	1
Aroclor-1268	ND		50		ug/Kg	☼	09/20/22 15:32	09/22/22 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*81*		*24 - 136*	*09/20/22 15:32*	*09/22/22 16:50*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*37 - 135*	*09/20/22 15:32*	*09/22/22 16:50*	*1*

Client Sample ID: Unit-1-SST-(S)-SO-A **Lab Sample ID: 570-110333-17**
Date Collected: 09/20/22 10:37 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	09/20/22 15:32	09/23/22 01:08	1
Aroclor-1221	ND		52		ug/Kg	☼	09/20/22 15:32	09/23/22 01:08	1
Aroclor-1232	ND		52		ug/Kg	☼	09/20/22 15:32	09/23/22 01:08	1
Aroclor-1242	ND		52		ug/Kg	☼	09/20/22 15:32	09/23/22 01:08	1
Aroclor-1248	ND		52		ug/Kg	☼	09/20/22 15:32	09/23/22 01:08	1
Aroclor-1254	ND		52		ug/Kg	☼	09/20/22 15:32	09/23/22 01:08	1
Aroclor-1260	**80**		52		ug/Kg	☼	09/20/22 15:32	09/23/22 01:08	1
Aroclor-1262	ND		52		ug/Kg	☼	09/20/22 15:32	09/23/22 01:08	1
Aroclor-1268	ND		52		ug/Kg	☼	09/20/22 15:32	09/23/22 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*80*		*24 - 136*	*09/20/22 15:32*	*09/23/22 01:08*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 135*	*09/20/22 15:32*	*09/23/22 01:08*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-S1-A — **Lab Sample ID: 570-110333-1**
Date Collected: 09/20/22 08:08 — **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	120000		51000		ug/Kg	☼	09/20/22 15:32	09/23/22 06:31	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*100*		*24 - 136*	*09/20/22 15:32*	*09/23/22 06:31*	*1000*
DCB Decachlorobiphenyl (Surr)	*141*	*S1+*	*37 - 135*	*09/20/22 15:32*	*09/23/22 06:31*	*1000*

Client Sample ID: Unit-2-SST-SO-W-S1-C — **Lab Sample ID: 570-110333-3**
Date Collected: 09/20/22 08:25 — **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	14000		5100		ug/Kg	☼	09/20/22 15:32	09/23/22 04:44	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*87*		*24 - 136*	*09/20/22 15:32*	*09/23/22 04:44*	*100*
DCB Decachlorobiphenyl (Surr)	*99*		*37 - 135*	*09/20/22 15:32*	*09/23/22 04:44*	*100*

Client Sample ID: Unit-2-SST-SO-W-SW-A — **Lab Sample ID: 570-110333-4**
Date Collected: 09/20/22 08:35 — **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	7700		5100		ug/Kg	☼	09/20/22 15:32	09/23/22 05:01	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*91*		*24 - 136*	*09/20/22 15:32*	*09/23/22 05:01*	*100*
DCB Decachlorobiphenyl (Surr)	*101*		*37 - 135*	*09/20/22 15:32*	*09/23/22 05:01*	*100*

Client Sample ID: Unit-2-SST-SO-W-SW--B — **Lab Sample ID: 570-110333-5**
Date Collected: 09/20/22 08:46 — **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	22000		5100		ug/Kg	☼	09/20/22 15:32	09/23/22 05:19	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*86*		*24 - 136*	*09/20/22 15:32*	*09/23/22 05:19*	*100*
DCB Decachlorobiphenyl (Surr)	*101*		*37 - 135*	*09/20/22 15:32*	*09/23/22 05:19*	*100*

Client Sample ID: Unit-2-LT-SO-N-B-D — **Lab Sample ID: 570-110333-10**
Date Collected: 09/20/22 09:27 — **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	1400		260		ug/Kg	☼	09/20/22 15:32	09/23/22 05:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*86*		*24 - 136*	*09/20/22 15:32*	*09/23/22 05:37*	*5*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 135*	*09/20/22 15:32*	*09/23/22 05:37*	*5*

Client Sample ID: Unit-2-LT-SO-N-A — **Lab Sample ID: 570-110333-11**
Date Collected: 09/20/22 09:34 — **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	11000		2500		ug/Kg	☼	09/20/22 15:32	09/23/22 05:55	50

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	*79*		*24 - 136*	*09/20/22 15:32*	*09/23/22 05:55*	*50*
DCB Decachlorobiphenyl (Surr)	*111*		*37 - 135*	*09/20/22 15:32*	*09/23/22 05:55*	*50*

Client Sample ID: Unit-2-LT-SO-S-B **Lab Sample ID: 570-110333-13**
Date Collected: 09/20/22 09:55 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**1400**		500		ug/Kg	☼	09/20/22 15:32	09/23/22 06:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	*83*		*24 - 136*	*09/20/22 15:32*	*09/23/22 06:13*	*10*
DCB Decachlorobiphenyl (Surr)	*102*		*37 - 135*	*09/20/22 15:32*	*09/23/22 06:13*	*10*

General Chemistry

Client Sample ID: Unit-2-SST-SO-W-S1-A **Lab Sample ID: 570-110333-1**
Date Collected: 09/20/22 08:08 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.6		0.1		%			09/20/22 17:01	1

Client Sample ID: Unit-2-SST-SO-W-S1-B **Lab Sample ID: 570-110333-2**
Date Collected: 09/20/22 08:17 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.2		0.1		%			09/20/22 17:01	1

Client Sample ID: Unit-2-SST-SO-W-S1-C **Lab Sample ID: 570-110333-3**
Date Collected: 09/20/22 08:25 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.6		0.1		%			09/20/22 17:01	1

Client Sample ID: Unit-2-SST-SO-W-SW-A **Lab Sample ID: 570-110333-4**
Date Collected: 09/20/22 08:35 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		0.1		%			09/20/22 17:01	1

Client Sample ID: Unit-2-SST-SO-W-SW--B **Lab Sample ID: 570-110333-5**
Date Collected: 09/20/22 08:46 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.0		0.1		%			09/20/22 17:01	1

Client Sample ID: Unit-2-SST-SO-W-N-A **Lab Sample ID: 570-110333-6**
Date Collected: 09/20/22 08:59 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.5		0.1		%			09/20/22 16:38	1

Client Sample ID: Unit-2-SST-SO-W-N-B **Lab Sample ID: 570-110333-7**
Date Collected: 09/20/22 09:08 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.6		0.1		%			09/20/22 17:01	1

Client Sample ID: Unit-2-SST-SO-W-N-C **Lab Sample ID: 570-110333-8**
Date Collected: 09/20/22 09:15 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.7		0.1		%			09/20/22 17:01	1

Client Sample ID: Unit-2-LT-SO-N-B **Lab Sample ID: 570-110333-9**
Date Collected: 09/20/22 09:27 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.0		0.1		%			09/20/22 17:01	1

General Chemistry

Client Sample ID: Unit-2-LT-SO-N-B-D **Lab Sample ID: 570-110333-10**
Date Collected: 09/20/22 09:27 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.1		0.1		%			09/20/22 17:01	1

Client Sample ID: Unit-2-LT-SO-N-A **Lab Sample ID: 570-110333-11**
Date Collected: 09/20/22 09:34 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.7		0.1		%			09/20/22 17:01	1

Client Sample ID: Unit-2-LT-SO-S-A **Lab Sample ID: 570-110333-12**
Date Collected: 09/20/22 09:46 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.6		0.1		%			09/20/22 17:01	1

Client Sample ID: Unit-2-LT-SO-S-B **Lab Sample ID: 570-110333-13**
Date Collected: 09/20/22 09:55 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.5		0.1		%			09/20/22 17:01	1

Client Sample ID: Unit-1-SST-(S)-SO-A **Lab Sample ID: 570-110333-17**
Date Collected: 09/20/22 10:37 **Matrix: Solid**
Date Received: 09/20/22 15:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.2		0.1		%			09/20/22 17:01	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110333-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-110333-1	Unit-2-SST-SO-W-S1-A	93	133
570-110333-1 - DL	Unit-2-SST-SO-W-S1-A	100	141 S1+
570-110333-1 MS	Unit-2-SST-SO-W-S1-A	101	135
570-110333-1 MSD	Unit-2-SST-SO-W-S1-A	96	113
570-110333-2	Unit-2-SST-SO-W-S1-B	84	87
570-110333-3	Unit-2-SST-SO-W-S1-C	85	97
570-110333-3 - DL	Unit-2-SST-SO-W-S1-C	87	99
570-110333-4	Unit-2-SST-SO-W-SW-A	84	99
570-110333-4 - DL	Unit-2-SST-SO-W-SW-A	91	101
570-110333-5	Unit-2-SST-SO-W-SW--B	92	92
570-110333-5 - DL	Unit-2-SST-SO-W-SW--B	86	101
570-110333-6	Unit-2-SST-SO-W-N-A	81	83
570-110333-7	Unit-2-SST-SO-W-N-B	89	96
570-110333-8	Unit-2-SST-SO-W-N-C	93	97
570-110333-9	Unit-2-LT-SO-N-B	95	96
570-110333-10	Unit-2-LT-SO-N-B-D	93	88
570-110333-10 - DL	Unit-2-LT-SO-N-B-D	86	92
570-110333-11	Unit-2-LT-SO-N-A	84	98
570-110333-11 - DL	Unit-2-LT-SO-N-A	79	111
570-110333-12	Unit-2-LT-SO-S-A	94	99
570-110333-13	Unit-2-LT-SO-S-B	81	94
570-110333-13 - DL	Unit-2-LT-SO-S-B	83	102
570-110333-17	Unit-1-SST-(S)-SO-A	80	81
LCS 570-265774/2-A	Lab Control Sample	84	97
LCSD 570-265774/3-A	Lab Control Sample Dup	82	95
MB 570-265774/1-A	Method Blank	87	96

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-265774/1-A
Matrix: Solid
Analysis Batch: 266477

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 265774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		09/20/22 15:32	09/22/22 11:45	1
Aroclor-1221	ND		50		ug/Kg		09/20/22 15:32	09/22/22 11:45	1
Aroclor-1232	ND		50		ug/Kg		09/20/22 15:32	09/22/22 11:45	1
Aroclor-1242	ND		50		ug/Kg		09/20/22 15:32	09/22/22 11:45	1
Aroclor-1248	ND		50		ug/Kg		09/20/22 15:32	09/22/22 11:45	1
Aroclor-1254	ND		50		ug/Kg		09/20/22 15:32	09/22/22 11:45	1
Aroclor-1260	ND		50		ug/Kg		09/20/22 15:32	09/22/22 11:45	1
Aroclor-1262	ND		50		ug/Kg		09/20/22 15:32	09/22/22 11:45	1
Aroclor-1268	ND		50		ug/Kg		09/20/22 15:32	09/22/22 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*87*		*24 - 136*	*09/20/22 15:32*	*09/22/22 11:45*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*37 - 135*	*09/20/22 15:32*	*09/22/22 11:45*	*1*

Lab Sample ID: LCS 570-265774/2-A
Matrix: Solid
Analysis Batch: 266477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 265774

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016			100	83.07		ug/Kg		83	46 - 131		
Aroclor-1260			100	122.4		ug/Kg		122	40 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*84*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*97*		*37 - 135*

Lab Sample ID: LCSD 570-265774/3-A
Matrix: Solid
Analysis Batch: 266477

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 265774

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			100	94.59		ug/Kg		95	46 - 131	13	32
Aroclor-1260			100	109.2		ug/Kg		109	40 - 150	11	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*82*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 135*

Lab Sample ID: 570-110333-1 MS
Matrix: Solid
Analysis Batch: 266477

Client Sample ID: Unit-2-SST-SO-W-S1-A
Prep Type: Total/NA
Prep Batch: 265774

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016	ND		103	ND		ug/Kg	☼	NC	29 - 174		
Aroclor-1260	110000	E	103	155200	E 4	ug/Kg	☼	44834	20 - 180		

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

Lab Sample ID: 570-110333-1 MS — **Client Sample ID: Unit-2-SST-SO-W-S1-A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 266477 — **Prep Batch: 265774**

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*101*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*135*		*37 - 135*

Lab Sample ID: 570-110333-1 MSD — **Client Sample ID: Unit-2-SST-SO-W-S1-A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 266477 — **Prep Batch: 265774**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		102	ND		ug/Kg	☼	NC	29 - 174	NC	40
Aroclor-1260	110000	E	102	115300	E 4	ug/Kg	☼	5958	20 - 180	30	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*96*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*113*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-110333-1 DU — **Client Sample ID: Unit-2-SST-SO-W-S1-A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265875

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	3.6		3.6		%		2	10

Lab Sample ID: 570-110333-12 DU — **Client Sample ID: Unit-2-LT-SO-S-A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 265875

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	1.6		1.5		%		8	10

Lab Sample ID: 570-110333-6 DU — **Client Sample ID: Unit-2-SST-SO-W-N-A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 266049

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	1.5		1.5		%		0.7	10

GC Semi VOA

Prep Batch: 265774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110333-1 - DL	Unit-2-SST-SO-W-S1-A	Total/NA	Solid	3540C	
570-110333-1	Unit-2-SST-SO-W-S1-A	Total/NA	Solid	3540C	
570-110333-2	Unit-2-SST-SO-W-S1-B	Total/NA	Solid	3540C	
570-110333-3 - DL	Unit-2-SST-SO-W-S1-C	Total/NA	Solid	3540C	
570-110333-3	Unit-2-SST-SO-W-S1-C	Total/NA	Solid	3540C	
570-110333-4	Unit-2-SST-SO-W-SW-A	Total/NA	Solid	3540C	
570-110333-4 - DL	Unit-2-SST-SO-W-SW-A	Total/NA	Solid	3540C	
570-110333-5 - DL	Unit-2-SST-SO-W-SW--B	Total/NA	Solid	3540C	
570-110333-5	Unit-2-SST-SO-W-SW--B	Total/NA	Solid	3540C	
570-110333-6	Unit-2-SST-SO-W-N-A	Total/NA	Solid	3540C	
570-110333-7	Unit-2-SST-SO-W-N-B	Total/NA	Solid	3540C	
570-110333-8	Unit-2-SST-SO-W-N-C	Total/NA	Solid	3540C	
570-110333-9	Unit-2-LT-SO-N-B	Total/NA	Solid	3540C	
570-110333-10	Unit-2-LT-SO-N-B-D	Total/NA	Solid	3540C	
570-110333-10 - DL	Unit-2-LT-SO-N-B-D	Total/NA	Solid	3540C	
570-110333-11	Unit-2-LT-SO-N-A	Total/NA	Solid	3540C	
570-110333-11 - DL	Unit-2-LT-SO-N-A	Total/NA	Solid	3540C	
570-110333-12	Unit-2-LT-SO-S-A	Total/NA	Solid	3540C	
570-110333-13	Unit-2-LT-SO-S-B	Total/NA	Solid	3540C	
570-110333-13 - DL	Unit-2-LT-SO-S-B	Total/NA	Solid	3540C	
570-110333-17	Unit-1-SST-(S)-SO-A	Total/NA	Solid	3540C	
MB 570-265774/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-265774/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-265774/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-110333-1 MS	Unit-2-SST-SO-W-S1-A	Total/NA	Solid	3540C	
570-110333-1 MSD	Unit-2-SST-SO-W-S1-A	Total/NA	Solid	3540C	

Analysis Batch: 266477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110333-1	Unit-2-SST-SO-W-S1-A	Total/NA	Solid	8082	265774
570-110333-1 - DL	Unit-2-SST-SO-W-S1-A	Total/NA	Solid	8082	265774
570-110333-2	Unit-2-SST-SO-W-S1-B	Total/NA	Solid	8082	265774
570-110333-3	Unit-2-SST-SO-W-S1-C	Total/NA	Solid	8082	265774
570-110333-3 - DL	Unit-2-SST-SO-W-S1-C	Total/NA	Solid	8082	265774
570-110333-4	Unit-2-SST-SO-W-SW-A	Total/NA	Solid	8082	265774
570-110333-4 - DL	Unit-2-SST-SO-W-SW-A	Total/NA	Solid	8082	265774
570-110333-5	Unit-2-SST-SO-W-SW--B	Total/NA	Solid	8082	265774
570-110333-5 - DL	Unit-2-SST-SO-W-SW--B	Total/NA	Solid	8082	265774
570-110333-6	Unit-2-SST-SO-W-N-A	Total/NA	Solid	8082	265774
570-110333-7	Unit-2-SST-SO-W-N-B	Total/NA	Solid	8082	265774
570-110333-8	Unit-2-SST-SO-W-N-C	Total/NA	Solid	8082	265774
570-110333-9	Unit-2-LT-SO-N-B	Total/NA	Solid	8082	265774
570-110333-10	Unit-2-LT-SO-N-B-D	Total/NA	Solid	8082	265774
570-110333-10 - DL	Unit-2-LT-SO-N-B-D	Total/NA	Solid	8082	265774
570-110333-11	Unit-2-LT-SO-N-A	Total/NA	Solid	8082	265774
570-110333-11 - DL	Unit-2-LT-SO-N-A	Total/NA	Solid	8082	265774
570-110333-12	Unit-2-LT-SO-S-A	Total/NA	Solid	8082	265774
570-110333-13	Unit-2-LT-SO-S-B	Total/NA	Solid	8082	265774
570-110333-13 - DL	Unit-2-LT-SO-S-B	Total/NA	Solid	8082	265774
570-110333-17	Unit-1-SST-(S)-SO-A	Total/NA	Solid	8082	265774
MB 570-265774/1-A	Method Blank	Total/NA	Solid	8082	265774

GC Semi VOA (Continued)

Analysis Batch: 266477 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-265774/2-A	Lab Control Sample	Total/NA	Solid	8082	265774
LCSD 570-265774/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	265774
570-110333-1 MS	Unit-2-SST-SO-W-S1-A	Total/NA	Solid	8082	265774
570-110333-1 MSD	Unit-2-SST-SO-W-S1-A	Total/NA	Solid	8082	265774

General Chemistry

Analysis Batch: 265875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110333-1	Unit-2-SST-SO-W-S1-A	Total/NA	Solid	Moisture	
570-110333-2	Unit-2-SST-SO-W-S1-B	Total/NA	Solid	Moisture	
570-110333-3	Unit-2-SST-SO-W-S1-C	Total/NA	Solid	Moisture	
570-110333-4	Unit-2-SST-SO-W-SW-A	Total/NA	Solid	Moisture	
570-110333-5	Unit-2-SST-SO-W-SW--B	Total/NA	Solid	Moisture	
570-110333-7	Unit-2-SST-SO-W-N-B	Total/NA	Solid	Moisture	
570-110333-8	Unit-2-SST-SO-W-N-C	Total/NA	Solid	Moisture	
570-110333-9	Unit-2-LT-SO-N-B	Total/NA	Solid	Moisture	
570-110333-10	Unit-2-LT-SO-N-B-D	Total/NA	Solid	Moisture	
570-110333-11	Unit-2-LT-SO-N-A	Total/NA	Solid	Moisture	
570-110333-12	Unit-2-LT-SO-S-A	Total/NA	Solid	Moisture	
570-110333-13	Unit-2-LT-SO-S-B	Total/NA	Solid	Moisture	
570-110333-17	Unit-1-SST-(S)-SO-A	Total/NA	Solid	Moisture	
570-110333-1 DU	Unit-2-SST-SO-W-S1-A	Total/NA	Solid	Moisture	
570-110333-12 DU	Unit-2-LT-SO-S-A	Total/NA	Solid	Moisture	

Analysis Batch: 266049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110333-6	Unit-2-SST-SO-W-N-A	Total/NA	Solid	Moisture	
570-110333-6 DU	Unit-2-SST-SO-W-N-A	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110333-1

Client Sample ID: Unit-2-SST-SO-W-S1-A

Lab Sample ID: 570-110333-1

Date Collected: 09/20/22 08:08
Date Received: 09/20/22 15:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.16 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL 4
Total/NA	Analysis	8082		100	1 mL	1 mL	266477	09/23/22 04:26	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.16 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL
Total/NA	Analysis	8082	DL	1000	1 mL	1 mL	266477	09/23/22 06:31	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			265875	09/20/22 17:01	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-S1-B

Lab Sample ID: 570-110333-2

Date Collected: 09/20/22 08:17
Date Received: 09/20/22 15:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.19 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	266477	09/22/22 13:32	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			265875	09/20/22 17:01	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-S1-C

Lab Sample ID: 570-110333-3

Date Collected: 09/20/22 08:25
Date Received: 09/20/22 15:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.11 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	266477	09/22/22 13:50	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.11 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL
Total/NA	Analysis	8082	DL	100	1 mL	1 mL	266477	09/23/22 04:44	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			265875	09/20/22 17:01	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-A

Lab Sample ID: 570-110333-4

Date Collected: 09/20/22 08:35
Date Received: 09/20/22 15:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.15 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	266477	09/22/22 14:08	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.15 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL
Total/NA	Analysis	8082	DL	100	1 mL	1 mL	266477	09/23/22 05:01	AJ2Q	EET CAL
	Instrument ID: GC58									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-110333-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-SO-W-SW-A
Lab Sample ID: 570-110333-4
Date Collected: 09/20/22 08:35
Matrix: Solid
Date Received: 09/20/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			265875	09/20/22 17:01	B4QL	EET CAL 4

Client Sample ID: Unit-2-SST-SO-W-SW--B
Lab Sample ID: 570-110333-5
Date Collected: 09/20/22 08:46
Matrix: Solid
Date Received: 09/20/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.19 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	266477	09/22/22 14:26	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.19 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL
Total/NA	Analysis	8082	DL	100	1 mL	1 mL	266477	09/23/22 05:19	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			265875	09/20/22 17:01	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-N-A
Lab Sample ID: 570-110333-6
Date Collected: 09/20/22 08:59
Matrix: Solid
Date Received: 09/20/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.13 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	266477	09/22/22 14:44	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			266049	09/20/22 16:38	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-N-B
Lab Sample ID: 570-110333-7
Date Collected: 09/20/22 09:08
Matrix: Solid
Date Received: 09/20/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.25 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	266477	09/22/22 15:02	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			265875	09/20/22 17:01	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-N-C
Lab Sample ID: 570-110333-8
Date Collected: 09/20/22 09:15
Matrix: Solid
Date Received: 09/20/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.21 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	266477	09/22/22 15:20	AJ2Q	EET CAL
	Instrument ID: GC58									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-110333-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-SO-W-N-C
Lab Sample ID: 570-110333-8
Date Collected: 09/20/22 09:15
Matrix: Solid
Date Received: 09/20/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			265875	09/20/22 17:01	B4QL	EET CAL 4

Client Sample ID: Unit-2-LT-SO-N-B
Lab Sample ID: 570-110333-9
Date Collected: 09/20/22 09:27
Matrix: Solid
Date Received: 09/20/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.15 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	266477	09/22/22 15:38	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			265875	09/20/22 17:01	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-SO-N-B-D
Lab Sample ID: 570-110333-10
Date Collected: 09/20/22 09:27
Matrix: Solid
Date Received: 09/20/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.12 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	266477	09/22/22 15:56	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.12 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	266477	09/23/22 05:37	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			265875	09/20/22 17:01	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-SO-N-A
Lab Sample ID: 570-110333-11
Date Collected: 09/20/22 09:34
Matrix: Solid
Date Received: 09/20/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.23 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	266477	09/22/22 16:14	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.23 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL
Total/NA	Analysis	8082	DL	50	1 mL	1 mL	266477	09/23/22 05:55	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			265875	09/20/22 17:01	B4QL	EET CAL
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-110333-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-SO-S-A
Lab Sample ID: 570-110333-12
Date Collected: 09/20/22 09:46
Matrix: Solid
Date Received: 09/20/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.14 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	266477	09/22/22 16:32	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			265875	09/20/22 17:01	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-SO-S-B
Lab Sample ID: 570-110333-13
Date Collected: 09/20/22 09:55
Matrix: Solid
Date Received: 09/20/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.18 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	266477	09/22/22 16:50	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.18 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL
Total/NA	Analysis	8082	DL	10	1 mL	1 mL	266477	09/23/22 06:13	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			265875	09/20/22 17:01	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-1-SST-(S)-SO-A
Lab Sample ID: 570-110333-17
Date Collected: 09/20/22 10:37
Matrix: Solid
Date Received: 09/20/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.23 g	10 mL	265774	09/20/22 15:32	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	266477	09/23/22 01:08	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			265875	09/20/22 17:01	B4QL	EET CAL
	Instrument ID: MOI2									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-110333-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110333-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110333-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-110333-1	Unit-2-SST-SO-W-S1-A	Solid	09/20/22 08:08	09/20/22 15:00
570-110333-2	Unit-2-SST-SO-W-S1-B	Solid	09/20/22 08:17	09/20/22 15:00
570-110333-3	Unit-2-SST-SO-W-S1-C	Solid	09/20/22 08:25	09/20/22 15:00
570-110333-4	Unit-2-SST-SO-W-SW-A	Solid	09/20/22 08:35	09/20/22 15:00
570-110333-5	Unit-2-SST-SO-W-SW--B	Solid	09/20/22 08:46	09/20/22 15:00
570-110333-6	Unit-2-SST-SO-W-N-A	Solid	09/20/22 08:59	09/20/22 15:00
570-110333-7	Unit-2-SST-SO-W-N-B	Solid	09/20/22 09:08	09/20/22 15:00
570-110333-8	Unit-2-SST-SO-W-N-C	Solid	09/20/22 09:15	09/20/22 15:00
570-110333-9	Unit-2-LT-SO-N-B	Solid	09/20/22 09:27	09/20/22 15:00
570-110333-10	Unit-2-LT-SO-N-B-D	Solid	09/20/22 09:27	09/20/22 15:00
570-110333-11	Unit-2-LT-SO-N-A	Solid	09/20/22 09:34	09/20/22 15:00
570-110333-12	Unit-2-LT-SO-S-A	Solid	09/20/22 09:46	09/20/22 15:00
570-110333-13	Unit-2-LT-SO-S-B	Solid	09/20/22 09:55	09/20/22 15:00
570-110333-17	Unit-1-SST-(S)-SO-A	Solid	09/20/22 10:37	09/20/22 15:00

110333

CHAIN OF CUSTODY RECORD

eurofins | Calscience

7440 Lincoln Way Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us26_sales@eurofinsus com or call us

570-110333 Chain of Custody

DATE: 9-20-2022

PAGE: 1 OF 2

LABORATORY CLIENT: Roux Associates Inc

ADDRESS: 5150 Pacific Coast Hwy Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312

E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

PO NO: 5700878 7

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Ian Cross ~~Daniel Zaragoza~~

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF

GLOBAL ID:

LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6 C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture				
1	Unit-2-SST-SO-W-S1-A	9-20-22	0808	Solid	1														X				X				
2	Unit-2-SST-SO-W-S1-B		0817		1														X				X				
3	Unit-2-SST-SO-W-S1-C		0825		1														X				X				
4	Unit-2-SST-SO-W-SW-A		0835		1														X				X				
5	Unit-2-SST-SO-W-SW-B		0846		1														X				X				
6	Unit-2-SST-SO-W-N-A		0859		1														X				X				
~~10~~	~~Unit-2-SST-SO W-N-A-D~~		—		1														X								
7	Unit-2-SST-SO W-N-B		0908		1														X				X				
8	Unit-2-SST-SO W-N-C		0915		1														X				X				
9	Unit-2-SST-SO N-B	↓	0927	↓	1														X				X				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
	EC	9-20-2022	13:30
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
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5.1/5.1 SC 12

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110733

eurofins

Calscience

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us26_sales@eurofinsus com or call us

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE 9-20-2022

PAGE 2 OF 2

LABORATORY CLIENT: Roux Associates Inc

ADDRESS: 5150 Pacific Coast Hwy Suite 450

CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804

TEL.: (818) 726-4265 / (951) 987-1124 / (818) 383-2312

E-MAIL.: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

PO NO: 5700878T

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Ian Cross ~~Daniel Zaragoza~~ IC

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF

GLOBAL ID:

LOG CODE:

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Hold	Moisture		
10	Unit-2-LT-SO N-B-D	9-20-22	0927	Solid	1														X					X	
11	Unit-2-LT-SO N-A		0934		1														X					X	
12	Unit-2-LT-SO S-A		0946		1														X					X	
13	Unit-2-LT-SO S-B		0955		1														X					X	
14	Unit-2-LT-20-F		1022	Soil	1																		X		
15	Unit-2-LT-20-G		1017		1																		X		
16	Unit-2-LT-20-H		1014		1																		X		
17	Unit-2-SST-(S)-SO-A		1037	Solid	1														X					X	

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
	AC EC	9-20-2022	13:30
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

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Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-110333-1

Login Number: 110333
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-110925-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
9/28/2022 3:17:31 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

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Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-110925-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-110925-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110925-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-110925-1

Comments
No additional comments.

Receipt
The samples were received on 9/23/2022 4:21 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

GC Semi VOA
Method 8082: Surrogate recovery for the following samples were outside control limits: Unit-2-SST-SO-W-SW-25H (570-110925-21) and Unit-2-SST-SO-W-SW-25K (570-110925-24). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-266961 and analytical batch 570-267368 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082: Surrogate recovery for the following sample was outside control limits: Unit-2-LT-25A (570-110925-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: Surrogate recovery for the following sample was outside control limits: Unit-2-SST-SO-W-SW-25C (570-110925-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Organic Prep
Method 3540C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-266962 and 570-266962.The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.
8082

Method 3540C: Due to the matrix, the following samples could not be concentrated to the final method required volume: Unit-2-LT-25A (570-110925-1), Unit-2-LT-25B (570-110925-2), Unit-2-LT-20I (570-110925-3), Unit-2-LT-15F (570-110925-4), Unit-2-LT-15G (570-110925-5), Unit-2-LT-15H (570-110925-6), Unit-2-LT-15I (570-110925-7), (570-110925-A-7 MS) and (570-110925-A-7 MSD). The reporting limits (RLs) are elevated proportionately. The final volume was changed from 10ml to 20ml.
8082

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

Detection Summary

Client: Roux Associates, Inc.
Job ID: 570-110925-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-25A — Lab Sample ID: 570-110925-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	22000		10000		ug/Kg	100	☼	8082	Total/NA
Aroclor-1254 - DL	300000		20000		ug/Kg	200	☼	8082	Total/NA
Aroclor-1260 - DL	76000		10000		ug/Kg	100	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-25B — Lab Sample ID: 570-110925-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	290		100		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	1000		100		ug/Kg	1	☼	8082	Total/NA
Aroclor-1254 - DL	2700		510		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-20I — Lab Sample ID: 570-110925-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	810		98		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	470		98		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-15F — Lab Sample ID: 570-110925-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1200		100		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	870		100		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-15G — Lab Sample ID: 570-110925-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	430		99		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	790		99		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-15H — Lab Sample ID: 570-110925-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	200		99		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	570		99		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-15I — Lab Sample ID: 570-110925-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1900		200		ug/Kg	2	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-15J — Lab Sample ID: 570-110925-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	96		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-15J-DUP — Lab Sample ID: 570-110925-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	130		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-RT-5A — Lab Sample ID: 570-110925-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	86		51		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110925-1

Client Sample ID: Unit-1/2-RT-5B — Lab Sample ID: 570-110925-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	240		49		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-S-15A — Lab Sample ID: 570-110925-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	130		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-25A — Lab Sample ID: 570-110925-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	950		250		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-25B — Lab Sample ID: 570-110925-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1400		260		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-25C — Lab Sample ID: 570-110925-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	160000		10000		ug/Kg	200	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-25D — Lab Sample ID: 570-110925-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	2200		260		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-25E — Lab Sample ID: 570-110925-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	960		100		ug/Kg	2	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-25F — Lab Sample ID: 570-110925-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	660		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-25G — Lab Sample ID: 570-110925-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	4000		520		ug/Kg	10	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-25G-DUP — Lab Sample ID: 570-110925-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	6300		1000		ug/Kg	20	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-25H — Lab Sample ID: 570-110925-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL2	250000		20000		ug/Kg	400	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-25I — Lab Sample ID: 570-110925-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	11000		1000		ug/Kg	20	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110925-1

Client Sample ID: Unit-2-SST-SO-W-SW-25J — Lab Sample ID: 570-110925-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	1000		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-25K — Lab Sample ID: 570-110925-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1700		510		ug/Kg	10	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-15K — Lab Sample ID: 570-110925-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	250		50		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: Unit-2-LT-25B **Lab Sample ID: 570-110925-2**
Date Collected: 09/23/22 12:12 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 14:31	1
Aroclor-1221	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 14:31	1
Aroclor-1232	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 14:31	1
Aroclor-1242	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 14:31	1
Aroclor-1248	**290**		100		ug/Kg	☼	09/23/22 17:01	09/26/22 14:31	1
Aroclor-1260	**1000**		100		ug/Kg	☼	09/23/22 17:01	09/26/22 14:31	1
Aroclor-1268	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*62*		*24 - 136*	*09/23/22 17:01*	*09/26/22 14:31*	*1*
DCB Decachlorobiphenyl (Surr)	*46*		*37 - 135*	*09/23/22 17:01*	*09/26/22 14:31*	*1*

Client Sample ID: Unit-2-LT-20I **Lab Sample ID: 570-110925-3**
Date Collected: 09/23/22 12:18 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		98		ug/Kg	☼	09/23/22 17:01	09/26/22 14:52	1
Aroclor-1221	ND		98		ug/Kg	☼	09/23/22 17:01	09/26/22 14:52	1
Aroclor-1232	ND		98		ug/Kg	☼	09/23/22 17:01	09/26/22 14:52	1
Aroclor-1242	ND		98		ug/Kg	☼	09/23/22 17:01	09/26/22 14:52	1
Aroclor-1248	ND		98		ug/Kg	☼	09/23/22 17:01	09/26/22 14:52	1
Aroclor-1254	**810**		98		ug/Kg	☼	09/23/22 17:01	09/26/22 14:52	1
Aroclor-1260	**470**		98		ug/Kg	☼	09/23/22 17:01	09/26/22 14:52	1
Aroclor-1262	ND		98		ug/Kg	☼	09/23/22 17:01	09/26/22 14:52	1
Aroclor-1268	ND		98		ug/Kg	☼	09/23/22 17:01	09/26/22 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*63*		*24 - 136*	*09/23/22 17:01*	*09/26/22 14:52*	*1*
DCB Decachlorobiphenyl (Surr)	*51*		*37 - 135*	*09/23/22 17:01*	*09/26/22 14:52*	*1*

Client Sample ID: Unit-2-LT-15F **Lab Sample ID: 570-110925-4**
Date Collected: 09/23/22 12:25 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 15:14	1
Aroclor-1221	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 15:14	1
Aroclor-1232	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 15:14	1
Aroclor-1242	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 15:14	1
Aroclor-1248	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 15:14	1
Aroclor-1254	**1200**		100		ug/Kg	☼	09/23/22 17:01	09/26/22 15:14	1
Aroclor-1260	**870**		100		ug/Kg	☼	09/23/22 17:01	09/26/22 15:14	1
Aroclor-1262	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 15:14	1
Aroclor-1268	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*62*		*24 - 136*	*09/23/22 17:01*	*09/26/22 15:14*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*37 - 135*	*09/23/22 17:01*	*09/26/22 15:14*	*1*

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

Client Sample ID: Unit-2-LT-15G **Lab Sample ID: 570-110925-5**
Date Collected: 09/23/22 12:37 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:35	1
Aroclor-1221	ND		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:35	1
Aroclor-1232	ND		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:35	1
Aroclor-1242	ND		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:35	1
Aroclor-1248	ND		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:35	1
Aroclor-1254	**430**		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:35	1
Aroclor-1260	**790**		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:35	1
Aroclor-1262	ND		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:35	1
Aroclor-1268	ND		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*75*		*24 - 136*	*09/23/22 17:01*	*09/26/22 15:35*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*37 - 135*	*09/23/22 17:01*	*09/26/22 15:35*	*1*

Client Sample ID: Unit-2-LT-15H **Lab Sample ID: 570-110925-6**
Date Collected: 09/23/22 12:36 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:56	1
Aroclor-1221	ND		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:56	1
Aroclor-1232	ND		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:56	1
Aroclor-1242	ND		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:56	1
Aroclor-1248	ND		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:56	1
Aroclor-1254	**200**		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:56	1
Aroclor-1260	**570**		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:56	1
Aroclor-1262	ND		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:56	1
Aroclor-1268	ND		99		ug/Kg	☼	09/23/22 17:01	09/26/22 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*59*		*24 - 136*	*09/23/22 17:01*	*09/26/22 15:56*	*1*
DCB Decachlorobiphenyl (Surr)	*57*		*37 - 135*	*09/23/22 17:01*	*09/26/22 15:56*	*1*

Client Sample ID: Unit-2-LT-15I **Lab Sample ID: 570-110925-7**
Date Collected: 09/23/22 12:43 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	F1	100		ug/Kg	☼	09/23/22 17:01	09/26/22 12:42	1
Aroclor-1221	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 12:42	1
Aroclor-1232	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 12:42	1
Aroclor-1242	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 12:42	1
Aroclor-1248	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 12:42	1
Aroclor-1254	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 12:42	1
Aroclor-1262	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 12:42	1
Aroclor-1268	ND		100		ug/Kg	☼	09/23/22 17:01	09/26/22 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*76*		*24 - 136*	*09/23/22 17:01*	*09/26/22 12:42*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*37 - 135*	*09/23/22 17:01*	*09/26/22 12:42*	*1*

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

Client Sample ID: Unit-2-LT-15J **Lab Sample ID: 570-110925-8**
Date Collected: 09/23/22 12:51 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:17	1
Aroclor-1221	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:17	1
Aroclor-1232	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:17	1
Aroclor-1242	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:17	1
Aroclor-1248	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:17	1
Aroclor-1254	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:17	1
Aroclor-1260	**96**		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:17	1
Aroclor-1262	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:17	1
Aroclor-1268	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*91*		*24 - 136*	*09/23/22 17:01*	*09/26/22 16:17*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*37 - 135*	*09/23/22 17:01*	*09/26/22 16:17*	*1*

Client Sample ID: Unit-2-LT-15J-DUP **Lab Sample ID: 570-110925-9**
Date Collected: 09/23/22 12:51 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:39	1
Aroclor-1221	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:39	1
Aroclor-1232	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:39	1
Aroclor-1242	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:39	1
Aroclor-1248	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:39	1
Aroclor-1254	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:39	1
Aroclor-1260	**130**		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:39	1
Aroclor-1262	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:39	1
Aroclor-1268	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*92*		*24 - 136*	*09/23/22 17:01*	*09/26/22 16:39*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*37 - 135*	*09/23/22 17:01*	*09/26/22 16:39*	*1*

Client Sample ID: Unit-2-RT-5A **Lab Sample ID: 570-110925-10**
Date Collected: 09/23/22 13:29 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:00	1
Aroclor-1221	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:00	1
Aroclor-1232	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:00	1
Aroclor-1242	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:00	1
Aroclor-1248	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:00	1
Aroclor-1254	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:00	1
Aroclor-1260	**86**		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:00	1
Aroclor-1262	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:00	1
Aroclor-1268	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*99*		*24 - 136*	*09/23/22 17:01*	*09/26/22 17:00*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*37 - 135*	*09/23/22 17:01*	*09/26/22 17:00*	*1*

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

Client Sample ID: Unit-1/2-RT-5B **Lab Sample ID: 570-110925-11**
Date Collected: 09/23/22 13:27 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49		ug/Kg	☼	09/23/22 17:01	09/26/22 17:21	1
Aroclor-1221	ND		49		ug/Kg	☼	09/23/22 17:01	09/26/22 17:21	1
Aroclor-1232	ND		49		ug/Kg	☼	09/23/22 17:01	09/26/22 17:21	1
Aroclor-1242	ND		49		ug/Kg	☼	09/23/22 17:01	09/26/22 17:21	1
Aroclor-1248	ND		49		ug/Kg	☼	09/23/22 17:01	09/26/22 17:21	1
Aroclor-1254	ND		49		ug/Kg	☼	09/23/22 17:01	09/26/22 17:21	1
Aroclor-1260	**240**		49		ug/Kg	☼	09/23/22 17:01	09/26/22 17:21	1
Aroclor-1262	ND		49		ug/Kg	☼	09/23/22 17:01	09/26/22 17:21	1
Aroclor-1268	ND		49		ug/Kg	☼	09/23/22 17:01	09/26/22 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*58*		*24 - 136*	*09/23/22 17:01*	*09/26/22 17:21*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*37 - 135*	*09/23/22 17:01*	*09/26/22 17:21*	*1*

Client Sample ID: Unit-2-SST-SO-W-S-15A **Lab Sample ID: 570-110925-12**
Date Collected: 09/23/22 13:32 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:42	1
Aroclor-1221	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:42	1
Aroclor-1232	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:42	1
Aroclor-1242	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:42	1
Aroclor-1248	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:42	1
Aroclor-1254	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:42	1
Aroclor-1260	**130**		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:42	1
Aroclor-1262	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:42	1
Aroclor-1268	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*96*		*24 - 136*	*09/23/22 17:01*	*09/26/22 17:42*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*37 - 135*	*09/23/22 17:01*	*09/26/22 17:42*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-25A **Lab Sample ID: 570-110925-13**
Date Collected: 09/23/22 13:36 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 18:04	1
Aroclor-1221	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 18:04	1
Aroclor-1232	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 18:04	1
Aroclor-1242	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 18:04	1
Aroclor-1248	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 18:04	1
Aroclor-1254	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 18:04	1
Aroclor-1262	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 18:04	1
Aroclor-1268	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*69*		*24 - 136*	*09/23/22 17:01*	*09/26/22 18:04*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*37 - 135*	*09/23/22 17:01*	*09/26/22 18:04*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-SW-25B **Lab Sample ID: 570-110925-14**
Date Collected: 09/23/22 13:44 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 18:25	1
Aroclor-1221	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 18:25	1
Aroclor-1232	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 18:25	1
Aroclor-1242	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 18:25	1
Aroclor-1248	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 18:25	1
Aroclor-1254	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 18:25	1
Aroclor-1262	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 18:25	1
Aroclor-1268	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*	*09/23/22 17:01*	*09/26/22 18:25*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*37 - 135*	*09/23/22 17:01*	*09/26/22 18:25*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-25D **Lab Sample ID: 570-110925-16**
Date Collected: 09/23/22 13:54 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 19:08	1
Aroclor-1221	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 19:08	1
Aroclor-1232	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 19:08	1
Aroclor-1242	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 19:08	1
Aroclor-1248	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 19:08	1
Aroclor-1254	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 19:08	1
Aroclor-1262	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 19:08	1
Aroclor-1268	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*100*		*24 - 136*	*09/23/22 17:01*	*09/26/22 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 135*	*09/23/22 17:01*	*09/26/22 19:08*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-25E **Lab Sample ID: 570-110925-17**
Date Collected: 09/23/22 14:01 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 19:29	1
Aroclor-1221	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 19:29	1
Aroclor-1232	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 19:29	1
Aroclor-1242	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 19:29	1
Aroclor-1248	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 19:29	1
Aroclor-1254	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 19:29	1
Aroclor-1262	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 19:29	1
Aroclor-1268	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*90*		*24 - 136*	*09/23/22 17:01*	*09/26/22 19:29*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*37 - 135*	*09/23/22 17:01*	*09/26/22 19:29*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-SW-25F **Lab Sample ID: 570-110925-18**
Date Collected: 09/23/22 14:06 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 19:50	1
Aroclor-1221	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 19:50	1
Aroclor-1232	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 19:50	1
Aroclor-1242	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 19:50	1
Aroclor-1248	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 19:50	1
Aroclor-1254	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 19:50	1
Aroclor-1260	**660**		50		ug/Kg	☼	09/23/22 17:01	09/26/22 19:50	1
Aroclor-1262	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 19:50	1
Aroclor-1268	ND		50		ug/Kg	☼	09/23/22 17:01	09/26/22 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*83*		*24 - 136*	*09/23/22 17:01*	*09/26/22 19:50*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*37 - 135*	*09/23/22 17:01*	*09/26/22 19:50*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-25G **Lab Sample ID: 570-110925-19**
Date Collected: 09/23/22 14:10 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 20:12	1
Aroclor-1221	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 20:12	1
Aroclor-1232	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 20:12	1
Aroclor-1242	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 20:12	1
Aroclor-1248	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 20:12	1
Aroclor-1254	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 20:12	1
Aroclor-1262	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 20:12	1
Aroclor-1268	ND		52		ug/Kg	☼	09/23/22 17:01	09/26/22 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*98*		*24 - 136*	*09/23/22 17:01*	*09/26/22 20:12*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*37 - 135*	*09/23/22 17:01*	*09/26/22 20:12*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-25G-DUP **Lab Sample ID: 570-110925-20**
Date Collected: 09/23/22 14:10 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 20:33	1
Aroclor-1221	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 20:33	1
Aroclor-1232	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 20:33	1
Aroclor-1242	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 20:33	1
Aroclor-1248	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 20:33	1
Aroclor-1254	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 20:33	1
Aroclor-1262	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 20:33	1
Aroclor-1268	ND		51		ug/Kg	☼	09/23/22 17:01	09/26/22 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*106*		*24 - 136*	*09/23/22 17:01*	*09/26/22 20:33*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 135*	*09/23/22 17:01*	*09/26/22 20:33*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-SW-25I **Lab Sample ID: 570-110925-22**
Date Collected: 09/23/22 14:23 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	09/23/22 17:02	09/26/22 10:43	1
Aroclor-1221	ND		52		ug/Kg	☼	09/23/22 17:02	09/26/22 10:43	1
Aroclor-1232	ND		52		ug/Kg	☼	09/23/22 17:02	09/26/22 10:43	1
Aroclor-1242	ND		52		ug/Kg	☼	09/23/22 17:02	09/26/22 10:43	1
Aroclor-1248	ND		52		ug/Kg	☼	09/23/22 17:02	09/26/22 10:43	1
Aroclor-1254	ND		52		ug/Kg	☼	09/23/22 17:02	09/26/22 10:43	1
Aroclor-1262	ND		52		ug/Kg	☼	09/23/22 17:02	09/26/22 10:43	1
Aroclor-1268	ND		52		ug/Kg	☼	09/23/22 17:02	09/26/22 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*79*		*24 - 136*	*09/23/22 17:02*	*09/26/22 10:43*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*37 - 135*	*09/23/22 17:02*	*09/26/22 10:43*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-25J **Lab Sample ID: 570-110925-23**
Date Collected: 09/23/22 14:27 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:01	1
Aroclor-1221	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:01	1
Aroclor-1232	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:01	1
Aroclor-1242	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:01	1
Aroclor-1248	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:01	1
Aroclor-1254	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:01	1
Aroclor-1260	**1000**		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:01	1
Aroclor-1262	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:01	1
Aroclor-1268	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*78*		*24 - 136*	*09/23/22 17:02*	*09/26/22 11:01*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*37 - 135*	*09/23/22 17:02*	*09/26/22 11:01*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-25K **Lab Sample ID: 570-110925-24**
Date Collected: 09/23/22 14:30 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:19	1
Aroclor-1221	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:19	1
Aroclor-1232	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:19	1
Aroclor-1242	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:19	1
Aroclor-1248	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:19	1
Aroclor-1254	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:19	1
Aroclor-1262	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:19	1
Aroclor-1268	ND		51		ug/Kg	☼	09/23/22 17:02	09/26/22 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*0.3*	*S1-*	*24 - 136*	*09/23/22 17:02*	*09/26/22 11:19*	*1*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*37 - 135*	*09/23/22 17:02*	*09/26/22 11:19*	*1*

Client: Roux Associates, Inc.
Job ID: 570-110925-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

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

Client Sample ID: Unit-2-LT-15K
Date Collected: 09/23/22 13:00
Date Received: 09/23/22 16:21

Lab Sample ID: 570-110925-25
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/23/22 17:02	09/26/22 11:37	1
Aroclor-1221	ND		50		ug/Kg	☼	09/23/22 17:02	09/26/22 11:37	1
Aroclor-1232	ND		50		ug/Kg	☼	09/23/22 17:02	09/26/22 11:37	1
Aroclor-1242	ND		50		ug/Kg	☼	09/23/22 17:02	09/26/22 11:37	1
Aroclor-1248	ND		50		ug/Kg	☼	09/23/22 17:02	09/26/22 11:37	1
Aroclor-1254	ND		50		ug/Kg	☼	09/23/22 17:02	09/26/22 11:37	1
Aroclor-1260	**250**		50		ug/Kg	☼	09/23/22 17:02	09/26/22 11:37	1
Aroclor-1262	ND		50		ug/Kg	☼	09/23/22 17:02	09/26/22 11:37	1
Aroclor-1268	ND		50		ug/Kg	☼	09/23/22 17:02	09/26/22 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*64*		*24 - 136*	*09/23/22 17:02*	*09/26/22 11:37*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*37 - 135*	*09/23/22 17:02*	*09/26/22 11:37*	*1*

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

Client Sample ID: Unit-2-LT-25A **Lab Sample ID: 570-110925-1**
Date Collected: 09/23/22 12:05 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		10000		ug/Kg	☼	09/23/22 17:01	09/26/22 21:15	100
Aroclor-1221	ND		10000		ug/Kg	☼	09/23/22 17:01	09/26/22 21:15	100
Aroclor-1232	ND		10000		ug/Kg	☼	09/23/22 17:01	09/26/22 21:15	100
Aroclor-1242	ND		10000		ug/Kg	☼	09/23/22 17:01	09/26/22 21:15	100
Aroclor-1248	**22000**		10000		ug/Kg	☼	09/23/22 17:01	09/26/22 21:15	100
Aroclor-1254	**300000**		20000		ug/Kg	☼	09/23/22 17:01	09/27/22 09:33	200
Aroclor-1260	**76000**		10000		ug/Kg	☼	09/23/22 17:01	09/26/22 21:15	100
Aroclor-1262	ND		10000		ug/Kg	☼	09/23/22 17:01	09/26/22 21:15	100
Aroclor-1268	ND		10000		ug/Kg	☼	09/23/22 17:01	09/26/22 21:15	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*81*		*24 - 136*	*09/23/22 17:01*	*09/26/22 21:15*	*100*
Tetrachloro-m-xylene (Surr)	*106*		*24 - 136*	*09/23/22 17:01*	*09/27/22 09:33*	*200*
DCB Decachlorobiphenyl (Surr)	*254*	*S1+*	*37 - 135*	*09/23/22 17:01*	*09/26/22 21:15*	*100*
DCB Decachlorobiphenyl (Surr)	*121*		*37 - 135*	*09/23/22 17:01*	*09/27/22 09:33*	*200*

Client Sample ID: Unit-2-LT-25B **Lab Sample ID: 570-110925-2**
Date Collected: 09/23/22 12:12 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1254	**2700**		510		ug/Kg	☼	09/23/22 17:01	09/27/22 09:54	5
Aroclor-1262	ND		510		ug/Kg	☼	09/23/22 17:01	09/27/22 09:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*65*		*24 - 136*	*09/23/22 17:01*	*09/27/22 09:54*	*5*
DCB Decachlorobiphenyl (Surr)	*39*		*37 - 135*	*09/23/22 17:01*	*09/27/22 09:54*	*5*

Client Sample ID: Unit-2-LT-15I **Lab Sample ID: 570-110925-7**
Date Collected: 09/23/22 12:43 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**1900**		200		ug/Kg	☼	09/23/22 17:01	09/26/22 20:54	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*79*		*24 - 136*	*09/23/22 17:01*	*09/26/22 20:54*	*2*
DCB Decachlorobiphenyl (Surr)	*84*		*37 - 135*	*09/23/22 17:01*	*09/26/22 20:54*	*2*

Client Sample ID: Unit-2-SST-SO-W-SW-25A **Lab Sample ID: 570-110925-13**
Date Collected: 09/23/22 13:36 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**950**		250		ug/Kg	☼	09/23/22 17:01	09/27/22 10:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*63*		*24 - 136*	*09/23/22 17:01*	*09/27/22 10:16*	*5*
DCB Decachlorobiphenyl (Surr)	*78*		*37 - 135*	*09/23/22 17:01*	*09/27/22 10:16*	*5*

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

Client Sample ID: Unit-2-SST-SO-W-SW-25B — **Lab Sample ID: 570-110925-14**
Date Collected: 09/23/22 13:44 — **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**1400**		260		ug/Kg	☼	09/23/22 17:01	09/27/22 10:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*86*		*24 - 136*	*09/23/22 17:01*	*09/27/22 10:37*	*5*
DCB Decachlorobiphenyl (Surr)	*74*		*37 - 135*	*09/23/22 17:01*	*09/27/22 10:37*	*5*

Client Sample ID: Unit-2-SST-SO-W-SW-25C — **Lab Sample ID: 570-110925-15**
Date Collected: 09/23/22 13:50 — **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		10000		ug/Kg	☼	09/23/22 17:01	09/27/22 10:58	200
Aroclor-1221	ND		10000		ug/Kg	☼	09/23/22 17:01	09/27/22 10:58	200
Aroclor-1232	ND		10000		ug/Kg	☼	09/23/22 17:01	09/27/22 10:58	200
Aroclor-1242	ND		10000		ug/Kg	☼	09/23/22 17:01	09/27/22 10:58	200
Aroclor-1248	ND		10000		ug/Kg	☼	09/23/22 17:01	09/27/22 10:58	200
Aroclor-1254	ND		10000		ug/Kg	☼	09/23/22 17:01	09/27/22 10:58	200
Aroclor-1260	**160000**		10000		ug/Kg	☼	09/23/22 17:01	09/27/22 10:58	200
Aroclor-1262	ND		10000		ug/Kg	☼	09/23/22 17:01	09/27/22 10:58	200
Aroclor-1268	ND		10000		ug/Kg	☼	09/23/22 17:01	09/27/22 10:58	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*170*	*S1+*	*24 - 136*	*09/23/22 17:01*	*09/27/22 10:58*	*200*
DCB Decachlorobiphenyl (Surr)	*834*	*S1+*	*37 - 135*	*09/23/22 17:01*	*09/27/22 10:58*	*200*

Client Sample ID: Unit-2-SST-SO-W-SW-25D — **Lab Sample ID: 570-110925-16**
Date Collected: 09/23/22 13:54 — **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**2200**		260		ug/Kg	☼	09/23/22 17:01	09/27/22 11:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*	*09/23/22 17:01*	*09/27/22 11:20*	*5*
DCB Decachlorobiphenyl (Surr)	*75*		*37 - 135*	*09/23/22 17:01*	*09/27/22 11:20*	*5*

Client Sample ID: Unit-2-SST-SO-W-SW-25E — **Lab Sample ID: 570-110925-17**
Date Collected: 09/23/22 14:01 — **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**960**		100		ug/Kg	☼	09/23/22 17:01	09/27/22 13:25	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*89*		*24 - 136*	*09/23/22 17:01*	*09/27/22 13:25*	*2*
DCB Decachlorobiphenyl (Surr)	*70*		*37 - 135*	*09/23/22 17:01*	*09/27/22 13:25*	*2*

Client Sample ID: Unit-2-SST-SO-W-SW-25G — **Lab Sample ID: 570-110925-19**
Date Collected: 09/23/22 14:10 — **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**4000**		520		ug/Kg	☼	09/23/22 17:01	09/27/22 17:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*88*		*24 - 136*	*09/23/22 17:01*	*09/27/22 17:03*	*10*

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

Client Sample ID: Unit-2-SST-SO-W-SW-25G — **Lab Sample ID: 570-110925-19**
Date Collected: 09/23/22 14:10 — **Matrix: Solid**
Date Received: 09/23/22 16:21

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 135*	*09/23/22 17:01*	*09/27/22 17:03*	*10*

Client Sample ID: Unit-2-SST-SO-W-SW-25G-DUP — **Lab Sample ID: 570-110925-20**
Date Collected: 09/23/22 14:10 — **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**6300**		1000		ug/Kg	☼	09/23/22 17:01	09/27/22 17:24	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*112*		*24 - 136*	*09/23/22 17:01*	*09/27/22 17:24*	*20*
DCB Decachlorobiphenyl (Surr)	*113*		*37 - 135*	*09/23/22 17:01*	*09/27/22 17:24*	*20*

Client Sample ID: Unit-2-SST-SO-W-SW-25H — **Lab Sample ID: 570-110925-21**
Date Collected: 09/23/22 14:17 — **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		10000		ug/Kg	☼	09/23/22 17:02	09/26/22 11:55	200
Aroclor-1242	ND		10000		ug/Kg	☼	09/23/22 17:02	09/26/22 11:55	200
Aroclor-1248	ND		10000		ug/Kg	☼	09/23/22 17:02	09/26/22 11:55	200
Aroclor-1254	ND		10000		ug/Kg	☼	09/23/22 17:02	09/26/22 11:55	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*150*	*S1+*	*24 - 136*	*09/23/22 17:02*	*09/26/22 11:55*	*200*
DCB Decachlorobiphenyl (Surr)	*264*	*S1+*	*37 - 135*	*09/23/22 17:02*	*09/26/22 11:55*	*200*

Client Sample ID: Unit-2-SST-SO-W-SW-25I — **Lab Sample ID: 570-110925-22**
Date Collected: 09/23/22 14:23 — **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**11000**		1000		ug/Kg	☼	09/23/22 17:02	09/26/22 12:13	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*81*		*24 - 136*	*09/23/22 17:02*	*09/26/22 12:13*	*20*

Client Sample ID: Unit-2-SST-SO-W-SW-25K — **Lab Sample ID: 570-110925-24**
Date Collected: 09/23/22 14:30 — **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**1700**		510		ug/Kg	☼	09/23/22 17:02	09/26/22 12:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*0.6*	*S1-*	*24 - 136*	*09/23/22 17:02*	*09/26/22 12:31*	*10*
DCB Decachlorobiphenyl (Surr)	*6*	*S1-*	*37 - 135*	*09/23/22 17:02*	*09/26/22 12:31*	*10*

Client: Roux Associates, Inc.
Job ID: 570-110925-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL2

Client Sample ID: Unit-2-SST-SO-W-SW-25H
Lab Sample ID: 570-110925-21
Date Collected: 09/23/22 14:17
Matrix: Solid
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1221	ND		20000		ug/Kg	☼	09/23/22 17:02	09/26/22 12:49	400
Aroclor-1232	ND		20000		ug/Kg	☼	09/23/22 17:02	09/26/22 12:49	400
Aroclor-1260	**250000**		20000		ug/Kg	☼	09/23/22 17:02	09/26/22 12:49	400
Aroclor-1262	ND		20000		ug/Kg	☼	09/23/22 17:02	09/26/22 12:49	400
Aroclor-1268	ND		20000		ug/Kg	☼	09/23/22 17:02	09/26/22 12:49	400

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*158*	*S1+*	*24 - 136*	*09/23/22 17:02*	*09/26/22 12:49*	*400*
DCB Decachlorobiphenyl (Surr)	*271*	*S1+*	*37 - 135*	*09/23/22 17:02*	*09/26/22 12:49*	*400*

General Chemistry

Client Sample ID: Unit-2-LT-25A **Lab Sample ID: 570-110925-1**
Date Collected: 09/23/22 12:05 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.4		0.1		%			09/24/22 07:44	1

Client Sample ID: Unit-2-LT-25B **Lab Sample ID: 570-110925-2**
Date Collected: 09/23/22 12:12 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.3		0.1		%			09/24/22 07:44	1

Client Sample ID: Unit-2-LT-20I **Lab Sample ID: 570-110925-3**
Date Collected: 09/23/22 12:18 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.3		0.1		%			09/24/22 07:44	1

Client Sample ID: Unit-2-LT-15F **Lab Sample ID: 570-110925-4**
Date Collected: 09/23/22 12:25 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.3		0.1		%			09/24/22 07:44	1

Client Sample ID: Unit-2-LT-15G **Lab Sample ID: 570-110925-5**
Date Collected: 09/23/22 12:37 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.3		0.1		%			09/24/22 07:44	1

Client Sample ID: Unit-2-LT-15H **Lab Sample ID: 570-110925-6**
Date Collected: 09/23/22 12:36 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.3		0.1		%			09/24/22 07:44	1

Client Sample ID: Unit-2-LT-15I **Lab Sample ID: 570-110925-7**
Date Collected: 09/23/22 12:43 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.6		0.1		%			09/24/22 07:44	1

Client Sample ID: Unit-2-LT-15J **Lab Sample ID: 570-110925-8**
Date Collected: 09/23/22 12:51 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.2		0.1		%			09/24/22 07:44	1

Client Sample ID: Unit-2-LT-15J-DUP **Lab Sample ID: 570-110925-9**
Date Collected: 09/23/22 12:51 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.3		0.1		%			09/24/22 07:44	1

General Chemistry

Client Sample ID: Unit-2-RT-5A **Lab Sample ID: 570-110925-10**
Date Collected: 09/23/22 13:29 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.6		0.1		%			09/24/22 07:44	1

Client Sample ID: Unit-1/2-RT-5B **Lab Sample ID: 570-110925-11**
Date Collected: 09/23/22 13:27 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.6		0.1		%			09/24/22 07:44	1

Client Sample ID: Unit-2-SST-SO-W-S-15A **Lab Sample ID: 570-110925-12**
Date Collected: 09/23/22 13:32 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		0.1		%			09/24/22 07:44	1

Client Sample ID: Unit-2-SST-SO-W-SW-25A **Lab Sample ID: 570-110925-13**
Date Collected: 09/23/22 13:36 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.4		0.1		%			09/24/22 07:44	1

Client Sample ID: Unit-2-SST-SO-W-SW-25B **Lab Sample ID: 570-110925-14**
Date Collected: 09/23/22 13:44 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.1		0.1		%			09/24/22 07:49	1

Client Sample ID: Unit-2-SST-SO-W-SW-25C **Lab Sample ID: 570-110925-15**
Date Collected: 09/23/22 13:50 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.8		0.1		%			09/24/22 07:49	1

Client Sample ID: Unit-2-SST-SO-W-SW-25D **Lab Sample ID: 570-110925-16**
Date Collected: 09/23/22 13:54 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.4		0.1		%			09/24/22 07:49	1

Client Sample ID: Unit-2-SST-SO-W-SW-25E **Lab Sample ID: 570-110925-17**
Date Collected: 09/23/22 14:01 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		0.1		%			09/24/22 07:49	1

Client Sample ID: Unit-2-SST-SO-W-SW-25F **Lab Sample ID: 570-110925-18**
Date Collected: 09/23/22 14:06 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.5		0.1		%			09/24/22 07:49	1

General Chemistry

Client Sample ID: Unit-2-SST-SO-W-SW-25G **Lab Sample ID: 570-110925-19**
Date Collected: 09/23/22 14:10 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.1		0.1		%			09/24/22 07:49	1

Client Sample ID: Unit-2-SST-SO-W-SW-25G-DUP **Lab Sample ID: 570-110925-20**
Date Collected: 09/23/22 14:10 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.6		0.1		%			09/24/22 07:49	1

Client Sample ID: Unit-2-SST-SO-W-SW-25H **Lab Sample ID: 570-110925-21**
Date Collected: 09/23/22 14:17 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		0.1		%			09/24/22 07:49	1

Client Sample ID: Unit-2-SST-SO-W-SW-25I **Lab Sample ID: 570-110925-22**
Date Collected: 09/23/22 14:23 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		0.1		%			09/24/22 07:49	1

Client Sample ID: Unit-2-SST-SO-W-SW-25J **Lab Sample ID: 570-110925-23**
Date Collected: 09/23/22 14:27 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.8		0.1		%			09/24/22 07:49	1

Client Sample ID: Unit-2-SST-SO-W-SW-25K **Lab Sample ID: 570-110925-24**
Date Collected: 09/23/22 14:30 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.3		0.1		%			09/24/22 07:49	1

Client Sample ID: Unit-2-LT-15K **Lab Sample ID: 570-110925-25**
Date Collected: 09/23/22 13:00 **Matrix: Solid**
Date Received: 09/23/22 16:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		0.1		%			09/24/22 07:49	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110925-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-110925-1 - DL	Unit-2-LT-25A	81	254 S1+
570-110925-1 - DL	Unit-2-LT-25A	106	121
570-110925-2	Unit-2-LT-25B	62	46
570-110925-2 - DL	Unit-2-LT-25B	65	39
570-110925-3	Unit-2-LT-20I	63	51
570-110925-4	Unit-2-LT-15F	62	62
570-110925-5	Unit-2-LT-15G	75	72
570-110925-6	Unit-2-LT-15H	59	57
570-110925-7 - DL	Unit-2-LT-15I	79	84
570-110925-7	Unit-2-LT-15I	76	100
570-110925-7 MS	Unit-2-LT-15I	77	65
570-110925-7 MSD	Unit-2-LT-15I	82	80
570-110925-8	Unit-2-LT-15J	91	78
570-110925-9	Unit-2-LT-15J-DUP	92	88
570-110925-10	Unit-2-RT-5A	99	97
570-110925-11	Unit-1/2-RT-5B	58	86
570-110925-12	Unit-2-SST-SO-W-S-15A	96	94
570-110925-13	Unit-2-SST-SO-W-SW-25A	69	83
570-110925-13 - DL	Unit-2-SST-SO-W-SW-25A	63	78
570-110925-14	Unit-2-SST-SO-W-SW-25B	95	72
570-110925-14 - DL	Unit-2-SST-SO-W-SW-25B	86	74
570-110925-15 - DL	Unit-2-SST-SO-W-SW-25C	170 S1+	834 S1+
570-110925-16	Unit-2-SST-SO-W-SW-25D	100	79
570-110925-16 - DL	Unit-2-SST-SO-W-SW-25D	95	75
570-110925-17	Unit-2-SST-SO-W-SW-25E	90	94
570-110925-17 - DL	Unit-2-SST-SO-W-SW-25E	89	70
570-110925-18	Unit-2-SST-SO-W-SW-25F	83	88
570-110925-19	Unit-2-SST-SO-W-SW-25G	98	74
570-110925-19 - DL	Unit-2-SST-SO-W-SW-25G	88	81
570-110925-20	Unit-2-SST-SO-W-SW-25G-DUP	106	79
570-110925-20 - DL	Unit-2-SST-SO-W-SW-25G-DUP	112	113
570-110925-21 - DL	Unit-2-SST-SO-W-SW-25H	150 S1+	264 S1+
570-110925-21 - DL2	Unit-2-SST-SO-W-SW-25H	158 S1+	271 S1+
570-110925-22 - DL	Unit-2-SST-SO-W-SW-25I	81	
570-110925-22	Unit-2-SST-SO-W-SW-25I	79	103
570-110925-23	Unit-2-SST-SO-W-SW-25J	78	78
570-110925-24 - DL	Unit-2-SST-SO-W-SW-25K	0.6 S1-	6 S1-
570-110925-24	Unit-2-SST-SO-W-SW-25K	0.3 S1-	0 S1-
570-110925-25	Unit-2-LT-15K	64	88
LCS 570-266961/2-A	Lab Control Sample	86	80
LCS 570-266962/2-A	Lab Control Sample	80	95
LCSD 570-266961/3-A	Lab Control Sample Dup	95	91
LCSD 570-266962/3-A	Lab Control Sample Dup	84	98
MB 570-266961/1-A	Method Blank	92	106
MB 570-266962/1-A	Method Blank	83	102

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

Surrogate Summary

Client: Roux Associates, Inc.
Job ID: 570-110925-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-266961/1-A

Matrix: Solid
Analysis Batch: 267368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 266961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		09/23/22 17:01	09/26/22 11:38	1
Aroclor-1221	ND		50		ug/Kg		09/23/22 17:01	09/26/22 11:38	1
Aroclor-1232	ND		50		ug/Kg		09/23/22 17:01	09/26/22 11:38	1
Aroclor-1242	ND		50		ug/Kg		09/23/22 17:01	09/26/22 11:38	1
Aroclor-1248	ND		50		ug/Kg		09/23/22 17:01	09/26/22 11:38	1
Aroclor-1254	ND		50		ug/Kg		09/23/22 17:01	09/26/22 11:38	1
Aroclor-1260	ND		50		ug/Kg		09/23/22 17:01	09/26/22 11:38	1
Aroclor-1262	ND		50		ug/Kg		09/23/22 17:01	09/26/22 11:38	1
Aroclor-1268	ND		50		ug/Kg		09/23/22 17:01	09/26/22 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*92*		*24 - 136*	*09/23/22 17:01*	*09/26/22 11:38*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*37 - 135*	*09/23/22 17:01*	*09/26/22 11:38*	*1*

Lab Sample ID: LCS 570-266961/2-A

Matrix: Solid
Analysis Batch: 267368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 266961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	104.4		ug/Kg		104	46 - 131
Aroclor-1260	100	96.95		ug/Kg		97	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*86*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*80*		*37 - 135*

Lab Sample ID: LCSD 570-266961/3-A

Matrix: Solid
Analysis Batch: 267368

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 266961

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	118.2		ug/Kg		118	46 - 131	12	32
Aroclor-1260	100	119.3		ug/Kg		119	40 - 150	21	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 135*

Lab Sample ID: 570-110925-7 MS

Matrix: Solid
Analysis Batch: 267368

Client Sample ID: Unit-2-LT-15I
Prep Type: Total/NA
Prep Batch: 266961

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND	F1	103	ND	F1	ug/Kg	☼	0	29 - 174
Aroclor-1260	2100		103	1202	4	ug/Kg	☼	-857	20 - 180

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

Lab Sample ID: 570-110925-7 MS
Matrix: Solid
Analysis Batch: 267368

Client Sample ID: Unit-2-LT-15I
Prep Type: Total/NA
Prep Batch: 266961

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*77*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*65*		*37 - 135*

Lab Sample ID: 570-110925-7 MSD
Matrix: Solid
Analysis Batch: 267368

Client Sample ID: Unit-2-LT-15I
Prep Type: Total/NA
Prep Batch: 266961

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND	F1	102	ND	F1	ug/Kg	☼	0	29 - 174	NC	40
Aroclor-1260	2100		102	1324	4	ug/Kg	☼	-747	20 - 180	10	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*82*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*80*		*37 - 135*

Lab Sample ID: MB 570-266962/1-A
Matrix: Solid
Analysis Batch: 267297

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 266962

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		09/23/22 17:02	09/26/22 10:07	1
Aroclor-1221	ND		50		ug/Kg		09/23/22 17:02	09/26/22 10:07	1
Aroclor-1232	ND		50		ug/Kg		09/23/22 17:02	09/26/22 10:07	1
Aroclor-1242	ND		50		ug/Kg		09/23/22 17:02	09/26/22 10:07	1
Aroclor-1248	ND		50		ug/Kg		09/23/22 17:02	09/26/22 10:07	1
Aroclor-1254	ND		50		ug/Kg		09/23/22 17:02	09/26/22 10:07	1
Aroclor-1260	ND		50		ug/Kg		09/23/22 17:02	09/26/22 10:07	1
Aroclor-1262	ND		50		ug/Kg		09/23/22 17:02	09/26/22 10:07	1
Aroclor-1268	ND		50		ug/Kg		09/23/22 17:02	09/26/22 10:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	*83*		*24 - 136*	*09/23/22 17:02*	*09/26/22 10:07*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*37 - 135*	*09/23/22 17:02*	*09/26/22 10:07*	*1*

Lab Sample ID: LCS 570-266962/2-A
Matrix: Solid
Analysis Batch: 267297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 266962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	83.13		ug/Kg		83	46 - 131
Aroclor-1260	100	132.5		ug/Kg		133	40 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*80*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 135*

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

Lab Sample ID: LCSD 570-266962/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 267297 — **Prep Batch: 266962**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			100	89.02		ug/Kg		89	46 - 131	7	32
Aroclor-1260			100	131.4		ug/Kg		131	40 - 150	1	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*84*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*98*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-110925-2 DU — **Client Sample ID: Unit-2-LT-25B**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 267139

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	0.3			0.3		%				9	10

Lab Sample ID: 570-110925-11 DU — **Client Sample ID: Unit-1/2-RT-5B**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 267139

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	1.6			1.6		%				0	10

Lab Sample ID: 570-110925-14 DU — **Client Sample ID: Unit-2-SST-SO-W-SW-25B**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 267140

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	2.1			2.1		%				0.5	10

Lab Sample ID: 570-110925-24 DU — **Client Sample ID: Unit-2-SST-SO-W-SW-25K**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 267140

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	2.3			2.3		%				0	10

GC Semi VOA

Prep Batch: 266961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110925-1 - DL	Unit-2-LT-25A	Total/NA	Solid	3540C	
570-110925-2 - DL	Unit-2-LT-25B	Total/NA	Solid	3540C	
570-110925-2	Unit-2-LT-25B	Total/NA	Solid	3540C	
570-110925-3	Unit-2-LT-20I	Total/NA	Solid	3540C	
570-110925-4	Unit-2-LT-15F	Total/NA	Solid	3540C	
570-110925-5	Unit-2-LT-15G	Total/NA	Solid	3540C	
570-110925-6	Unit-2-LT-15H	Total/NA	Solid	3540C	
570-110925-7 - DL	Unit-2-LT-15I	Total/NA	Solid	3540C	
570-110925-7	Unit-2-LT-15I	Total/NA	Solid	3540C	
570-110925-8	Unit-2-LT-15J	Total/NA	Solid	3540C	
570-110925-9	Unit-2-LT-15J-DUP	Total/NA	Solid	3540C	
570-110925-10	Unit-2-RT-5A	Total/NA	Solid	3540C	
570-110925-11	Unit-1/2-RT-5B	Total/NA	Solid	3540C	
570-110925-12	Unit-2-SST-SO-W-S-15A	Total/NA	Solid	3540C	
570-110925-13 - DL	Unit-2-SST-SO-W-SW-25A	Total/NA	Solid	3540C	
570-110925-13	Unit-2-SST-SO-W-SW-25A	Total/NA	Solid	3540C	
570-110925-14	Unit-2-SST-SO-W-SW-25B	Total/NA	Solid	3540C	
570-110925-14 - DL	Unit-2-SST-SO-W-SW-25B	Total/NA	Solid	3540C	
570-110925-15 - DL	Unit-2-SST-SO-W-SW-25C	Total/NA	Solid	3540C	
570-110925-16	Unit-2-SST-SO-W-SW-25D	Total/NA	Solid	3540C	
570-110925-16 - DL	Unit-2-SST-SO-W-SW-25D	Total/NA	Solid	3540C	
570-110925-17	Unit-2-SST-SO-W-SW-25E	Total/NA	Solid	3540C	
570-110925-17 - DL	Unit-2-SST-SO-W-SW-25E	Total/NA	Solid	3540C	
570-110925-18	Unit-2-SST-SO-W-SW-25F	Total/NA	Solid	3540C	
570-110925-19	Unit-2-SST-SO-W-SW-25G	Total/NA	Solid	3540C	
570-110925-19 - DL	Unit-2-SST-SO-W-SW-25G	Total/NA	Solid	3540C	
570-110925-20	Unit-2-SST-SO-W-SW-25G-DUP	Total/NA	Solid	3540C	
570-110925-20 - DL	Unit-2-SST-SO-W-SW-25G-DUP	Total/NA	Solid	3540C	
MB 570-266961/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-266961/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-266961/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-110925-7 MS	Unit-2-LT-15I	Total/NA	Solid	3540C	
570-110925-7 MSD	Unit-2-LT-15I	Total/NA	Solid	3540C	

Prep Batch: 266962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110925-21 - DL	Unit-2-SST-SO-W-SW-25H	Total/NA	Solid	3540C	
570-110925-21 - DL2	Unit-2-SST-SO-W-SW-25H	Total/NA	Solid	3540C	
570-110925-22 - DL	Unit-2-SST-SO-W-SW-25I	Total/NA	Solid	3540C	
570-110925-22	Unit-2-SST-SO-W-SW-25I	Total/NA	Solid	3540C	
570-110925-23	Unit-2-SST-SO-W-SW-25J	Total/NA	Solid	3540C	
570-110925-24 - DL	Unit-2-SST-SO-W-SW-25K	Total/NA	Solid	3540C	
570-110925-24	Unit-2-SST-SO-W-SW-25K	Total/NA	Solid	3540C	
570-110925-25	Unit-2-LT-15K	Total/NA	Solid	3540C	
MB 570-266962/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-266962/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-266962/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 267297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110925-21 - DL	Unit-2-SST-SO-W-SW-25H	Total/NA	Solid	8082	266962

GC Semi VOA (Continued)

Analysis Batch: 267297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110925-21 - DL2	Unit-2-SST-SO-W-SW-25H	Total/NA	Solid	8082	266962
570-110925-22	Unit-2-SST-SO-W-SW-25I	Total/NA	Solid	8082	266962
570-110925-22 - DL	Unit-2-SST-SO-W-SW-25I	Total/NA	Solid	8082	266962
570-110925-23	Unit-2-SST-SO-W-SW-25J	Total/NA	Solid	8082	266962
570-110925-24	Unit-2-SST-SO-W-SW-25K	Total/NA	Solid	8082	266962
570-110925-24 - DL	Unit-2-SST-SO-W-SW-25K	Total/NA	Solid	8082	266962
570-110925-25	Unit-2-LT-15K	Total/NA	Solid	8082	266962
MB 570-266962/1-A	Method Blank	Total/NA	Solid	8082	266962
LCS 570-266962/2-A	Lab Control Sample	Total/NA	Solid	8082	266962
LCSD 570-266962/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	266962

Analysis Batch: 267368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110925-1 - DL	Unit-2-LT-25A	Total/NA	Solid	8082	266961
570-110925-2	Unit-2-LT-25B	Total/NA	Solid	8082	266961
570-110925-3	Unit-2-LT-20I	Total/NA	Solid	8082	266961
570-110925-4	Unit-2-LT-15F	Total/NA	Solid	8082	266961
570-110925-5	Unit-2-LT-15G	Total/NA	Solid	8082	266961
570-110925-6	Unit-2-LT-15H	Total/NA	Solid	8082	266961
570-110925-7	Unit-2-LT-15I	Total/NA	Solid	8082	266961
570-110925-7 - DL	Unit-2-LT-15I	Total/NA	Solid	8082	266961
570-110925-8	Unit-2-LT-15J	Total/NA	Solid	8082	266961
570-110925-9	Unit-2-LT-15J-DUP	Total/NA	Solid	8082	266961
570-110925-10	Unit-2-RT-5A	Total/NA	Solid	8082	266961
570-110925-11	Unit-1/2-RT-5B	Total/NA	Solid	8082	266961
570-110925-12	Unit-2-SST-SO-W-S-15A	Total/NA	Solid	8082	266961
570-110925-13	Unit-2-SST-SO-W-SW-25A	Total/NA	Solid	8082	266961
570-110925-14	Unit-2-SST-SO-W-SW-25B	Total/NA	Solid	8082	266961
570-110925-16	Unit-2-SST-SO-W-SW-25D	Total/NA	Solid	8082	266961
570-110925-17	Unit-2-SST-SO-W-SW-25E	Total/NA	Solid	8082	266961
570-110925-18	Unit-2-SST-SO-W-SW-25F	Total/NA	Solid	8082	266961
570-110925-19	Unit-2-SST-SO-W-SW-25G	Total/NA	Solid	8082	266961
570-110925-20	Unit-2-SST-SO-W-SW-25G-DUP	Total/NA	Solid	8082	266961
MB 570-266961/1-A	Method Blank	Total/NA	Solid	8082	266961
LCS 570-266961/2-A	Lab Control Sample	Total/NA	Solid	8082	266961
LCSD 570-266961/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	266961
570-110925-7 MS	Unit-2-LT-15I	Total/NA	Solid	8082	266961
570-110925-7 MSD	Unit-2-LT-15I	Total/NA	Solid	8082	266961

Analysis Batch: 267647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110925-1 - DL	Unit-2-LT-25A	Total/NA	Solid	8082	266961
570-110925-2 - DL	Unit-2-LT-25B	Total/NA	Solid	8082	266961
570-110925-13 - DL	Unit-2-SST-SO-W-SW-25A	Total/NA	Solid	8082	266961
570-110925-14 - DL	Unit-2-SST-SO-W-SW-25B	Total/NA	Solid	8082	266961
570-110925-15 - DL	Unit-2-SST-SO-W-SW-25C	Total/NA	Solid	8082	266961
570-110925-16 - DL	Unit-2-SST-SO-W-SW-25D	Total/NA	Solid	8082	266961
570-110925-17 - DL	Unit-2-SST-SO-W-SW-25E	Total/NA	Solid	8082	266961
570-110925-19 - DL	Unit-2-SST-SO-W-SW-25G	Total/NA	Solid	8082	266961
570-110925-20 - DL	Unit-2-SST-SO-W-SW-25G-DUP	Total/NA	Solid	8082	266961

QC Association Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110925-1

General Chemistry

Analysis Batch: 267139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110925-1	Unit-2-LT-25A	Total/NA	Solid	Moisture	
570-110925-2	Unit-2-LT-25B	Total/NA	Solid	Moisture	
570-110925-3	Unit-2-LT-20I	Total/NA	Solid	Moisture	
570-110925-4	Unit-2-LT-15F	Total/NA	Solid	Moisture	
570-110925-5	Unit-2-LT-15G	Total/NA	Solid	Moisture	
570-110925-6	Unit-2-LT-15H	Total/NA	Solid	Moisture	
570-110925-7	Unit-2-LT-15I	Total/NA	Solid	Moisture	
570-110925-8	Unit-2-LT-15J	Total/NA	Solid	Moisture	
570-110925-9	Unit-2-LT-15J-DUP	Total/NA	Solid	Moisture	
570-110925-10	Unit-2-RT-5A	Total/NA	Solid	Moisture	
570-110925-11	Unit-1/2-RT-5B	Total/NA	Solid	Moisture	
570-110925-12	Unit-2-SST-SO-W-S-15A	Total/NA	Solid	Moisture	
570-110925-13	Unit-2-SST-SO-W-SW-25A	Total/NA	Solid	Moisture	
570-110925-2 DU	Unit-2-LT-25B	Total/NA	Solid	Moisture	
570-110925-11 DU	Unit-1/2-RT-5B	Total/NA	Solid	Moisture	

Analysis Batch: 267140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-110925-14	Unit-2-SST-SO-W-SW-25B	Total/NA	Solid	Moisture	
570-110925-15	Unit-2-SST-SO-W-SW-25C	Total/NA	Solid	Moisture	
570-110925-16	Unit-2-SST-SO-W-SW-25D	Total/NA	Solid	Moisture	
570-110925-17	Unit-2-SST-SO-W-SW-25E	Total/NA	Solid	Moisture	
570-110925-18	Unit-2-SST-SO-W-SW-25F	Total/NA	Solid	Moisture	
570-110925-19	Unit-2-SST-SO-W-SW-25G	Total/NA	Solid	Moisture	
570-110925-20	Unit-2-SST-SO-W-SW-25G-DUP	Total/NA	Solid	Moisture	
570-110925-21	Unit-2-SST-SO-W-SW-25H	Total/NA	Solid	Moisture	
570-110925-22	Unit-2-SST-SO-W-SW-25I	Total/NA	Solid	Moisture	
570-110925-23	Unit-2-SST-SO-W-SW-25J	Total/NA	Solid	Moisture	
570-110925-24	Unit-2-SST-SO-W-SW-25K	Total/NA	Solid	Moisture	
570-110925-25	Unit-2-LT-15K	Total/NA	Solid	Moisture	
570-110925-14 DU	Unit-2-SST-SO-W-SW-25B	Total/NA	Solid	Moisture	
570-110925-24 DU	Unit-2-SST-SO-W-SW-25K	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-110925-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-25A
Lab Sample ID: 570-110925-1
Date Collected: 09/23/22 12:05
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		20.12 g	20 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	100	1 mL	1 mL	267368	09/26/22 21:15	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		20.12 g	20 mL	266961	09/23/22 17:01	USUL	EET CAL
Total/NA	Analysis	8082	DL	200	1 mL	1 mL	267647	09/27/22 09:33	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267139	09/24/22 07:44	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-25B
Lab Sample ID: 570-110925-2
Date Collected: 09/23/22 12:12
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.75 g	20 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 14:31	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		19.75 g	20 mL	266961	09/23/22 17:01	USUL	EET CAL
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	267647	09/27/22 09:54	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267139	09/24/22 07:44	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-20I
Lab Sample ID: 570-110925-3
Date Collected: 09/23/22 12:18
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.44 g	20 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 14:52	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267139	09/24/22 07:44	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-15F
Lab Sample ID: 570-110925-4
Date Collected: 09/23/22 12:25
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.97 g	20 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 15:14	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267139	09/24/22 07:44	B4QL	EET CAL
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-110925-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-15G
Lab Sample ID: 570-110925-5
Date Collected: 09/23/22 12:37
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.18 g	20 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 15:35	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267139	09/24/22 07:44	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-15H
Lab Sample ID: 570-110925-6
Date Collected: 09/23/22 12:36
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.30 g	20 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 15:56	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267139	09/24/22 07:44	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-15I
Lab Sample ID: 570-110925-7
Date Collected: 09/23/22 12:43
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.77 g	20 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 12:42	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		19.77 g	20 mL	266961	09/23/22 17:01	USUL	EET CAL
Total/NA	Analysis	8082	DL	2	1 mL	1 mL	267368	09/26/22 20:54	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267139	09/24/22 07:44	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-15J
Lab Sample ID: 570-110925-8
Date Collected: 09/23/22 12:51
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.98 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 16:17	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267139	09/24/22 07:44	B4QL	EET CAL
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-110925-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-15J-DUP
Lab Sample ID: 570-110925-9
Date Collected: 09/23/22 12:51
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.01 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 16:39	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267139	09/24/22 07:44	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-RT-5A
Lab Sample ID: 570-110925-10
Date Collected: 09/23/22 13:29
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.80 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 17:00	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267139	09/24/22 07:44	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-1/2-RT-5B
Lab Sample ID: 570-110925-11
Date Collected: 09/23/22 13:27
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.59 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 17:21	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267139	09/24/22 07:44	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-S-15A
Lab Sample ID: 570-110925-12
Date Collected: 09/23/22 13:32
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.10 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 17:42	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267139	09/24/22 07:44	B4QL	EET CAL
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110925-1

Client Sample ID: Unit-2-SST-SO-W-SW-25A

Lab Sample ID: 570-110925-13
Date Collected: 09/23/22 13:36
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.48 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 18:04	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		20.48 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	267647	09/27/22 10:16	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267139	09/24/22 07:44	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-25B

Lab Sample ID: 570-110925-14
Date Collected: 09/23/22 13:44
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.95 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 18:25	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		19.95 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	267647	09/27/22 10:37	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267140	09/24/22 07:49	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-25C

Lab Sample ID: 570-110925-15
Date Collected: 09/23/22 13:50
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		20.13 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	200	1 mL	1 mL	267647	09/27/22 10:58	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267140	09/24/22 07:49	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-25D

Lab Sample ID: 570-110925-16
Date Collected: 09/23/22 13:54
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.60 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 19:08	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		19.60 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	267647	09/27/22 11:20	AJ2Q	EET CAL
	Instrument ID: GC66									

Client Sample ID: Unit-2-SST-SO-W-SW-25D — Lab Sample ID: 570-110925-16

Date Collected: 09/23/22 13:54 **Matrix: Solid**
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			267140	09/24/22 07:49	B4QL	EET CAL 4

Client Sample ID: Unit-2-SST-SO-W-SW-25E — Lab Sample ID: 570-110925-17

Date Collected: 09/23/22 14:01 **Matrix: Solid**
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.82 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 19:29	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		19.82 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL
Total/NA	Analysis	8082	DL	2	1 mL	1 mL	267647	09/27/22 13:25	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267140	09/24/22 07:49	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-25F — Lab Sample ID: 570-110925-18

Date Collected: 09/23/22 14:06 **Matrix: Solid**
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.38 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 19:50	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267140	09/24/22 07:49	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-25G — Lab Sample ID: 570-110925-19

Date Collected: 09/23/22 14:10 **Matrix: Solid**
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.00 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 20:12	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		20.00 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL
Total/NA	Analysis	8082	DL	10	1 mL	1 mL	267647	09/27/22 17:03	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267140	09/24/22 07:49	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-25G-DUP — Lab Sample ID: 570-110925-20

Date Collected: 09/23/22 14:10 — **Matrix: Solid**
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.26 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267368	09/26/22 20:33	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		20.26 g	10 mL	266961	09/23/22 17:01	USUL	EET CAL
Total/NA	Analysis	8082	DL	20	1 mL	1 mL	267647	09/27/22 17:24	AJ2Q	EET CAL
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			267140	09/24/22 07:49	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-25H — Lab Sample ID: 570-110925-21

Date Collected: 09/23/22 14:17 — **Matrix: Solid**
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		20.41 g	10 mL	266962	09/23/22 17:02	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	200	1 mL	1 mL	267297	09/26/22 11:55	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL2		20.41 g	10 mL	266962	09/23/22 17:02	USUL	EET CAL
Total/NA	Analysis	8082	DL2	400	1 mL	1 mL	267297	09/26/22 12:49	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			267140	09/24/22 07:49	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-25I — Lab Sample ID: 570-110925-22

Date Collected: 09/23/22 14:23 — **Matrix: Solid**
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.72 g	10 mL	266962	09/23/22 17:02	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267297	09/26/22 10:43	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		19.72 g	10 mL	266962	09/23/22 17:02	USUL	EET CAL
Total/NA	Analysis	8082	DL	20	1 mL	1 mL	267297	09/26/22 12:13	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			267140	09/24/22 07:49	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-25J — Lab Sample ID: 570-110925-23

Date Collected: 09/23/22 14:27 — **Matrix: Solid**
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.00 g	10 mL	266962	09/23/22 17:02	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267297	09/26/22 11:01	AJ2Q	EET CAL
	Instrument ID: GC58									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-110925-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-SO-W-SW-25J
Lab Sample ID: 570-110925-23
Date Collected: 09/23/22 14:27
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			267140	09/24/22 07:49	B4QL	EET CAL 4

Client Sample ID: Unit-2-SST-SO-W-SW-25K
Lab Sample ID: 570-110925-24
Date Collected: 09/23/22 14:30
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.02 g	10 mL	266962	09/23/22 17:02	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267297	09/26/22 11:19	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.02 g	10 mL	266962	09/23/22 17:02	USUL	EET CAL
Total/NA	Analysis	8082	DL	10	1 mL	1 mL	267297	09/26/22 12:31	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			267140	09/24/22 07:49	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-LT-15K
Lab Sample ID: 570-110925-25
Date Collected: 09/23/22 13:00
Matrix: Solid
Date Received: 09/23/22 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.40 g	10 mL	266962	09/23/22 17:02	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	267297	09/26/22 11:37	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			267140	09/24/22 07:49	B4QL	EET CAL
	Instrument ID: MOI4									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-110925-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc. Job ID: 570-110925-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-110925-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-110925-1	Unit-2-LT-25A	Solid	09/23/22 12:05	09/23/22 16:21
570-110925-2	Unit-2-LT-25B	Solid	09/23/22 12:12	09/23/22 16:21
570-110925-3	Unit-2-LT-20I	Solid	09/23/22 12:18	09/23/22 16:21
570-110925-4	Unit-2-LT-15F	Solid	09/23/22 12:25	09/23/22 16:21
570-110925-5	Unit-2-LT-15G	Solid	09/23/22 12:37	09/23/22 16:21
570-110925-6	Unit-2-LT-15H	Solid	09/23/22 12:36	09/23/22 16:21
570-110925-7	Unit-2-LT-15I	Solid	09/23/22 12:43	09/23/22 16:21
570-110925-8	Unit-2-LT-15J	Solid	09/23/22 12:51	09/23/22 16:21
570-110925-9	Unit-2-LT-15J-DUP	Solid	09/23/22 12:51	09/23/22 16:21
570-110925-10	Unit-2-RT-5A	Solid	09/23/22 13:29	09/23/22 16:21
570-110925-11	Unit-1/2-RT-5B	Solid	09/23/22 13:27	09/23/22 16:21
570-110925-12	Unit-2-SST-SO-W-S-15A	Solid	09/23/22 13:32	09/23/22 16:21
570-110925-13	Unit-2-SST-SO-W-SW-25A	Solid	09/23/22 13:36	09/23/22 16:21
570-110925-14	Unit-2-SST-SO-W-SW-25B	Solid	09/23/22 13:44	09/23/22 16:21
570-110925-15	Unit-2-SST-SO-W-SW-25C	Solid	09/23/22 13:50	09/23/22 16:21
570-110925-16	Unit-2-SST-SO-W-SW-25D	Solid	09/23/22 13:54	09/23/22 16:21
570-110925-17	Unit-2-SST-SO-W-SW-25E	Solid	09/23/22 14:01	09/23/22 16:21
570-110925-18	Unit-2-SST-SO-W-SW-25F	Solid	09/23/22 14:06	09/23/22 16:21
570-110925-19	Unit-2-SST-SO-W-SW-25G	Solid	09/23/22 14:10	09/23/22 16:21
570-110925-20	Unit-2-SST-SO-W-SW-25G-DUP	Solid	09/23/22 14:10	09/23/22 16:21
570-110925-21	Unit-2-SST-SO-W-SW-25H	Solid	09/23/22 14:17	09/23/22 16:21
570-110925-22	Unit-2-SST-SO-W-SW-25I	Solid	09/23/22 14:23	09/23/22 16:21
570-110925-23	Unit-2-SST-SO-W-SW-25J	Solid	09/23/22 14:27	09/23/22 16:21
570-110925-24	Unit-2-SST-SO-W-SW-25K	Solid	09/23/22 14:30	09/23/22 16:21
570-110925-25	Unit-2-LT-15K	Solid	09/23/22 13:00	09/23/22 16:21

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570-110925 Chain of Custody

DATE 9-23-22

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LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	PO NO:
CITY: Long Beach STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312	E-MAIL: mnelson@rouxinc com / dzaragoza@rouxinc com / mnishibayashi@rouxinc com
	SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS

- ECI # 57008787
- Report in dry weight

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture			
1	Unit-2-LT-25A	9-23-22	1205	S	1	X													X				X			
2	Unit-2-LT-25B		1212																							
3	Unit-2-LT-20I		1218																							
4	Unit-2-LT-15F		1225																							
5	Unit-2-LT-15G		1237																							
6	Unit-2-LT-15H		1236																							
7	Unit-2-LT-15I		1243																							
8	Unit-2-LT-15J		1251																							
9	Unit-2-LT-15J-DUP		1251																							
10	Unit-2-RT-5A		1324																							

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Sam Courier	Date 9-23-22	Time 3:07 pm
Relinquished by: (Signature) Sam L. (courier)	Received by: (Signature/Affiliation) EC	Date 9/23/22	Time 1621
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

2.1 / 2.1 SC12

06/02/14 Revision

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WO # / LAB USE ONLY

DATE: 9-23-22

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LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	PO NO:
CITY: Long Beach CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL.: (818) 726-4265 / (951) 987-1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc com / mnishibayashi@rouxinc.com	SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS
- ECI # 5700 8787
- Report in dry weight

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) /3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture			
11	Unit-½-RT-5B	9-23-22	~~1327~~ 1327	S	1	X													X				X			
12	Unit-2-SST_SO-W-S15A		1332																							
13	Unit-2-SST_SO-W-SW-25A		1336																							
14	Unit-2-SST_SO-W-SW-25B		1344																							
15	Unit-2-SST_SO-W-SW-25C		1350																							
16	Unit-2-SST_SO-W-SW-25D		1354																							
17	Unit-2-SST_SO-W-SW-25E		1401																							
18	Unit-2-SST_SO-W-SW-25F		1406																							
19	Unit-2-SST_SO-W-SW-25G		1410																							
20	Unit-2-SST_SO-W-SW-25G-DUP		1410																							

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Sam	Date 9-23-22	Time 3:07 pm
Relinquished by (Signature) Sam L. Cormier	Received by: (Signature/Affiliation) FC	Date 9/23/22	Time 1621
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

2.1 / 2.1 JCN

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110925

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DATE. 9-23-22

PAGE. 3 OF 3

LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	PO NO:
CITY: Long Beach CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc com / mnishibayashi@rouxinc.com	SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS
- ECI # 5700787
- Report in dry weight

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) 8540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Moisture			
21	Unit-2-SST_SO-W-SW-25H	9-23-22	1417	S	1	X													X				X			
22	Unit-2-SST_SO-W-SW-25I		1423																							
23	Unit-2-SST_SO-W-SW-25J		1427																							
24	Unit-2-SST_SO-W-SW-25K		1430																							
25	Unit-2-LT-15K		1300																							

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Sam L	Date 9-23-22	Time 3:57 pm
Relinquished by: (Signature) Sam L (Courier)	Received by: (Signature/Affiliation) FE	Date 9/23/22	Time 1621
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

21/21 2012

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9/28/2022

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-110925-1

Login Number: 110925
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-111535-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
10/3/2022 7:00:03 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-111535-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-111535-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-111535-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-111535-1

Comments
No additional comments.

Receipt
The samples were received on 9/29/2022 5:13 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6º C.

GC Semi VOA
Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-268601 and analytical batch 570-268700 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082: The following sample required a dilution due to the nature of the sample matrix: Unit-2-LT-30A (570-111535-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

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

Organic Prep
Method 3540C: Due to the matrix, the following samples could not be concentrated to the final method required volume: Unit-2-LT-25C (570-111535-1), Unit-2-LT-30A (570-111535-2), Unit-2-LT-30B (570-111535-3), Unit-2-LT-25D (570-111535-4), Unit-2-LT-20J (570-111535-5), (570-111535-A-1 MS) and (570-111535-A-1 MSD). The reporting limits (RLs) are elevated proportionately. The final volume was changed from 10ml to 20mL.
8082

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-111535-1

Client Sample ID: Unit-2-LT-25C — Lab Sample ID: 570-111535-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	770		100		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	450		100		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-30A — Lab Sample ID: 570-111535-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254 - DL	750000		100000		ug/Kg	1000	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-30B — Lab Sample ID: 570-111535-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	1100		99		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	910		99		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-25D — Lab Sample ID: 570-111535-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	820		100		ug/Kg	1	☼	8082	Total/NA
Aroclor-1268	250		100		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-20J — Lab Sample ID: 570-111535-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	630		100		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-20K — Lab Sample ID: 570-111535-6

No Detections.

Client Sample ID: Unit-2-LT-20L — Lab Sample ID: 570-111535-7

No Detections.

Client Sample ID: Unit-2-LT-20M — Lab Sample ID: 570-111535-8

No Detections.

Client Sample ID: Unit-2-LT-20M-DUP — Lab Sample ID: 570-111535-9

No Detections.

Client Sample ID: Unit-2-SST-SO-W-SW-30A — Lab Sample ID: 570-111535-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	350		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-30B — Lab Sample ID: 570-111535-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	300		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-30C — Lab Sample ID: 570-111535-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	250		51		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-111535-1

Client Sample ID: Unit-2-SST-SO-W-SW-30D — Lab Sample ID: 570-111535-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	990		100		ug/Kg	2	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-30E — Lab Sample ID: 570-111535-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	610		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-30F — Lab Sample ID: 570-111535-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	960		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-30G — Lab Sample ID: 570-111535-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	800		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-30G-DUP — Lab Sample ID: 570-111535-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	600		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-30H — Lab Sample ID: 570-111535-18

No Detections.

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: Unit-2-LT-25C **Lab Sample ID: 570-111535-1**
Date Collected: 09/29/22 12:22 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	F1	100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:23	1
Aroclor-1221	ND		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:23	1
Aroclor-1232	ND		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:23	1
Aroclor-1242	ND		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:23	1
Aroclor-1248	ND		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:23	1
Aroclor-1254	**770**		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:23	1
Aroclor-1260	**450**		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:23	1
Aroclor-1262	ND		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:23	1
Aroclor-1268	ND		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*74*		*24 - 136*	*09/29/22 18:10*	*09/30/22 18:23*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*37 - 135*	*09/29/22 18:10*	*09/30/22 18:23*	*1*

Client Sample ID: Unit-2-LT-30A **Lab Sample ID: 570-111535-2**
Date Collected: 09/29/22 12:29 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:41	1
Aroclor-1221	ND		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:41	1
Aroclor-1232	ND		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:41	1
Aroclor-1242	ND		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:41	1
Aroclor-1248	ND		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:41	1
Aroclor-1260	ND		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:41	1
Aroclor-1262	ND		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:41	1
Aroclor-1268	ND		100		ug/Kg	☼	09/29/22 18:10	09/30/22 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*24*		*24 - 136*	*09/29/22 18:10*	*09/30/22 18:41*	*1*
DCB Decachlorobiphenyl (Surr)	*46*		*37 - 135*	*09/29/22 18:10*	*09/30/22 18:41*	*1*

Client Sample ID: Unit-2-LT-30B **Lab Sample ID: 570-111535-3**
Date Collected: 09/29/22 12:38 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		99		ug/Kg	☼	09/29/22 18:10	10/03/22 12:24	1
Aroclor-1221	ND		99		ug/Kg	☼	09/29/22 18:10	10/03/22 12:24	1
Aroclor-1232	ND		99		ug/Kg	☼	09/29/22 18:10	10/03/22 12:24	1
Aroclor-1242	ND		99		ug/Kg	☼	09/29/22 18:10	10/03/22 12:24	1
Aroclor-1248	ND		99		ug/Kg	☼	09/29/22 18:10	10/03/22 12:24	1
Aroclor-1254	**1100**		99		ug/Kg	☼	09/29/22 18:10	10/03/22 12:24	1
Aroclor-1260	**910**		99		ug/Kg	☼	09/29/22 18:10	10/03/22 12:24	1
Aroclor-1262	ND		99		ug/Kg	☼	09/29/22 18:10	10/03/22 12:24	1
Aroclor-1268	ND		99		ug/Kg	☼	09/29/22 18:10	10/03/22 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*84*		*24 - 136*	*09/29/22 18:10*	*10/03/22 12:24*	*1*
DCB Decachlorobiphenyl (Surr)	*122*		*37 - 135*	*09/29/22 18:10*	*10/03/22 12:24*	*1*

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

Client Sample ID: Unit-2-LT-25D **Lab Sample ID: 570-111535-4**
Date Collected: 09/29/22 12:44 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 12:42	1
Aroclor-1221	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 12:42	1
Aroclor-1232	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 12:42	1
Aroclor-1242	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 12:42	1
Aroclor-1248	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 12:42	1
Aroclor-1254	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 12:42	1
Aroclor-1260	**820**		100		ug/Kg	☼	09/29/22 18:10	10/03/22 12:42	1
Aroclor-1262	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 12:42	1
Aroclor-1268	**250**		100		ug/Kg	☼	09/29/22 18:10	10/03/22 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*82*		*24 - 136*	*09/29/22 18:10*	*10/03/22 12:42*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*37 - 135*	*09/29/22 18:10*	*10/03/22 12:42*	*1*

Client Sample ID: Unit-2-LT-20J **Lab Sample ID: 570-111535-5**
Date Collected: 09/29/22 12:52 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 13:00	1
Aroclor-1221	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 13:00	1
Aroclor-1232	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 13:00	1
Aroclor-1242	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 13:00	1
Aroclor-1248	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 13:00	1
Aroclor-1254	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 13:00	1
Aroclor-1260	**630**		100		ug/Kg	☼	09/29/22 18:10	10/03/22 13:00	1
Aroclor-1262	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 13:00	1
Aroclor-1268	ND		100		ug/Kg	☼	09/29/22 18:10	10/03/22 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*82*		*24 - 136*	*09/29/22 18:10*	*10/03/22 13:00*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*37 - 135*	*09/29/22 18:10*	*10/03/22 13:00*	*1*

Client Sample ID: Unit-2-LT-20K **Lab Sample ID: 570-111535-6**
Date Collected: 09/29/22 12:58 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 19:54	1
Aroclor-1221	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 19:54	1
Aroclor-1232	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 19:54	1
Aroclor-1242	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 19:54	1
Aroclor-1248	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 19:54	1
Aroclor-1254	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 19:54	1
Aroclor-1260	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 19:54	1
Aroclor-1262	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 19:54	1
Aroclor-1268	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*82*		*24 - 136*	*09/29/22 18:10*	*09/30/22 19:54*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 135*	*09/29/22 18:10*	*09/30/22 19:54*	*1*

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

Client Sample ID: Unit-2-LT-20L **Lab Sample ID: 570-111535-7**
Date Collected: 09/29/22 13:05 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:11	1
Aroclor-1221	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:11	1
Aroclor-1232	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:11	1
Aroclor-1242	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:11	1
Aroclor-1248	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:11	1
Aroclor-1254	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:11	1
Aroclor-1260	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:11	1
Aroclor-1262	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:11	1
Aroclor-1268	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*76*		*24 - 136*	*09/29/22 18:10*	*09/30/22 20:11*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 135*	*09/29/22 18:10*	*09/30/22 20:11*	*1*

Client Sample ID: Unit-2-LT-20M **Lab Sample ID: 570-111535-8**
Date Collected: 09/29/22 13:11 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:30	1
Aroclor-1221	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:30	1
Aroclor-1232	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:30	1
Aroclor-1242	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:30	1
Aroclor-1248	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:30	1
Aroclor-1254	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:30	1
Aroclor-1260	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:30	1
Aroclor-1262	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:30	1
Aroclor-1268	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*88*		*24 - 136*	*09/29/22 18:10*	*09/30/22 20:30*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 135*	*09/29/22 18:10*	*09/30/22 20:30*	*1*

Client Sample ID: Unit-2-LT-20M-DUP **Lab Sample ID: 570-111535-9**
Date Collected: 09/29/22 13:11 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:47	1
Aroclor-1221	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:47	1
Aroclor-1232	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:47	1
Aroclor-1242	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:47	1
Aroclor-1248	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:47	1
Aroclor-1254	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:47	1
Aroclor-1260	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:47	1
Aroclor-1262	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:47	1
Aroclor-1268	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*78*		*24 - 136*	*09/29/22 18:10*	*09/30/22 20:47*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*37 - 135*	*09/29/22 18:10*	*09/30/22 20:47*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-SW-30A **Lab Sample ID: 570-111535-10**
Date Collected: 09/29/22 13:25 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:06	1
Aroclor-1221	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:06	1
Aroclor-1232	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:06	1
Aroclor-1242	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:06	1
Aroclor-1248	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:06	1
Aroclor-1254	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:06	1
Aroclor-1260	**350**		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:06	1
Aroclor-1262	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:06	1
Aroclor-1268	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*75*		*24 - 136*	*09/29/22 18:10*	*09/30/22 21:06*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 135*	*09/29/22 18:10*	*09/30/22 21:06*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-30B **Lab Sample ID: 570-111535-11**
Date Collected: 09/29/22 13:30 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:23	1
Aroclor-1221	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:23	1
Aroclor-1232	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:23	1
Aroclor-1242	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:23	1
Aroclor-1248	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:23	1
Aroclor-1254	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:23	1
Aroclor-1260	**300**		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:23	1
Aroclor-1262	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:23	1
Aroclor-1268	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*83*		*24 - 136*	*09/29/22 18:10*	*09/30/22 21:23*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*37 - 135*	*09/29/22 18:10*	*09/30/22 21:23*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-30C **Lab Sample ID: 570-111535-12**
Date Collected: 09/29/22 13:35 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:41	1
Aroclor-1221	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:41	1
Aroclor-1232	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:41	1
Aroclor-1242	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:41	1
Aroclor-1248	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:41	1
Aroclor-1254	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:41	1
Aroclor-1260	**250**		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:41	1
Aroclor-1262	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:41	1
Aroclor-1268	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*72*		*24 - 136*	*09/29/22 18:10*	*09/30/22 21:41*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*37 - 135*	*09/29/22 18:10*	*09/30/22 21:41*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-SW-30D **Lab Sample ID: 570-111535-13**
Date Collected: 09/29/22 13:46 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:59	1
Aroclor-1221	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:59	1
Aroclor-1232	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:59	1
Aroclor-1242	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:59	1
Aroclor-1248	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:59	1
Aroclor-1254	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:59	1
Aroclor-1262	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:59	1
Aroclor-1268	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*91*		*24 - 136*	*09/29/22 18:10*	*09/30/22 21:59*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*37 - 135*	*09/29/22 18:10*	*09/30/22 21:59*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-30E **Lab Sample ID: 570-111535-14**
Date Collected: 09/29/22 13:51 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:18	1
Aroclor-1221	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:18	1
Aroclor-1232	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:18	1
Aroclor-1242	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:18	1
Aroclor-1248	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:18	1
Aroclor-1254	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:18	1
Aroclor-1260	**610**		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:18	1
Aroclor-1262	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:18	1
Aroclor-1268	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*90*		*24 - 136*	*09/29/22 18:10*	*09/30/22 22:18*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*37 - 135*	*09/29/22 18:10*	*09/30/22 22:18*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-30F **Lab Sample ID: 570-111535-15**
Date Collected: 09/29/22 13:56 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:36	1
Aroclor-1221	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:36	1
Aroclor-1232	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:36	1
Aroclor-1242	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:36	1
Aroclor-1248	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:36	1
Aroclor-1254	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:36	1
Aroclor-1260	**960**		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:36	1
Aroclor-1262	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:36	1
Aroclor-1268	ND		51		ug/Kg	☼	09/29/22 18:10	09/30/22 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*87*		*24 - 136*	*09/29/22 18:10*	*09/30/22 22:36*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*37 - 135*	*09/29/22 18:10*	*09/30/22 22:36*	*1*

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

Client Sample ID: Unit-2-SST-SO-W-SW-30G **Lab Sample ID: 570-111535-16**
Date Collected: 09/29/22 14:04 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 23:48	1
Aroclor-1221	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 23:48	1
Aroclor-1232	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 23:48	1
Aroclor-1242	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 23:48	1
Aroclor-1248	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 23:48	1
Aroclor-1254	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 23:48	1
Aroclor-1260	**800**		50		ug/Kg	☼	09/29/22 18:10	09/30/22 23:48	1
Aroclor-1262	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 23:48	1
Aroclor-1268	ND		50		ug/Kg	☼	09/29/22 18:10	09/30/22 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*82*		*24 - 136*	*09/29/22 18:10*	*09/30/22 23:48*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 135*	*09/29/22 18:10*	*09/30/22 23:48*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-30G-DUP **Lab Sample ID: 570-111535-17**
Date Collected: 09/29/22 14:04 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:06	1
Aroclor-1221	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:06	1
Aroclor-1232	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:06	1
Aroclor-1242	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:06	1
Aroclor-1248	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:06	1
Aroclor-1254	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:06	1
Aroclor-1260	**600**		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:06	1
Aroclor-1262	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:06	1
Aroclor-1268	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*73*		*24 - 136*	*09/29/22 18:10*	*10/01/22 00:06*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*37 - 135*	*09/29/22 18:10*	*10/01/22 00:06*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-30H **Lab Sample ID: 570-111535-18**
Date Collected: 09/29/22 14:18 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:23	1
Aroclor-1221	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:23	1
Aroclor-1232	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:23	1
Aroclor-1242	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:23	1
Aroclor-1248	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:23	1
Aroclor-1254	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:23	1
Aroclor-1260	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:23	1
Aroclor-1262	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:23	1
Aroclor-1268	ND		50		ug/Kg	☼	09/29/22 18:10	10/01/22 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*72*		*24 - 136*	*09/29/22 18:10*	*10/01/22 00:23*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*37 - 135*	*09/29/22 18:10*	*10/01/22 00:23*	*1*

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

Client Sample ID: Unit-2-LT-30A **Lab Sample ID: 570-111535-2**
Date Collected: 09/29/22 12:29 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1254	750000		100000		ug/Kg	☼	09/29/22 18:10	10/03/22 15:56	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*371*	*S1+*	*24 - 136*	*09/29/22 18:10*	*10/03/22 15:56*	*1000*
DCB Decachlorobiphenyl (Surr)	*362*	*S1+*	*37 - 135*	*09/29/22 18:10*	*10/03/22 15:56*	*1000*

Client Sample ID: Unit-2-SST-SO-W-SW-30D **Lab Sample ID: 570-111535-13**
Date Collected: 09/29/22 13:46 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	990		100		ug/Kg	☼	09/29/22 18:10	10/03/22 13:18	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*92*		*24 - 136*	*09/29/22 18:10*	*10/03/22 13:18*	*2*
DCB Decachlorobiphenyl (Surr)	*77*		*37 - 135*	*09/29/22 18:10*	*10/03/22 13:18*	*2*

General Chemistry

Client Sample ID: Unit-2-LT-25C **Lab Sample ID: 570-111535-1**
Date Collected: 09/29/22 12:22 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.4		0.1		%			09/30/22 10:22	1

Client Sample ID: Unit-2-LT-30A **Lab Sample ID: 570-111535-2**
Date Collected: 09/29/22 12:29 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.6		0.1		%			09/30/22 10:22	1

Client Sample ID: Unit-2-LT-30B **Lab Sample ID: 570-111535-3**
Date Collected: 09/29/22 12:38 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.3		0.1		%			09/30/22 10:22	1

Client Sample ID: Unit-2-LT-25D **Lab Sample ID: 570-111535-4**
Date Collected: 09/29/22 12:44 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.3		0.1		%			09/30/22 10:22	1

Client Sample ID: Unit-2-LT-20J **Lab Sample ID: 570-111535-5**
Date Collected: 09/29/22 12:52 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.3		0.1		%			09/30/22 10:22	1

Client Sample ID: Unit-2-LT-20K **Lab Sample ID: 570-111535-6**
Date Collected: 09/29/22 12:58 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.5		0.1		%			09/30/22 10:22	1

Client Sample ID: Unit-2-LT-20L **Lab Sample ID: 570-111535-7**
Date Collected: 09/29/22 13:05 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		0.1		%			09/30/22 10:22	1

Client Sample ID: Unit-2-LT-20M **Lab Sample ID: 570-111535-8**
Date Collected: 09/29/22 13:11 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.4		0.1		%			09/30/22 10:22	1

Client Sample ID: Unit-2-LT-20M-DUP **Lab Sample ID: 570-111535-9**
Date Collected: 09/29/22 13:11 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.3		0.1		%			09/30/22 10:22	1

General Chemistry

Client Sample ID: Unit-2-SST-SO-W-SW-30A **Lab Sample ID: 570-111535-10**
Date Collected: 09/29/22 13:25 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		0.1		%			09/30/22 10:22	1

Client Sample ID: Unit-2-SST-SO-W-SW-30B **Lab Sample ID: 570-111535-11**
Date Collected: 09/29/22 13:30 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.5		0.1		%			09/30/22 10:22	1

Client Sample ID: Unit-2-SST-SO-W-SW-30C **Lab Sample ID: 570-111535-12**
Date Collected: 09/29/22 13:35 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.5		0.1		%			09/30/22 10:22	1

Client Sample ID: Unit-2-SST-SO-W-SW-30D **Lab Sample ID: 570-111535-13**
Date Collected: 09/29/22 13:46 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		0.1		%			09/30/22 10:24	1

Client Sample ID: Unit-2-SST-SO-W-SW-30E **Lab Sample ID: 570-111535-14**
Date Collected: 09/29/22 13:51 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.1		0.1		%			09/30/22 10:24	1

Client Sample ID: Unit-2-SST-SO-W-SW-30F **Lab Sample ID: 570-111535-15**
Date Collected: 09/29/22 13:56 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.4		0.1		%			09/30/22 10:24	1

Client Sample ID: Unit-2-SST-SO-W-SW-30G **Lab Sample ID: 570-111535-16**
Date Collected: 09/29/22 14:04 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.3		0.1		%			09/30/22 10:24	1

Client Sample ID: Unit-2-SST-SO-W-SW-30G-DUP **Lab Sample ID: 570-111535-17**
Date Collected: 09/29/22 14:04 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.2		0.1		%			09/30/22 10:24	1

Client Sample ID: Unit-2-SST-SO-W-SW-30H **Lab Sample ID: 570-111535-18**
Date Collected: 09/29/22 14:18 **Matrix: Solid**
Date Received: 09/29/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.8		0.1		%			09/30/22 10:24	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-111535-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (24-136)	DCB1 (37-135)
570-111535-1	Unit-2-LT-25C	74	78
570-111535-1 MS	Unit-2-LT-25C	57	44
570-111535-1 MSD	Unit-2-LT-25C	69	55
570-111535-2	Unit-2-LT-30A	24	46
570-111535-2 - DL	Unit-2-LT-30A	371 S1+	362 S1+
570-111535-3	Unit-2-LT-30B	84	122
570-111535-4	Unit-2-LT-25D	82	73
570-111535-5	Unit-2-LT-20J	82	72
570-111535-6	Unit-2-LT-20K	82	79
570-111535-7	Unit-2-LT-20L	76	95
570-111535-8	Unit-2-LT-20M	88	92
570-111535-9	Unit-2-LT-20M-DUP	78	88
570-111535-10	Unit-2-SST-SO-W-SW-30A	75	79
570-111535-11	Unit-2-SST-SO-W-SW-30B	83	80
570-111535-12	Unit-2-SST-SO-W-SW-30C	72	84
570-111535-13	Unit-2-SST-SO-W-SW-30D	91	85
570-111535-13 - DL	Unit-2-SST-SO-W-SW-30D	92	77
570-111535-14	Unit-2-SST-SO-W-SW-30E	90	86
570-111535-15	Unit-2-SST-SO-W-SW-30F	87	75
570-111535-16	Unit-2-SST-SO-W-SW-30G	82	79
570-111535-17	Unit-2-SST-SO-W-SW-30G-DUP	73	75
570-111535-18	Unit-2-SST-SO-W-SW-30H	72	82
LCS 570-268601/2-A	Lab Control Sample	77	84
LCSD 570-268601/3-A	Lab Control Sample Dup	74	82
MB 570-268601/1-A	Method Blank	83	89

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-268601/1-A
Matrix: Solid
Analysis Batch: 268700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 268601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		09/29/22 18:10	09/30/22 17:30	1
Aroclor-1221	ND		50		ug/Kg		09/29/22 18:10	09/30/22 17:30	1
Aroclor-1232	ND		50		ug/Kg		09/29/22 18:10	09/30/22 17:30	1
Aroclor-1242	ND		50		ug/Kg		09/29/22 18:10	09/30/22 17:30	1
Aroclor-1248	ND		50		ug/Kg		09/29/22 18:10	09/30/22 17:30	1
Aroclor-1254	ND		50		ug/Kg		09/29/22 18:10	09/30/22 17:30	1
Aroclor-1260	ND		50		ug/Kg		09/29/22 18:10	09/30/22 17:30	1
Aroclor-1262	ND		50		ug/Kg		09/29/22 18:10	09/30/22 17:30	1
Aroclor-1268	ND		50		ug/Kg		09/29/22 18:10	09/30/22 17:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*83*		*24 - 136*	*09/29/22 18:10*	*09/30/22 17:30*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*37 - 135*	*09/29/22 18:10*	*09/30/22 17:30*	*1*

Lab Sample ID: LCS 570-268601/2-A
Matrix: Solid
Analysis Batch: 269217

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 268601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	89.65		ug/Kg		90	46 - 131
Aroclor-1260	100	89.71		ug/Kg		90	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*77*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*84*		*37 - 135*

Lab Sample ID: LCSD 570-268601/3-A
Matrix: Solid
Analysis Batch: 269217

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 268601

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	81.96		ug/Kg		82	46 - 131	9	32
Aroclor-1260	100	86.03		ug/Kg		86	40 - 150	4	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*74*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*82*		*37 - 135*

Lab Sample ID: 570-111535-1 MS
Matrix: Solid
Analysis Batch: 268700

Client Sample ID: Unit-2-LT-25C
Prep Type: Total/NA
Prep Batch: 268601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND	F1	99.6	369.7	F1	ug/Kg	☼	371	29 - 174
Aroclor-1260	450		99.6	321.4	4	ug/Kg	☼	-133	20 - 180

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

Lab Sample ID: 570-111535-1 MS **Client Sample ID: Unit-2-LT-25C**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 268700 **Prep Batch: 268601**

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*57*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*44*		*37 - 135*

Lab Sample ID: 570-111535-1 MSD **Client Sample ID: Unit-2-LT-25C**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 268700 **Prep Batch: 268601**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND	F1	99.8	477.3	F1	ug/Kg	☼	478	29 - 174	25	40
Aroclor-1260	450		99.8	359.7	4	ug/Kg	☼	-94	20 - 180	11	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*69*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*55*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-111535-10 DU **Client Sample ID: Unit-2-SST-SO-W-SW-30A**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 268892

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	1.9		1.9		%		3	10

Lab Sample ID: 570-111535-13 DU **Client Sample ID: Unit-2-SST-SO-W-SW-30D**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 268928

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	1.9		1.9		%		0.5	10

GC Semi VOA

Prep Batch: 268601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111535-1	Unit-2-LT-25C	Total/NA	Solid	3540C	
570-111535-2 - DL	Unit-2-LT-30A	Total/NA	Solid	3540C	
570-111535-2	Unit-2-LT-30A	Total/NA	Solid	3540C	
570-111535-3	Unit-2-LT-30B	Total/NA	Solid	3540C	
570-111535-4	Unit-2-LT-25D	Total/NA	Solid	3540C	
570-111535-5	Unit-2-LT-20J	Total/NA	Solid	3540C	
570-111535-6	Unit-2-LT-20K	Total/NA	Solid	3540C	
570-111535-7	Unit-2-LT-20L	Total/NA	Solid	3540C	
570-111535-8	Unit-2-LT-20M	Total/NA	Solid	3540C	
570-111535-9	Unit-2-LT-20M-DUP	Total/NA	Solid	3540C	
570-111535-10	Unit-2-SST-SO-W-SW-30A	Total/NA	Solid	3540C	
570-111535-11	Unit-2-SST-SO-W-SW-30B	Total/NA	Solid	3540C	
570-111535-12	Unit-2-SST-SO-W-SW-30C	Total/NA	Solid	3540C	
570-111535-13 - DL	Unit-2-SST-SO-W-SW-30D	Total/NA	Solid	3540C	
570-111535-13	Unit-2-SST-SO-W-SW-30D	Total/NA	Solid	3540C	
570-111535-14	Unit-2-SST-SO-W-SW-30E	Total/NA	Solid	3540C	
570-111535-15	Unit-2-SST-SO-W-SW-30F	Total/NA	Solid	3540C	
570-111535-16	Unit-2-SST-SO-W-SW-30G	Total/NA	Solid	3540C	
570-111535-17	Unit-2-SST-SO-W-SW-30G-DUP	Total/NA	Solid	3540C	
570-111535-18	Unit-2-SST-SO-W-SW-30H	Total/NA	Solid	3540C	
MB 570-268601/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-268601/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-268601/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-111535-1 MS	Unit-2-LT-25C	Total/NA	Solid	3540C	
570-111535-1 MSD	Unit-2-LT-25C	Total/NA	Solid	3540C	

Analysis Batch: 268700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111535-1	Unit-2-LT-25C	Total/NA	Solid	8082	268601
570-111535-2	Unit-2-LT-30A	Total/NA	Solid	8082	268601
570-111535-6	Unit-2-LT-20K	Total/NA	Solid	8082	268601
570-111535-7	Unit-2-LT-20L	Total/NA	Solid	8082	268601
570-111535-8	Unit-2-LT-20M	Total/NA	Solid	8082	268601
570-111535-9	Unit-2-LT-20M-DUP	Total/NA	Solid	8082	268601
570-111535-10	Unit-2-SST-SO-W-SW-30A	Total/NA	Solid	8082	268601
570-111535-11	Unit-2-SST-SO-W-SW-30B	Total/NA	Solid	8082	268601
570-111535-12	Unit-2-SST-SO-W-SW-30C	Total/NA	Solid	8082	268601
570-111535-13	Unit-2-SST-SO-W-SW-30D	Total/NA	Solid	8082	268601
570-111535-14	Unit-2-SST-SO-W-SW-30E	Total/NA	Solid	8082	268601
570-111535-15	Unit-2-SST-SO-W-SW-30F	Total/NA	Solid	8082	268601
570-111535-16	Unit-2-SST-SO-W-SW-30G	Total/NA	Solid	8082	268601
570-111535-17	Unit-2-SST-SO-W-SW-30G-DUP	Total/NA	Solid	8082	268601
570-111535-18	Unit-2-SST-SO-W-SW-30H	Total/NA	Solid	8082	268601
MB 570-268601/1-A	Method Blank	Total/NA	Solid	8082	268601
570-111535-1 MS	Unit-2-LT-25C	Total/NA	Solid	8082	268601
570-111535-1 MSD	Unit-2-LT-25C	Total/NA	Solid	8082	268601

Analysis Batch: 269217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111535-2 - DL	Unit-2-LT-30A	Total/NA	Solid	8082	268601
570-111535-3	Unit-2-LT-30B	Total/NA	Solid	8082	268601

GC Semi VOA (Continued)

Analysis Batch: 269217 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111535-4	Unit-2-LT-25D	Total/NA	Solid	8082	268601
570-111535-5	Unit-2-LT-20J	Total/NA	Solid	8082	268601
570-111535-13 - DL	Unit-2-SST-SO-W-SW-30D	Total/NA	Solid	8082	268601
LCS 570-268601/2-A	Lab Control Sample	Total/NA	Solid	8082	268601
LCSD 570-268601/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	268601

General Chemistry

Analysis Batch: 268892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111535-1	Unit-2-LT-25C	Total/NA	Solid	Moisture	
570-111535-2	Unit-2-LT-30A	Total/NA	Solid	Moisture	
570-111535-3	Unit-2-LT-30B	Total/NA	Solid	Moisture	
570-111535-4	Unit-2-LT-25D	Total/NA	Solid	Moisture	
570-111535-5	Unit-2-LT-20J	Total/NA	Solid	Moisture	
570-111535-6	Unit-2-LT-20K	Total/NA	Solid	Moisture	
570-111535-7	Unit-2-LT-20L	Total/NA	Solid	Moisture	
570-111535-8	Unit-2-LT-20M	Total/NA	Solid	Moisture	
570-111535-9	Unit-2-LT-20M-DUP	Total/NA	Solid	Moisture	
570-111535-10	Unit-2-SST-SO-W-SW-30A	Total/NA	Solid	Moisture	
570-111535-11	Unit-2-SST-SO-W-SW-30B	Total/NA	Solid	Moisture	
570-111535-12	Unit-2-SST-SO-W-SW-30C	Total/NA	Solid	Moisture	
570-111535-10 DU	Unit-2-SST-SO-W-SW-30A	Total/NA	Solid	Moisture	

Analysis Batch: 268928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111535-13	Unit-2-SST-SO-W-SW-30D	Total/NA	Solid	Moisture	
570-111535-14	Unit-2-SST-SO-W-SW-30E	Total/NA	Solid	Moisture	
570-111535-15	Unit-2-SST-SO-W-SW-30F	Total/NA	Solid	Moisture	
570-111535-16	Unit-2-SST-SO-W-SW-30G	Total/NA	Solid	Moisture	
570-111535-17	Unit-2-SST-SO-W-SW-30G-DUP	Total/NA	Solid	Moisture	
570-111535-18	Unit-2-SST-SO-W-SW-30H	Total/NA	Solid	Moisture	
570-111535-13 DU	Unit-2-SST-SO-W-SW-30D	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-111535-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-25C
Lab Sample ID: 570-111535-1
Date Collected: 09/29/22 12:22
Matrix: Solid
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.13 g	20 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	09/30/22 18:23	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268892	09/30/22 10:22	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-30A
Lab Sample ID: 570-111535-2
Date Collected: 09/29/22 12:29
Matrix: Solid
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.18 g	20 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	09/30/22 18:41	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.18 g	20 mL	268601	09/29/22 18:10	USUL	EET CAL
Total/NA	Analysis	8082	DL	1000	1 mL	1 mL	269217	10/03/22 15:56	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268892	09/30/22 10:22	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-30B
Lab Sample ID: 570-111535-3
Date Collected: 09/29/22 12:38
Matrix: Solid
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.16 g	20 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269217	10/03/22 12:24	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268892	09/30/22 10:22	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-25D
Lab Sample ID: 570-111535-4
Date Collected: 09/29/22 12:44
Matrix: Solid
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.11 g	20 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269217	10/03/22 12:42	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268892	09/30/22 10:22	B4QL	EET CAL
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-111535-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-20J
Lab Sample ID: 570-111535-5
Date Collected: 09/29/22 12:52
Matrix: Solid
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.08 g	20 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269217	10/03/22 13:00	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268892	09/30/22 10:22	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-20K
Lab Sample ID: 570-111535-6
Date Collected: 09/29/22 12:58
Matrix: Solid
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.14 g	10 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	09/30/22 19:54	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268892	09/30/22 10:22	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-20L
Lab Sample ID: 570-111535-7
Date Collected: 09/29/22 13:05
Matrix: Solid
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.10 g	10 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	09/30/22 20:11	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268892	09/30/22 10:22	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-20M
Lab Sample ID: 570-111535-8
Date Collected: 09/29/22 13:11
Matrix: Solid
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.16 g	10 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	09/30/22 20:30	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268892	09/30/22 10:22	B4QL	EET CAL
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-111535-1

Client Sample ID: Unit-2-LT-20M-DUP

Lab Sample ID: 570-111535-9
Date Collected: 09/29/22 13:11
Matrix: Solid
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.12 g	10 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	09/30/22 20:47	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268892	09/30/22 10:22	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-30A

Lab Sample ID: 570-111535-10
Date Collected: 09/29/22 13:25
Matrix: Solid
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.07 g	10 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	09/30/22 21:06	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268892	09/30/22 10:22	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-30B

Lab Sample ID: 570-111535-11
Date Collected: 09/29/22 13:30
Matrix: Solid
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.15 g	10 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	09/30/22 21:23	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268892	09/30/22 10:22	B4QL	EET CAL
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-30C

Lab Sample ID: 570-111535-12
Date Collected: 09/29/22 13:35
Matrix: Solid
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.11 g	10 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	09/30/22 21:41	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268892	09/30/22 10:22	B4QL	EET CAL
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-111535-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-SO-W-SW-30D — Lab Sample ID: 570-111535-13

Date Collected: 09/29/22 13:46 **Matrix: Solid**
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.17 g	10 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	09/30/22 21:59	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.17 g	10 mL	268601	09/29/22 18:10	USUL	EET CAL
Total/NA	Analysis	8082	DL	2	1 mL	1 mL	269217	10/03/22 13:18	AJ2Q	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268928	09/30/22 10:24	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-30E — Lab Sample ID: 570-111535-14

Date Collected: 09/29/22 13:51 **Matrix: Solid**
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.12 g	10 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	09/30/22 22:18	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268928	09/30/22 10:24	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-30F — Lab Sample ID: 570-111535-15

Date Collected: 09/29/22 13:56 **Matrix: Solid**
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.16 g	10 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	09/30/22 22:36	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268928	09/30/22 10:24	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-30G — Lab Sample ID: 570-111535-16

Date Collected: 09/29/22 14:04 **Matrix: Solid**
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.19 g	10 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	09/30/22 23:48	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268928	09/30/22 10:24	B4QL	EET CAL
	Instrument ID: MOI4									

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-111535-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-SO-W-SW-30G-DUP — Lab Sample ID: 570-111535-17

Date Collected: 09/29/22 14:04 **Matrix: Solid**
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.15 g	10 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	10/01/22 00:06	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268928	09/30/22 10:24	B4QL	EET CAL
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-30H — Lab Sample ID: 570-111535-18

Date Collected: 09/29/22 14:18 **Matrix: Solid**
Date Received: 09/29/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.13 g	10 mL	268601	09/29/22 18:10	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	268700	10/01/22 00:23	UJ3K	EET CAL
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			268928	09/30/22 10:24	B4QL	EET CAL
	Instrument ID: MOI4									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-111535-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc. Job ID: 570-111535-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-111535-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-111535-1	Unit-2-LT-25C	Solid	09/29/22 12:22	09/29/22 18:00
570-111535-2	Unit-2-LT-30A	Solid	09/29/22 12:29	09/29/22 18:00
570-111535-3	Unit-2-LT-30B	Solid	09/29/22 12:38	09/29/22 18:00
570-111535-4	Unit-2-LT-25D	Solid	09/29/22 12:44	09/29/22 18:00
570-111535-5	Unit-2-LT-20J	Solid	09/29/22 12:52	09/29/22 18:00
570-111535-6	Unit-2-LT-20K	Solid	09/29/22 12:58	09/29/22 18:00
570-111535-7	Unit-2-LT-20L	Solid	09/29/22 13:05	09/29/22 18:00
570-111535-8	Unit-2-LT-20M	Solid	09/29/22 13:11	09/29/22 18:00
570-111535-9	Unit-2-LT-20M-DUP	Solid	09/29/22 13:11	09/29/22 18:00
570-111535-10	Unit-2-SST-SO-W-SW-30A	Solid	09/29/22 13:25	09/29/22 18:00
570-111535-11	Unit-2-SST-SO-W-SW-30B	Solid	09/29/22 13:30	09/29/22 18:00
570-111535-12	Unit-2-SST-SO-W-SW-30C	Solid	09/29/22 13:35	09/29/22 18:00
570-111535-13	Unit-2-SST-SO-W-SW-30D	Solid	09/29/22 13:46	09/29/22 18:00
570-111535-14	Unit-2-SST-SO-W-SW-30E	Solid	09/29/22 13:51	09/29/22 18:00
570-111535-15	Unit-2-SST-SO-W-SW-30F	Solid	09/29/22 13:56	09/29/22 18:00
570-111535-16	Unit-2-SST-SO-W-SW-30G	Solid	09/29/22 14:04	09/29/22 18:00
570-111535-17	Unit-2-SST-SO-W-SW-30G-DUP	Solid	09/29/22 14:04	09/29/22 18:00
570-111535-18	Unit-2-SST-SO-W-SW-30H	Solid	09/29/22 14:18	09/29/22 18:00

111535
CHAIN OF CUSTODY RECORD

570-111535 Chain of Custody

DATE: 9-29-22

PAGE: 1 OF 2

7440 Lincoln Way Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	P O NO
CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com	SAMPLER(S). (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
- ECI # 57008787
- Report in dry weight

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Mn-tot				
1	Unit-2-LT-25C	9-29-22	1222	S	1	X													X				X				
2	Unit-2-LT-30A		1229																								
3	Unit-2-LT-30B		1238																								
4	Unit-2-LT-25D		1244																								
5	Unit-2-LT-20J		1252																								
6	Unit-2-LT-20K		1258																								
7	Unit-2-LT-20L		1305																								
8	Unit-2-LT-20M		1311																								
9	Unit-2-LT-20M-DUP		1311																								
10	Unit-2-SST_SO-W_SW-30A	↓	1325	↓	↓	↓													↓				↓				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 9-29-22	Time: 1537
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 9/29/22	Time: 17:13
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

3.6/3.6 SC12

06/02/14 Revision

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10/5/2022

111535

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 9-29-22

PAGE: 2 OF 2

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Roux Associates, Inc

ADDRESS: 5150 Pacific Coast Hwy, Suite 450

CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804

TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

PO NO:

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD').

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

- ECI #57008787
- Report in dry weight

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Moisture				
11	Unit-2-SST_SO-W-SW-30B	9-29-22	1330	S	1	X													X				X				
12	Unit-2-SST_SO-W-SW-30C		1335																								
13	Unit-2-SST_SO-W-SW-30D		1346																								
14	Unit-2-SST_SO-W-SW-30E		1351																								
15	Unit-2-SST_SO-W-SW-30F		1356																								
16	Unit-2-SST_SO-W-SW-30G		1404																								
17	Unit-2-SST_SO-W-SW-30G-DUP		1404																								
18	Unit-2-SST_SO-W-SW-30H		1418																								

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 9-29-22	Time: 1537
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EZ	Date: 9/29/22	Time: 17:13
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-111535-1

Login Number: 111535
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-111681-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L00

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
10/5/2022 9:23:07 AM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-111681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-111681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Job ID: 570-111681-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-111681-1

Comments
No additional comments.

Receipt
The samples were received on 9/30/2022 5:07 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.9º C.

GC Semi VOA
Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-268970 and analytical batch 570-269213 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Job ID: 570-111681-1

Client Sample ID: Unit-2-SST-SO-W-SW-35B — Lab Sample ID: 570-111681-13

No Detections.

Client Sample ID: Unit-2-SST-SO-W-SW-35C — Lab Sample ID: 570-111681-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	7700		1000		ug/Kg	20	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35D — Lab Sample ID: 570-111681-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	320		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35F — Lab Sample ID: 570-111681-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	180		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35G — Lab Sample ID: 570-111681-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	1200		100		ug/Kg	2	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35H — Lab Sample ID: 570-111681-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	800		52		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35H-DUP — Lab Sample ID: 570-111681-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	750		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35I — Lab Sample ID: 570-111681-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	280		51		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-SST-SO-W-SW-35B **Lab Sample ID: 570-111681-13**
Date Collected: 09/30/22 11:37 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49		ug/Kg	☼	09/30/22 17:13	10/03/22 09:07	1
Aroclor-1221	ND		49		ug/Kg	☼	09/30/22 17:13	10/03/22 09:07	1
Aroclor-1232	ND		49		ug/Kg	☼	09/30/22 17:13	10/03/22 09:07	1
Aroclor-1242	ND		49		ug/Kg	☼	09/30/22 17:13	10/03/22 09:07	1
Aroclor-1248	ND		49		ug/Kg	☼	09/30/22 17:13	10/03/22 09:07	1
Aroclor-1254	ND		49		ug/Kg	☼	09/30/22 17:13	10/03/22 09:07	1
Aroclor-1260	ND		49		ug/Kg	☼	09/30/22 17:13	10/03/22 09:07	1
Aroclor-1262	ND		49		ug/Kg	☼	09/30/22 17:13	10/03/22 09:07	1
Aroclor-1268	ND		49		ug/Kg	☼	09/30/22 17:13	10/03/22 09:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*91*		*24 - 136*	*09/30/22 17:13*	*10/03/22 09:07*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*37 - 135*	*09/30/22 17:13*	*10/03/22 09:07*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-35C **Lab Sample ID: 570-111681-14**
Date Collected: 09/30/22 11:42 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 10:11	1
Aroclor-1221	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 10:11	1
Aroclor-1232	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 10:11	1
Aroclor-1242	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 10:11	1
Aroclor-1248	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 10:11	1
Aroclor-1254	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 10:11	1
Aroclor-1262	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 10:11	1
Aroclor-1268	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 10:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*86*		*24 - 136*	*09/30/22 17:13*	*10/03/22 10:11*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*37 - 135*	*09/30/22 17:13*	*10/03/22 10:11*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-35D **Lab Sample ID: 570-111681-15**
Date Collected: 09/30/22 11:48 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	09/30/22 17:13	10/03/22 10:32	1
Aroclor-1221	ND		50		ug/Kg	☼	09/30/22 17:13	10/03/22 10:32	1
Aroclor-1232	ND		50		ug/Kg	☼	09/30/22 17:13	10/03/22 10:32	1
Aroclor-1242	ND		50		ug/Kg	☼	09/30/22 17:13	10/03/22 10:32	1
Aroclor-1248	ND		50		ug/Kg	☼	09/30/22 17:13	10/03/22 10:32	1
Aroclor-1254	ND		50		ug/Kg	☼	09/30/22 17:13	10/03/22 10:32	1
Aroclor-1260	320		50		ug/Kg	☼	09/30/22 17:13	10/03/22 10:32	1
Aroclor-1262	ND		50		ug/Kg	☼	09/30/22 17:13	10/03/22 10:32	1
Aroclor-1268	ND		50		ug/Kg	☼	09/30/22 17:13	10/03/22 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*62*		*24 - 136*	*09/30/22 17:13*	*10/03/22 10:32*	*1*
DCB Decachlorobiphenyl (Surr)	*55*		*37 - 135*	*09/30/22 17:13*	*10/03/22 10:32*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-SST-SO-W-SW-35F **Lab Sample ID: 570-111681-17**
Date Collected: 09/30/22 11:53 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 10:54	1
Aroclor-1221	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 10:54	1
Aroclor-1232	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 10:54	1
Aroclor-1242	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 10:54	1
Aroclor-1248	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 10:54	1
Aroclor-1254	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 10:54	1
Aroclor-1260	180		51		ug/Kg	☼	09/30/22 17:13	10/03/22 10:54	1
Aroclor-1262	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 10:54	1
Aroclor-1268	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*96*		*24 - 136*	*09/30/22 17:13*	*10/03/22 10:54*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*37 - 135*	*09/30/22 17:13*	*10/03/22 10:54*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-35G **Lab Sample ID: 570-111681-18**
Date Collected: 09/30/22 12:12 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:15	1
Aroclor-1221	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:15	1
Aroclor-1232	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:15	1
Aroclor-1242	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:15	1
Aroclor-1248	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:15	1
Aroclor-1254	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:15	1
Aroclor-1260	1200		100		ug/Kg	☼	09/30/22 17:13	10/03/22 12:41	2
Aroclor-1262	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:15	1
Aroclor-1268	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*86*		*24 - 136*	*09/30/22 17:13*	*10/03/22 11:15*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*24 - 136*	*09/30/22 17:13*	*10/03/22 12:41*	*2*
DCB Decachlorobiphenyl (Surr)	*74*		*37 - 135*	*09/30/22 17:13*	*10/03/22 11:15*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*37 - 135*	*09/30/22 17:13*	*10/03/22 12:41*	*2*

Client Sample ID: Unit-2-SST-SO-W-SW-35H **Lab Sample ID: 570-111681-19**
Date Collected: 09/30/22 12:25 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 11:37	1
Aroclor-1221	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 11:37	1
Aroclor-1232	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 11:37	1
Aroclor-1242	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 11:37	1
Aroclor-1248	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 11:37	1
Aroclor-1254	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 11:37	1
Aroclor-1260	800		52		ug/Kg	☼	09/30/22 17:13	10/03/22 11:37	1
Aroclor-1262	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 11:37	1
Aroclor-1268	ND		52		ug/Kg	☼	09/30/22 17:13	10/03/22 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*97*		*24 - 136*	*09/30/22 17:13*	*10/03/22 11:37*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*37 - 135*	*09/30/22 17:13*	*10/03/22 11:37*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-SST-SO-W-SW-35H-DUP **Lab Sample ID: 570-111681-20**
Date Collected: 09/30/22 12:25 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:58	1
Aroclor-1221	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:58	1
Aroclor-1232	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:58	1
Aroclor-1242	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:58	1
Aroclor-1248	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:58	1
Aroclor-1254	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:58	1
Aroclor-1260	750		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:58	1
Aroclor-1262	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:58	1
Aroclor-1268	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*	*09/30/22 17:13*	*10/03/22 11:58*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*37 - 135*	*09/30/22 17:13*	*10/03/22 11:58*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-35I **Lab Sample ID: 570-111681-21**
Date Collected: 09/30/22 12:38 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 12:19	1
Aroclor-1221	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 12:19	1
Aroclor-1232	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 12:19	1
Aroclor-1242	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 12:19	1
Aroclor-1248	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 12:19	1
Aroclor-1254	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 12:19	1
Aroclor-1260	280		51		ug/Kg	☼	09/30/22 17:13	10/03/22 12:19	1
Aroclor-1262	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 12:19	1
Aroclor-1268	ND		51		ug/Kg	☼	09/30/22 17:13	10/03/22 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*91*		*24 - 136*	*09/30/22 17:13*	*10/03/22 12:19*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*37 - 135*	*09/30/22 17:13*	*10/03/22 12:19*	*1*

Client: Roux Associates, Inc.
Job ID: 570-111681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: Unit-2-SST-SO-W-SW-35C
Lab Sample ID: 570-111681-14
Date Collected: 09/30/22 11:42
Matrix: Solid
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	7700		1000		ug/Kg	☼	09/30/22 17:13	10/04/22 10:42	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*92*		*24 - 136*	*09/30/22 17:13*	*10/04/22 10:42*	*20*
DCB Decachlorobiphenyl (Surr)	*75*		*37 - 135*	*09/30/22 17:13*	*10/04/22 10:42*	*20*

General Chemistry

Client Sample ID: Unit-2-SST-SO-W-SW-35B **Lab Sample ID: 570-111681-13**
Date Collected: 09/30/22 11:37 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.9		0.1		%			10/03/22 11:48	1

Client Sample ID: Unit-2-SST-SO-W-SW-35C **Lab Sample ID: 570-111681-14**
Date Collected: 09/30/22 11:42 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.8		0.1		%			10/03/22 11:48	1

Client Sample ID: Unit-2-SST-SO-W-SW-35D **Lab Sample ID: 570-111681-15**
Date Collected: 09/30/22 11:48 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.4		0.1		%			10/03/22 11:48	1

Client Sample ID: Unit-2-SST-SO-W-SW-35F **Lab Sample ID: 570-111681-17**
Date Collected: 09/30/22 11:53 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.4		0.1		%			10/03/22 11:48	1

Client Sample ID: Unit-2-SST-SO-W-SW-35G **Lab Sample ID: 570-111681-18**
Date Collected: 09/30/22 12:12 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.7		0.1		%			10/03/22 11:48	1

Client Sample ID: Unit-2-SST-SO-W-SW-35H **Lab Sample ID: 570-111681-19**
Date Collected: 09/30/22 12:25 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.8		0.1		%			10/03/22 11:48	1

Client Sample ID: Unit-2-SST-SO-W-SW-35H-DUP **Lab Sample ID: 570-111681-20**
Date Collected: 09/30/22 12:25 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.8		0.1		%			10/03/22 11:48	1

Client Sample ID: Unit-2-SST-SO-W-SW-35I **Lab Sample ID: 570-111681-21**
Date Collected: 09/30/22 12:38 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.9		0.1		%			10/03/22 11:48	1

Surrogate Summary

Client: Roux Associates, Inc. Job ID: 570-111681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L00

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (24-136)	DCB1 (37-135)
570-111681-13	Unit-2-SST-SO-W-SW-35B	91	82
570-111681-14	Unit-2-SST-SO-W-SW-35C	86	73
570-111681-14 - DL	Unit-2-SST-SO-W-SW-35C	92	75
570-111681-14 MS	Unit-2-SST-SO-W-SW-35C	64	52
570-111681-14 MSD	Unit-2-SST-SO-W-SW-35C	61	51
570-111681-15	Unit-2-SST-SO-W-SW-35D	62	55
570-111681-17	Unit-2-SST-SO-W-SW-35F	96	89
570-111681-18	Unit-2-SST-SO-W-SW-35G	86	74
570-111681-18	Unit-2-SST-SO-W-SW-35G	84	78
570-111681-19	Unit-2-SST-SO-W-SW-35H	97	72
570-111681-20	Unit-2-SST-SO-W-SW-35H-DUP	95	73
570-111681-21	Unit-2-SST-SO-W-SW-35I	91	70
LCS 570-268970/2-A	Lab Control Sample	95	95
LCSD 570-268970/3-A	Lab Control Sample Dup	92	93
MB 570-268970/1-A	Method Blank	94	97

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-268970/1-A
Matrix: Solid
Analysis Batch: 269213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 268970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		09/30/22 17:13	10/03/22 08:46	1
Aroclor-1221	ND		50		ug/Kg		09/30/22 17:13	10/03/22 08:46	1
Aroclor-1232	ND		50		ug/Kg		09/30/22 17:13	10/03/22 08:46	1
Aroclor-1242	ND		50		ug/Kg		09/30/22 17:13	10/03/22 08:46	1
Aroclor-1248	ND		50		ug/Kg		09/30/22 17:13	10/03/22 08:46	1
Aroclor-1254	ND		50		ug/Kg		09/30/22 17:13	10/03/22 08:46	1
Aroclor-1260	ND		50		ug/Kg		09/30/22 17:13	10/03/22 08:46	1
Aroclor-1262	ND		50		ug/Kg		09/30/22 17:13	10/03/22 08:46	1
Aroclor-1268	ND		50		ug/Kg		09/30/22 17:13	10/03/22 08:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*94*		*24 - 136*	*09/30/22 17:13*	*10/03/22 08:46*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*37 - 135*	*09/30/22 17:13*	*10/03/22 08:46*	*1*

Lab Sample ID: LCS 570-268970/2-A
Matrix: Solid
Analysis Batch: 269213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 268970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	113.8		ug/Kg		114	46 - 131
Aroclor-1260	100	110.6		ug/Kg		111	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 135*

Lab Sample ID: LCSD 570-268970/3-A
Matrix: Solid
Analysis Batch: 269213

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 268970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	107.5		ug/Kg		108	46 - 131	6	32
Aroclor-1260	100	118.2		ug/Kg		118	40 - 150	7	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*92*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 135*

Lab Sample ID: 570-111681-14 MS
Matrix: Solid
Analysis Batch: 269213

Client Sample ID: Unit-2-SST-SO-W-SW-35C
Prep Type: Total/NA
Prep Batch: 268970

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		103	74.66		ug/Kg	☼	72	29 - 174
Aroclor-1260	19000	E F1	103	345.5	F1	ug/Kg	☼	334	20 - 180

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

Lab Sample ID: 570-111681-14 MS **Client Sample ID: Unit-2-SST-SO-W-SW-35C**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 269213 **Prep Batch: 268970**

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*64*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*52*		*37 - 135*

Lab Sample ID: 570-111681-14 MSD **Client Sample ID: Unit-2-SST-SO-W-SW-35C**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 269213 **Prep Batch: 268970**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		103	66.32		ug/Kg	☼	64	29 - 174	15	40
Aroclor-1260	19000	E F1	103	287.6	F1	ug/Kg	☼	279	20 - 180	18	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*61*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*51*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-111681-13 DU **Client Sample ID: Unit-2-SST-SO-W-SW-35B**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 269363

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	0.9		0.9		%		2	10

GC Semi VOA

Prep Batch: 268970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111681-13	Unit-2-SST-SO-W-SW-35B	Total/NA	Solid	3540C	
570-111681-14 - DL	Unit-2-SST-SO-W-SW-35C	Total/NA	Solid	3540C	
570-111681-14	Unit-2-SST-SO-W-SW-35C	Total/NA	Solid	3540C	
570-111681-15	Unit-2-SST-SO-W-SW-35D	Total/NA	Solid	3540C	
570-111681-17	Unit-2-SST-SO-W-SW-35F	Total/NA	Solid	3540C	
570-111681-18	Unit-2-SST-SO-W-SW-35G	Total/NA	Solid	3540C	
570-111681-19	Unit-2-SST-SO-W-SW-35H	Total/NA	Solid	3540C	
570-111681-20	Unit-2-SST-SO-W-SW-35H-DUP	Total/NA	Solid	3540C	
570-111681-21	Unit-2-SST-SO-W-SW-35I	Total/NA	Solid	3540C	
MB 570-268970/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-268970/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-268970/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-111681-14 MS	Unit-2-SST-SO-W-SW-35C	Total/NA	Solid	3540C	
570-111681-14 MSD	Unit-2-SST-SO-W-SW-35C	Total/NA	Solid	3540C	

Analysis Batch: 269213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111681-13	Unit-2-SST-SO-W-SW-35B	Total/NA	Solid	8082	268970
570-111681-14	Unit-2-SST-SO-W-SW-35C	Total/NA	Solid	8082	268970
570-111681-15	Unit-2-SST-SO-W-SW-35D	Total/NA	Solid	8082	268970
570-111681-17	Unit-2-SST-SO-W-SW-35F	Total/NA	Solid	8082	268970
570-111681-18	Unit-2-SST-SO-W-SW-35G	Total/NA	Solid	8082	268970
570-111681-18	Unit-2-SST-SO-W-SW-35G	Total/NA	Solid	8082	268970
570-111681-19	Unit-2-SST-SO-W-SW-35H	Total/NA	Solid	8082	268970
570-111681-20	Unit-2-SST-SO-W-SW-35H-DUP	Total/NA	Solid	8082	268970
570-111681-21	Unit-2-SST-SO-W-SW-35I	Total/NA	Solid	8082	268970
MB 570-268970/1-A	Method Blank	Total/NA	Solid	8082	268970
LCS 570-268970/2-A	Lab Control Sample	Total/NA	Solid	8082	268970
LCSD 570-268970/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	268970
570-111681-14 MS	Unit-2-SST-SO-W-SW-35C	Total/NA	Solid	8082	268970
570-111681-14 MSD	Unit-2-SST-SO-W-SW-35C	Total/NA	Solid	8082	268970

Analysis Batch: 269544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111681-14 - DL	Unit-2-SST-SO-W-SW-35C	Total/NA	Solid	8082	268970

General Chemistry

Analysis Batch: 269363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111681-13	Unit-2-SST-SO-W-SW-35B	Total/NA	Solid	Moisture	
570-111681-14	Unit-2-SST-SO-W-SW-35C	Total/NA	Solid	Moisture	
570-111681-15	Unit-2-SST-SO-W-SW-35D	Total/NA	Solid	Moisture	
570-111681-17	Unit-2-SST-SO-W-SW-35F	Total/NA	Solid	Moisture	
570-111681-18	Unit-2-SST-SO-W-SW-35G	Total/NA	Solid	Moisture	
570-111681-19	Unit-2-SST-SO-W-SW-35H	Total/NA	Solid	Moisture	
570-111681-20	Unit-2-SST-SO-W-SW-35H-DUP	Total/NA	Solid	Moisture	
570-111681-21	Unit-2-SST-SO-W-SW-35I	Total/NA	Solid	Moisture	
570-111681-13 DU	Unit-2-SST-SO-W-SW-35B	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-111681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Client Sample ID: Unit-2-SST-SO-W-SW-35B
Lab Sample ID: 570-111681-13
Date Collected: 09/30/22 11:37
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.52 g	10 mL	268970	09/30/22 17:13	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269213	10/03/22 09:07	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269363	10/03/22 11:48	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35C
Lab Sample ID: 570-111681-14
Date Collected: 09/30/22 11:42
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.67 g	10 mL	268970	09/30/22 17:13	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269213	10/03/22 10:11	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		19.67 g	10 mL	268970	09/30/22 17:13	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	20	1 mL	1 mL	269544	10/04/22 10:42	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269363	10/03/22 11:48	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35D
Lab Sample ID: 570-111681-15
Date Collected: 09/30/22 11:48
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.43 g	10 mL	268970	09/30/22 17:13	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269213	10/03/22 10:32	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269363	10/03/22 11:48	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35F
Lab Sample ID: 570-111681-17
Date Collected: 09/30/22 11:53
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.06 g	10 mL	268970	09/30/22 17:13	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269213	10/03/22 10:54	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269363	10/03/22 11:48	B4QL	EET CAL 4
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-111681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Client Sample ID: Unit-2-SST-SO-W-SW-35G
Lab Sample ID: 570-111681-18
Date Collected: 09/30/22 12:12
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.03 g	10 mL	268970	09/30/22 17:13	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269213	10/03/22 11:15	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3540C			20.03 g	10 mL	268970	09/30/22 17:13	USUL	EET CAL 4
Total/NA	Analysis	8082		2	1 mL	1 mL	269213	10/03/22 12:41	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269363	10/03/22 11:48	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35H
Lab Sample ID: 570-111681-19
Date Collected: 09/30/22 12:25
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.56 g	10 mL	268970	09/30/22 17:13	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269213	10/03/22 11:37	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269363	10/03/22 11:48	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35H-DUP
Lab Sample ID: 570-111681-20
Date Collected: 09/30/22 12:25
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.87 g	10 mL	268970	09/30/22 17:13	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269213	10/03/22 11:58	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269363	10/03/22 11:48	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35I
Lab Sample ID: 570-111681-21
Date Collected: 09/30/22 12:38
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.38 g	10 mL	268970	09/30/22 17:13	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269213	10/03/22 12:19	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269363	10/03/22 11:48	B4QL	EET CAL 4
	Instrument ID: MOI2									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc.
Job ID: 570-111681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Job ID: 570-111681-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Job ID: 570-111681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-111681-13	Unit-2-SST-SO-W-SW-35B	Solid	09/30/22 11:37	09/30/22 17:07
570-111681-14	Unit-2-SST-SO-W-SW-35C	Solid	09/30/22 11:42	09/30/22 17:07
570-111681-15	Unit-2-SST-SO-W-SW-35D	Solid	09/30/22 11:48	09/30/22 17:07
570-111681-17	Unit-2-SST-SO-W-SW-35F	Solid	09/30/22 11:53	09/30/22 17:07
570-111681-18	Unit-2-SST-SO-W-SW-35G	Solid	09/30/22 12:12	09/30/22 17:07
570-111681-19	Unit-2-SST-SO-W-SW-35H	Solid	09/30/22 12:25	09/30/22 17:07
570-111681-20	Unit-2-SST-SO-W-SW-35H-DUP	Solid	09/30/22 12:25	09/30/22 17:07
570-111681-21	Unit-2-SST-SO-W-SW-35I	Solid	09/30/22 12:38	09/30/22 17:07

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CHAIN OF CUSTODY RECORD

570-111681 Chain of Custody

DATE: 9-30-22

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7440 Lincoln Way, Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus com or call us

LABORATORY CLIENT: Roux Associates, Inc

ADDRESS: 5150 Pacific Coast Hwy, Suite 450

CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804

TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

PO NO:

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD').

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

- ECI # 570 08787
- Report in dry weight
- Hold for analysis (A11)

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) /35 4D C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture	Hold for analysis		
1	Unit-2-LT-25E	9-30-22	1005	S	1	X													X				X	X		
2	Unit-2-LT-30C		1015																							
3	Unit-2-LT-35A		1020																							
4	Unit-2-LT-35B		1027																							
5	Unit-2-LT-30D		1032																							
6	Unit-2-LT-30E		1037																							
7	Unit-2-LT-30E-DUP		1037																							
8	Unit-2-LT-25F		1048																							
9	Unit-2-LT-25G		1054																							
10	Unit-2-LT-25H		1059																							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
	Sam DCS	9/30/22	13:25
Sam DCS	EC	9-30-2022	17:07

5.9/5.9 SC12

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CHAIN OF CUSTODY RECORD

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DATE: 9-30-22

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For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Roux Associates, Inc

ADDRESS: 5150 Pacific Coast Hwy, Suite 450

CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804

TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

PO NO:

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
- EC1 #57008787
- Report in dry weight
- Hold for analysis samples specified

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) 1,3,5,Y,O,C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Moisture	Hold for analysis		
11	Unit-2-LT-20N	9-30-22	1120	S	1	X													X				X	X		
12	Unit-2-SST_SO-W-SW-35A		1133																					X		
13	Unit-2-SST_SO-W-SW-35B		1137																							
14	Unit-2-SST_SO-W-SW-35C		1142																							
15	Unit-2-SST_SO-W-SW-35D		1148																							
16	Unit-2-SST_SO-W-SW-35E		1206																					X		
17	Unit-2-SST_SO-W-SW-35F		1153																						,	
18	Unit-2-SST_SO-W-SW-35G		1212																							
19	Unit-2-SST_SO-W-SW-35H		1225																							
20	Unit-2-SST_SO-W-SW-35H-DUP		1225																							

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Sam DCS	Date: 9/30/22	Time: 3:25p
Relinquished by: (Signature) Sam DCS	Received by: (Signature/Affiliation) EC	Date 9-30-2022	Time 17:07
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

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DATE: 9-30-22

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus com or call us.

LABORATORY CLIENT: Roux Associates, Inc

ADDRESS: 5150 Pacific Coast Hwy, Suite 450

CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804

TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

P O NO:

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

- ECI # 570087 87
- Report in dry weight
- Hold for analysis the samples specified

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 35W C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture	Hold for analysis		
21	Unit-2-SST_SO-W-SW-35I	9-30-22	1239	S	1	X													X				X			
22	Unit-2-SST_SO-W-SW-35J		1242																					X		
23	Unit-2-SST_SO-W-SW-35K		1248																							
24	Unit-2-SST_SO-W-SW-35L		1253																							
25	Unit-2-SST_SO-W-SW-35M		1301																							
26	Unit 2-SST_SO-W-SW-35N		1307																							
27	Unit-2-SST_SO-W-SW-35O		1314																							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
	Sam DCS	9/30/22	3:25 pm
Sam DCS	EC	9-30-2022	17:07

06/02/14 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-111681-1

Login Number: 111681
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-111681-2
Client Project/Site: Etiwanda Commerce Center / 3653.0001L00

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
10/6/2022 3:51:32 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

Review your project results through my EOL

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-111681-2
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-111681-2
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Job ID: 570-111681-2

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-111681-2

Comments
No additional comments.

Receipt
The samples were received on 9/30/2022 5:07 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.9º C.

GC Semi VOA
Method 8082: The following sample required a dilution due to the nature of the sample matrix: Unit-2-SST-SO-W-SW-35E (570-111681-16). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

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

Organic Prep
Method 3540C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-269579, 570-269579 and 570-269579. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.
8082

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Job ID: 570-111681-2

Client Sample ID: Unit-2-LT-25E — Lab Sample ID: 570-111681-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	64		52		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-30C — Lab Sample ID: 570-111681-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	82		52		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	930		52		ug/Kg	1	☼	8082	Total/NA
Aroclor-1254 - DL	1400		260		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-35A — Lab Sample ID: 570-111681-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	770		53		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	380		53		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-35B — Lab Sample ID: 570-111681-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	350		50		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	340		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-30D — Lab Sample ID: 570-111681-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	500		50		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	240		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-30E — Lab Sample ID: 570-111681-6

No Detections.

Client Sample ID: Unit-2-LT-30E-DUP — Lab Sample ID: 570-111681-7

No Detections.

Client Sample ID: Unit-2-SST-SO-W-SW-35E — Lab Sample ID: 570-111681-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL2	670000		510000		ug/Kg	10000	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35J — Lab Sample ID: 570-111681-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	190		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35K — Lab Sample ID: 570-111681-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	480		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35L — Lab Sample ID: 570-111681-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	490		51		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-25E **Lab Sample ID: 570-111681-1**
Date Collected: 09/30/22 10:05 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	10/04/22 10:04	10/05/22 18:54	1
Aroclor-1221	ND		52		ug/Kg	☼	10/04/22 10:04	10/05/22 18:54	1
Aroclor-1232	ND		52		ug/Kg	☼	10/04/22 10:04	10/05/22 18:54	1
Aroclor-1242	ND		52		ug/Kg	☼	10/04/22 10:04	10/05/22 18:54	1
Aroclor-1248	ND		52		ug/Kg	☼	10/04/22 10:04	10/05/22 18:54	1
Aroclor-1254	64		52		ug/Kg	☼	10/04/22 10:04	10/05/22 18:54	1
Aroclor-1260	ND		52		ug/Kg	☼	10/04/22 10:04	10/05/22 18:54	1
Aroclor-1262	ND		52		ug/Kg	☼	10/04/22 10:04	10/05/22 18:54	1
Aroclor-1268	ND		52		ug/Kg	☼	10/04/22 10:04	10/05/22 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*100*		*24 - 136*	*10/04/22 10:04*	*10/05/22 18:54*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*37 - 135*	*10/04/22 10:04*	*10/05/22 18:54*	*1*

Client Sample ID: Unit-2-LT-30C **Lab Sample ID: 570-111681-2**
Date Collected: 09/30/22 10:15 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	10/04/22 10:04	10/06/22 11:58	1
Aroclor-1221	ND		52		ug/Kg	☼	10/04/22 10:04	10/06/22 11:58	1
Aroclor-1232	ND		52		ug/Kg	☼	10/04/22 10:04	10/06/22 11:58	1
Aroclor-1242	ND		52		ug/Kg	☼	10/04/22 10:04	10/06/22 11:58	1
Aroclor-1248	82		52		ug/Kg	☼	10/04/22 10:04	10/06/22 11:58	1
Aroclor-1260	930		52		ug/Kg	☼	10/04/22 10:04	10/06/22 11:58	1
Aroclor-1262	ND		52		ug/Kg	☼	10/04/22 10:04	10/06/22 11:58	1
Aroclor-1268	ND		52		ug/Kg	☼	10/04/22 10:04	10/06/22 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*99*		*24 - 136*	*10/04/22 10:04*	*10/06/22 11:58*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 135*	*10/04/22 10:04*	*10/06/22 11:58*	*1*

Client Sample ID: Unit-2-LT-35A **Lab Sample ID: 570-111681-3**
Date Collected: 09/30/22 10:20 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		53		ug/Kg	☼	10/04/22 10:04	10/05/22 19:37	1
Aroclor-1221	ND		53		ug/Kg	☼	10/04/22 10:04	10/05/22 19:37	1
Aroclor-1232	ND		53		ug/Kg	☼	10/04/22 10:04	10/05/22 19:37	1
Aroclor-1242	ND		53		ug/Kg	☼	10/04/22 10:04	10/05/22 19:37	1
Aroclor-1248	ND		53		ug/Kg	☼	10/04/22 10:04	10/05/22 19:37	1
Aroclor-1254	770		53		ug/Kg	☼	10/04/22 10:04	10/05/22 19:37	1
Aroclor-1260	380		53		ug/Kg	☼	10/04/22 10:04	10/05/22 19:37	1
Aroclor-1262	ND		53		ug/Kg	☼	10/04/22 10:04	10/05/22 19:37	1
Aroclor-1268	ND		53		ug/Kg	☼	10/04/22 10:04	10/05/22 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*79*		*24 - 136*	*10/04/22 10:04*	*10/05/22 19:37*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*37 - 135*	*10/04/22 10:04*	*10/05/22 19:37*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-35B **Lab Sample ID: 570-111681-4**
Date Collected: 09/30/22 10:27 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 19:59	1
Aroclor-1221	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 19:59	1
Aroclor-1232	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 19:59	1
Aroclor-1242	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 19:59	1
Aroclor-1248	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 19:59	1
Aroclor-1254	**350**		50		ug/Kg	☼	10/04/22 10:04	10/05/22 19:59	1
Aroclor-1260	**340**		50		ug/Kg	☼	10/04/22 10:04	10/05/22 19:59	1
Aroclor-1262	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 19:59	1
Aroclor-1268	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*58*		*24 - 136*	*10/04/22 10:04*	*10/05/22 19:59*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*37 - 135*	*10/04/22 10:04*	*10/05/22 19:59*	*1*

Client Sample ID: Unit-2-LT-30D **Lab Sample ID: 570-111681-5**
Date Collected: 09/30/22 10:32 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 21:46	1
Aroclor-1221	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 21:46	1
Aroclor-1232	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 21:46	1
Aroclor-1242	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 21:46	1
Aroclor-1248	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 21:46	1
Aroclor-1254	**500**		50		ug/Kg	☼	10/04/22 10:04	10/05/22 21:46	1
Aroclor-1260	**240**		50		ug/Kg	☼	10/04/22 10:04	10/05/22 21:46	1
Aroclor-1262	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 21:46	1
Aroclor-1268	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*65*		*24 - 136*	*10/04/22 10:04*	*10/05/22 21:46*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*37 - 135*	*10/04/22 10:04*	*10/05/22 21:46*	*1*

Client Sample ID: Unit-2-LT-30E **Lab Sample ID: 570-111681-6**
Date Collected: 09/30/22 10:37 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:07	1
Aroclor-1221	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:07	1
Aroclor-1232	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:07	1
Aroclor-1242	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:07	1
Aroclor-1248	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:07	1
Aroclor-1254	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:07	1
Aroclor-1260	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:07	1
Aroclor-1262	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:07	1
Aroclor-1268	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*100*		*24 - 136*	*10/04/22 10:04*	*10/05/22 22:07*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*37 - 135*	*10/04/22 10:04*	*10/05/22 22:07*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-30E-DUP **Lab Sample ID: 570-111681-7**
Date Collected: 09/30/22 10:37 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:28	1
Aroclor-1221	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:28	1
Aroclor-1232	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:28	1
Aroclor-1242	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:28	1
Aroclor-1248	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:28	1
Aroclor-1254	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:28	1
Aroclor-1260	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:28	1
Aroclor-1262	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:28	1
Aroclor-1268	ND		50		ug/Kg	☼	10/04/22 10:04	10/05/22 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*102*		*24 - 136*	*10/04/22 10:04*	*10/05/22 22:28*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 135*	*10/04/22 10:04*	*10/05/22 22:28*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-35J **Lab Sample ID: 570-111681-22**
Date Collected: 09/30/22 12:42 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 22:50	1
Aroclor-1221	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 22:50	1
Aroclor-1232	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 22:50	1
Aroclor-1242	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 22:50	1
Aroclor-1248	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 22:50	1
Aroclor-1254	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 22:50	1
Aroclor-1260	**190**		51		ug/Kg	☼	10/04/22 10:06	10/05/22 22:50	1
Aroclor-1262	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 22:50	1
Aroclor-1268	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*99*		*24 - 136*	*10/04/22 10:06*	*10/05/22 22:50*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 135*	*10/04/22 10:06*	*10/05/22 22:50*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-35K **Lab Sample ID: 570-111681-23**
Date Collected: 09/30/22 12:48 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:11	1
Aroclor-1221	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:11	1
Aroclor-1232	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:11	1
Aroclor-1242	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:11	1
Aroclor-1248	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:11	1
Aroclor-1254	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:11	1
Aroclor-1260	**480**		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:11	1
Aroclor-1262	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:11	1
Aroclor-1268	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*	*10/04/22 10:06*	*10/05/22 23:11*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*37 - 135*	*10/04/22 10:06*	*10/05/22 23:11*	*1*

Client: Roux Associates, Inc.
Job ID: 570-111681-2
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-SST-SO-W-SW-35L
Lab Sample ID: 570-111681-24
Date Collected: 09/30/22 12:53
Matrix: Solid
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:32	1
Aroclor-1221	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:32	1
Aroclor-1232	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:32	1
Aroclor-1242	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:32	1
Aroclor-1248	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:32	1
Aroclor-1254	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:32	1
Aroclor-1260	**490**		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:32	1
Aroclor-1262	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:32	1
Aroclor-1268	ND		51		ug/Kg	☼	10/04/22 10:06	10/05/22 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*100*		*24 - 136*	*10/04/22 10:06*	*10/05/22 23:32*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 135*	*10/04/22 10:06*	*10/05/22 23:32*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: Unit-2-LT-30C **Lab Sample ID: 570-111681-2**
Date Collected: 09/30/22 10:15 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1254	1400		260		ug/Kg	☼	10/04/22 10:04	10/06/22 13:01	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*103*		*24 - 136*	*10/04/22 10:04*	*10/06/22 13:01*	*5*
DCB Decachlorobiphenyl (Surr)	*76*		*37 - 135*	*10/04/22 10:04*	*10/06/22 13:01*	*5*

Client Sample ID: Unit-2-SST-SO-W-SW-35E **Lab Sample ID: 570-111681-16**
Date Collected: 09/30/22 12:06 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		5100		ug/Kg	☼	10/04/22 11:06	10/06/22 09:56	100
Aroclor-1221	ND		5100		ug/Kg	☼	10/04/22 11:06	10/06/22 09:56	100
Aroclor-1232	ND		5100		ug/Kg	☼	10/04/22 11:06	10/06/22 09:56	100
Aroclor-1242	ND		5100		ug/Kg	☼	10/04/22 11:06	10/06/22 09:56	100
Aroclor-1248	ND		5100		ug/Kg	☼	10/04/22 11:06	10/06/22 09:56	100
Aroclor-1254	ND		5100		ug/Kg	☼	10/04/22 11:06	10/06/22 09:56	100
Aroclor-1262	ND		5100		ug/Kg	☼	10/04/22 11:06	10/06/22 09:56	100
Aroclor-1268	ND		5100		ug/Kg	☼	10/04/22 11:06	10/06/22 09:56	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*120*		*24 - 136*	*10/04/22 11:06*	*10/06/22 09:56*	*100*
DCB Decachlorobiphenyl (Surr)	*96*		*37 - 135*	*10/04/22 11:06*	*10/06/22 09:56*	*100*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL2

Client Sample ID: Unit-2-SST-SO-W-SW-35E **Lab Sample ID: 570-111681-16**
Date Collected: 09/30/22 12:06 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	**670000**		510000		ug/Kg	☼	10/04/22 11:06	10/06/22 12:20	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*369*	*S1+*	*24 - 136*	*10/04/22 11:06*	*10/06/22 12:20*	*10000*
DCB Decachlorobiphenyl (Surr)	*36791*	*S1+*	*37 - 135*	*10/04/22 11:06*	*10/06/22 12:20*	*10000*

General Chemistry

Client Sample ID: Unit-2-LT-25E **Lab Sample ID: 570-111681-1**
Date Collected: 09/30/22 10:05 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.9		0.1		%			10/04/22 11:44	1

Client Sample ID: Unit-2-LT-30C **Lab Sample ID: 570-111681-2**
Date Collected: 09/30/22 10:15 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.6		0.1		%			10/04/22 11:44	1

Client Sample ID: Unit-2-LT-35A **Lab Sample ID: 570-111681-3**
Date Collected: 09/30/22 10:20 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.4		0.1		%			10/04/22 11:44	1

Client Sample ID: Unit-2-LT-35B **Lab Sample ID: 570-111681-4**
Date Collected: 09/30/22 10:27 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.6		0.1		%			10/04/22 11:44	1

Client Sample ID: Unit-2-LT-30D **Lab Sample ID: 570-111681-5**
Date Collected: 09/30/22 10:32 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.4		0.1		%			10/04/22 11:44	1

Client Sample ID: Unit-2-LT-30E **Lab Sample ID: 570-111681-6**
Date Collected: 09/30/22 10:37 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.5		0.1		%			10/04/22 11:44	1

Client Sample ID: Unit-2-LT-30E-DUP **Lab Sample ID: 570-111681-7**
Date Collected: 09/30/22 10:37 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.5		0.1		%			10/04/22 11:44	1

Client Sample ID: Unit-2-SST-SO-W-SW-35E **Lab Sample ID: 570-111681-16**
Date Collected: 09/30/22 12:06 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.0		0.1		%			10/04/22 11:44	1

Client Sample ID: Unit-2-SST-SO-W-SW-35J **Lab Sample ID: 570-111681-22**
Date Collected: 09/30/22 12:42 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.8		0.1		%			10/04/22 11:44	1

Client: Roux Associates, Inc. Job ID: 570-111681-2
Project/Site: Etiwanda Commerce Center / 3653.0001L00

General Chemistry

Client Sample ID: Unit-2-SST-SO-W-SW-35K **Lab Sample ID: 570-111681-23**
Date Collected: 09/30/22 12:48 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.4		0.1		%			10/04/22 11:44	1

Client Sample ID: Unit-2-SST-SO-W-SW-35L **Lab Sample ID: 570-111681-24**
Date Collected: 09/30/22 12:53 **Matrix: Solid**
Date Received: 09/30/22 17:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.9		0.1		%			10/04/22 11:44	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Job ID: 570-111681-2

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (24-136)	DCB1 (37-135)
570-111681-1	Unit-2-LT-25E	100	85
570-111681-2	Unit-2-LT-30C	99	81
570-111681-2 - DL	Unit-2-LT-30C	103	76
570-111681-3	Unit-2-LT-35A	79	62
570-111681-4	Unit-2-LT-35B	58	60
570-111681-5	Unit-2-LT-30D	65	63
570-111681-6	Unit-2-LT-30E	100	73
570-111681-7	Unit-2-LT-30E-DUP	102	91
570-111681-16 - DL2	Unit-2-SST-SO-W-SW-35E	369 S1+	36791 S1+
570-111681-16 - DL	Unit-2-SST-SO-W-SW-35E	120	96
570-111681-22	Unit-2-SST-SO-W-SW-35J	99	81
570-111681-23	Unit-2-SST-SO-W-SW-35K	95	71
570-111681-24	Unit-2-SST-SO-W-SW-35L	100	79
LCS 570-269579/2-A	Lab Control Sample	92	71
LCSD 570-269579/3-A	Lab Control Sample Dup	87	84
MB 570-269579/1-A	Method Blank	91	93

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-269579/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 269889 **Prep Batch: 269579**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		10/04/22 10:04	10/05/22 18:33	1
Aroclor-1221	ND		50		ug/Kg		10/04/22 10:04	10/05/22 18:33	1
Aroclor-1232	ND		50		ug/Kg		10/04/22 10:04	10/05/22 18:33	1
Aroclor-1242	ND		50		ug/Kg		10/04/22 10:04	10/05/22 18:33	1
Aroclor-1248	ND		50		ug/Kg		10/04/22 10:04	10/05/22 18:33	1
Aroclor-1254	ND		50		ug/Kg		10/04/22 10:04	10/05/22 18:33	1
Aroclor-1260	ND		50		ug/Kg		10/04/22 10:04	10/05/22 18:33	1
Aroclor-1262	ND		50		ug/Kg		10/04/22 10:04	10/05/22 18:33	1
Aroclor-1268	ND		50		ug/Kg		10/04/22 10:04	10/05/22 18:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*91*		*24 - 136*	*10/04/22 10:04*	*10/05/22 18:33*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 135*	*10/04/22 10:04*	*10/05/22 18:33*	*1*

Lab Sample ID: LCS 570-269579/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 269889 **Prep Batch: 269579**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016			100	88.43		ug/Kg		88	46 - 131		
Aroclor-1260			100	83.71		ug/Kg		84	40 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*92*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*71*		*37 - 135*

Lab Sample ID: LCSD 570-269579/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 269889 **Prep Batch: 269579**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			100	94.16		ug/Kg		94	46 - 131	6	32
Aroclor-1260			100	103.4		ug/Kg		103	40 - 150	21	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*87*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*84*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-111681-1 DU **Client Sample ID: Unit-2-LT-25E**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 269700

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	3.9			4.0		%				3	10

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 570-111681-24 DU
Client Sample ID: Unit-2-SST-SO-W-SW-35L
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 269700

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	1.9			1.9		%				0	10

QC Association Summary

Client: Roux Associates, Inc.
Job ID: 570-111681-2
Project/Site: Etiwanda Commerce Center / 3653.0001L00

GC Semi VOA

Prep Batch: 269579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111681-1	Unit-2-LT-25E	Total/NA	Solid	3540C	
570-111681-2	Unit-2-LT-30C	Total/NA	Solid	3540C	
570-111681-2 - DL	Unit-2-LT-30C	Total/NA	Solid	3540C	
570-111681-3	Unit-2-LT-35A	Total/NA	Solid	3540C	
570-111681-4	Unit-2-LT-35B	Total/NA	Solid	3540C	
570-111681-5	Unit-2-LT-30D	Total/NA	Solid	3540C	
570-111681-6	Unit-2-LT-30E	Total/NA	Solid	3540C	
570-111681-7	Unit-2-LT-30E-DUP	Total/NA	Solid	3540C	
570-111681-16 - DL	Unit-2-SST-SO-W-SW-35E	Total/NA	Solid	3540C	
570-111681-16 - DL2	Unit-2-SST-SO-W-SW-35E	Total/NA	Solid	3540C	
570-111681-22	Unit-2-SST-SO-W-SW-35J	Total/NA	Solid	3540C	
570-111681-23	Unit-2-SST-SO-W-SW-35K	Total/NA	Solid	3540C	
570-111681-24	Unit-2-SST-SO-W-SW-35L	Total/NA	Solid	3540C	
MB 570-269579/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-269579/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-269579/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 269889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111681-1	Unit-2-LT-25E	Total/NA	Solid	8082	269579
570-111681-3	Unit-2-LT-35A	Total/NA	Solid	8082	269579
570-111681-4	Unit-2-LT-35B	Total/NA	Solid	8082	269579
570-111681-5	Unit-2-LT-30D	Total/NA	Solid	8082	269579
570-111681-6	Unit-2-LT-30E	Total/NA	Solid	8082	269579
570-111681-7	Unit-2-LT-30E-DUP	Total/NA	Solid	8082	269579
570-111681-22	Unit-2-SST-SO-W-SW-35J	Total/NA	Solid	8082	269579
570-111681-23	Unit-2-SST-SO-W-SW-35K	Total/NA	Solid	8082	269579
570-111681-24	Unit-2-SST-SO-W-SW-35L	Total/NA	Solid	8082	269579
MB 570-269579/1-A	Method Blank	Total/NA	Solid	8082	269579
LCS 570-269579/2-A	Lab Control Sample	Total/NA	Solid	8082	269579
LCSD 570-269579/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	269579

Analysis Batch: 270269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111681-2	Unit-2-LT-30C	Total/NA	Solid	8082	269579
570-111681-2 - DL	Unit-2-LT-30C	Total/NA	Solid	8082	269579
570-111681-16 - DL	Unit-2-SST-SO-W-SW-35E	Total/NA	Solid	8082	269579
570-111681-16 - DL2	Unit-2-SST-SO-W-SW-35E	Total/NA	Solid	8082	269579

General Chemistry

Analysis Batch: 269700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111681-1	Unit-2-LT-25E	Total/NA	Solid	Moisture	
570-111681-2	Unit-2-LT-30C	Total/NA	Solid	Moisture	
570-111681-3	Unit-2-LT-35A	Total/NA	Solid	Moisture	
570-111681-4	Unit-2-LT-35B	Total/NA	Solid	Moisture	
570-111681-5	Unit-2-LT-30D	Total/NA	Solid	Moisture	
570-111681-6	Unit-2-LT-30E	Total/NA	Solid	Moisture	
570-111681-7	Unit-2-LT-30E-DUP	Total/NA	Solid	Moisture	
570-111681-16	Unit-2-SST-SO-W-SW-35E	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 269700 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111681-22	Unit-2-SST-SO-W-SW-35J	Total/NA	Solid	Moisture	
570-111681-23	Unit-2-SST-SO-W-SW-35K	Total/NA	Solid	Moisture	
570-111681-24	Unit-2-SST-SO-W-SW-35L	Total/NA	Solid	Moisture	
570-111681-1 DU	Unit-2-LT-25E	Total/NA	Solid	Moisture	
570-111681-24 DU	Unit-2-SST-SO-W-SW-35L	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-111681-2
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Client Sample ID: Unit-2-LT-25E — Lab Sample ID: 570-111681-1

Date Collected: 09/30/22 10:05 **Matrix: Solid**
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.15 g	10 mL	269579	10/04/22 10:04	OM8W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269889	10/05/22 18:54	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269700	10/04/22 11:44	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-30C — Lab Sample ID: 570-111681-2

Date Collected: 09/30/22 10:15 **Matrix: Solid**
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.13 g	10 mL	269579	10/04/22 10:04	OM8W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	270269	10/06/22 11:58	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		20.13 g	10 mL	269579	10/04/22 10:04	OM8W	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	270269	10/06/22 13:01	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269700	10/04/22 11:44	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-35A — Lab Sample ID: 570-111681-3

Date Collected: 09/30/22 10:20 **Matrix: Solid**
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.19 g	10 mL	269579	10/04/22 10:04	OM8W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269889	10/05/22 19:37	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269700	10/04/22 11:44	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-35B — Lab Sample ID: 570-111681-4

Date Collected: 09/30/22 10:27 **Matrix: Solid**
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.16 g	10 mL	269579	10/04/22 10:04	OM8W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269889	10/05/22 19:59	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269700	10/04/22 11:44	B4QL	EET CAL 4
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-111681-2
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Client Sample ID: Unit-2-LT-30D
Lab Sample ID: 570-111681-5
Date Collected: 09/30/22 10:32
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.18 g	10 mL	269579	10/04/22 10:04	OM8W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269889	10/05/22 21:46	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269700	10/04/22 11:44	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-30E
Lab Sample ID: 570-111681-6
Date Collected: 09/30/22 10:37
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.12 g	10 mL	269579	10/04/22 10:04	OM8W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269889	10/05/22 22:07	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269700	10/04/22 11:44	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-30E-DUP
Lab Sample ID: 570-111681-7
Date Collected: 09/30/22 10:37
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.19 g	10 mL	269579	10/04/22 10:04	OM8W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269889	10/05/22 22:28	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269700	10/04/22 11:44	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35E
Lab Sample ID: 570-111681-16
Date Collected: 09/30/22 12:06
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		20.14 g	10 mL	269579	10/04/22 11:06	OM8W	EET CAL 4
Total/NA	Analysis	8082	DL	100	1 mL	1 mL	270269	10/06/22 09:56	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL2		20.14 g	10 mL	269579	10/04/22 11:06	OM8W	EET CAL 4
Total/NA	Analysis	8082	DL2	10000	1 mL	1 mL	270269	10/06/22 12:20	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269700	10/04/22 11:44	B4QL	EET CAL 4
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-111681-2
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Client Sample ID: Unit-2-SST-SO-W-SW-35J
Lab Sample ID: 570-111681-22
Date Collected: 09/30/22 12:42
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.11 g	10 mL	269579	10/04/22 10:06	OM8W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269889	10/05/22 22:50	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269700	10/04/22 11:44	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35K
Lab Sample ID: 570-111681-23
Date Collected: 09/30/22 12:48
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.17 g	10 mL	269579	10/04/22 10:06	OM8W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269889	10/05/22 23:11	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269700	10/04/22 11:44	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35L
Lab Sample ID: 570-111681-24
Date Collected: 09/30/22 12:53
Matrix: Solid
Date Received: 09/30/22 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.12 g	10 mL	269579	10/04/22 10:06	OM8W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	269889	10/05/22 23:32	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			269700	10/04/22 11:44	B4QL	EET CAL 4
	Instrument ID: MOI2									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-111681-2
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Job ID: 570-111681-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L00

Job ID: 570-111681-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-111681-1	Unit-2-LT-25E	Solid	09/30/22 10:05	09/30/22 17:07
570-111681-2	Unit-2-LT-30C	Solid	09/30/22 10:15	09/30/22 17:07
570-111681-3	Unit-2-LT-35A	Solid	09/30/22 10:20	09/30/22 17:07
570-111681-4	Unit-2-LT-35B	Solid	09/30/22 10:27	09/30/22 17:07
570-111681-5	Unit-2-LT-30D	Solid	09/30/22 10:32	09/30/22 17:07
570-111681-6	Unit-2-LT-30E	Solid	09/30/22 10:37	09/30/22 17:07
570-111681-7	Unit-2-LT-30E-DUP	Solid	09/30/22 10:37	09/30/22 17:07
570-111681-16	Unit-2-SST-SO-W-SW-35E	Solid	09/30/22 12:06	09/30/22 17:07
570-111681-22	Unit-2-SST-SO-W-SW-35J	Solid	09/30/22 12:42	09/30/22 17:07
570-111681-23	Unit-2-SST-SO-W-SW-35K	Solid	09/30/22 12:48	09/30/22 17:07
570-111681-24	Unit-2-SST-SO-W-SW-35L	Solid	09/30/22 12:53	09/30/22 17:07

Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Tuesday, October 4, 2022 9:23 AM
To: Patel, Virendra
Cc: Matthew Nelson; Daniel Zaragoza; Ian Cross
Subject: RE: Eurofins Calscience sample confirmation files from 570-111681-1 Etiwanda Commerce Center / 3653.0001L00
Attachments: COC 570-111681 (202209301750).pdf; SampleLoginAck_570-111681-1 [Std_Tal_Login_Ack].pdf

EXTERNAL EMAIL*

Hi Virendra,

Will you please have the lab analyze the following samples that were previously put on HOLD:

- Unit-2-LT-25E
- Unit-2-LT-30C
- Unit-2-LT-35A
- Unit-2-LT-35B
- Unit-2-LT-30D
- Unit-2-LT-30E
- Unit-2-LT-30E-DUP
- Unit-2-SST_SO-W-SW-35E
- Unit-2-SST_SO-W-SW-35J
- Unit-2-SST_SO-W-SW-35K
- Unit-2-SST_SO-W-SW-35L

Please have the lab run the analysis on RUSH TAT. Let me know if you have any questions.

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Saturday, October 1, 2022 7:21 AM
To: Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>
Subject: Eurofins Calscience sample confirmation files from 570-111681-1 Etiwanda Commerce Center / 3653.0001L00

This message originated outside your organization. Please use caution!

Hello,

Attached please find the sample confirmation files for job 570-111681-1; Etiwanda Commerce Center / 3653.0001L00

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [570-370807]
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

111681

CHAIN OF CUSTODY RECORD

570-111681 Chain of Custody

DATE: 9-30-22

PAGE: 1 OF 3

7440 Lincoln Way, Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus com or call us

LABORATORY CLIENT: Roux Associates, Inc

ADDRESS: 5150 Pacific Coast Hwy, Suite 450

CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804

TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

PO NO:

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'). ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

- ECI # 570 08787
- Report in dry weight
- Hold for analysis (A11)

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) /3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture	Hold for analysis		
1	Unit-2-LT-25E	9-30-22	1005	S	1	X													X				X	X		
2	Unit-2-LT-30C		1015																							
3	Unit-2-LT-35A		1020																							
4	Unit-2-LT-35B		1027																							
5	Unit-2-LT-30D		1032																							
6	Unit-2-LT-30E		1037																							
7	Unit-2-LT-30E-DUP		1037																							
8	Unit-2-LT-25F		1048																							
9	Unit-2-LT-25G		1054																							
10	Unit-2-LT-25H		1059																							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
	Sam DCS	9/30/22	13:25
Sam DCS	EC	9-30-2022	17:07

5.9/5.9 SC12

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 9-30-22

PAGE: 2 OF 3

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For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

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TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

PO NO:

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
- EC1 #57008787
- Report in dry weight
- Hold for analysis samples specified

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) 1,3,5,Y,O,C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Moisture	Hold for analysis		
11	Unit-2-LT-20N	9-30-22	1120	S	1	X													X				X	X		
12	Unit-2-SST_SO-W-SW-35A		1133																					X		
13	Unit-2-SST_SO-W-SW-35B		1137																							
14	Unit-2-SST_SO-W-SW-35C		1142																							
15	Unit-2-SST_SO-W-SW-35D		1148																							
16	Unit-2-SST_SO-W-SW-35E		1206																					X		
17	Unit-2-SST_SO-W-SW-35F		1153																						,	
18	Unit-2-SST_SO-W-SW-35G		1212																							
19	Unit-2-SST_SO-W-SW-35H		1225																							
20	Unit-2-SST_SO-W-SW-35H-DUP		1225																							

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Sam DCS	Date: 9/30/22	Time: 3:25p
Relinquished by: (Signature) Sam DCS	Received by: (Signature/Affiliation) EC	Date 9-30-2022	Time 17:07
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

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111681

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 9-30-22

PAGE: 3 OF 3

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus com or call us.

LABORATORY CLIENT: Roux Associates, Inc

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CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804

TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

P O NO:

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

- ECI # 5700787
- Report in dry weight
- Hold for analysis the samples specified

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) /35WD C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture	Hold for analysis		
21	Unit-2-SST_SO-W-SW-35I	9-30-22	1239	S	1	X													X				X			
22	Unit-2-SST_SO-W-SW-35J		1242																					X		
23	Unit-2-SST_SO-W-SW-35K		1248																							
24	Unit-2-SST_SO-W-SW-35L		1253																							
25	Unit-2-SST_SO-W-SW-35M		1301																							
26	Unit 2-SST_SO-W-SW-35N		1307																							
27	Unit-2-SST_SO-W-SW-35O		1314																							

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Sam DCS	Date: 9/30/22	Time: 3:25pm
Relinquished by: (Signature) Sam DCS	Received by: (Signature/Affiliation) EC	Date: 9-30-2022	Time: 17:07
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time:

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10/9/2022

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-111681-2

Login Number: 111681
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-112149-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
10/8/2022 8:36:48 AM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-112149-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-112149-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112149-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-112149-1

Comments
No additional comments.

Receipt
The samples were received on 10/5/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112149-1

Client Sample ID: Unit-2-SST-SO-W-SW-35P — Lab Sample ID: 570-112149-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	390		52		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35Q — Lab Sample ID: 570-112149-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1200		250		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35R — Lab Sample ID: 570-112149-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	480		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35S — Lab Sample ID: 570-112149-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	320		69		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35T — Lab Sample ID: 570-112149-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	190		52		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35U — Lab Sample ID: 570-112149-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	230		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35V — Lab Sample ID: 570-112149-7

No Detections.

This Detection Summary does not include radiochemical test results.

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-SST-SO-W-SW-35P **Lab Sample ID: 570-112149-1**
Date Collected: 10/05/22 12:12 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 10:42	1
Aroclor-1221	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 10:42	1
Aroclor-1232	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 10:42	1
Aroclor-1242	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 10:42	1
Aroclor-1248	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 10:42	1
Aroclor-1254	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 10:42	1
Aroclor-1260	390		52		ug/Kg	☼	10/05/22 17:46	10/07/22 10:42	1
Aroclor-1262	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 10:42	1
Aroclor-1268	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 10:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*78*		*24 - 136*	*10/05/22 17:46*	*10/07/22 10:42*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*37 - 135*	*10/05/22 17:46*	*10/07/22 10:42*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-35Q **Lab Sample ID: 570-112149-2**
Date Collected: 10/05/22 12:20 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:03	1
Aroclor-1221	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:03	1
Aroclor-1232	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:03	1
Aroclor-1242	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:03	1
Aroclor-1248	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:03	1
Aroclor-1254	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:03	1
Aroclor-1262	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:03	1
Aroclor-1268	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*66*		*24 - 136*	*10/05/22 17:46*	*10/07/22 11:03*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*37 - 135*	*10/05/22 17:46*	*10/07/22 11:03*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-35R **Lab Sample ID: 570-112149-3**
Date Collected: 10/05/22 12:27 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:24	1
Aroclor-1221	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:24	1
Aroclor-1232	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:24	1
Aroclor-1242	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:24	1
Aroclor-1248	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:24	1
Aroclor-1254	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:24	1
Aroclor-1260	480		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:24	1
Aroclor-1262	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:24	1
Aroclor-1268	ND		50		ug/Kg	☼	10/05/22 17:46	10/07/22 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*76*		*24 - 136*	*10/05/22 17:46*	*10/07/22 11:24*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 135*	*10/05/22 17:46*	*10/07/22 11:24*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-SST-SO-W-SW-35S **Lab Sample ID: 570-112149-4**
Date Collected: 10/05/22 12:35 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		69		ug/Kg	☼	10/05/22 17:46	10/07/22 11:46	1
Aroclor-1221	ND		69		ug/Kg	☼	10/05/22 17:46	10/07/22 11:46	1
Aroclor-1232	ND		69		ug/Kg	☼	10/05/22 17:46	10/07/22 11:46	1
Aroclor-1242	ND		69		ug/Kg	☼	10/05/22 17:46	10/07/22 11:46	1
Aroclor-1248	ND		69		ug/Kg	☼	10/05/22 17:46	10/07/22 11:46	1
Aroclor-1254	ND		69		ug/Kg	☼	10/05/22 17:46	10/07/22 11:46	1
Aroclor-1260	320		69		ug/Kg	☼	10/05/22 17:46	10/07/22 11:46	1
Aroclor-1262	ND		69		ug/Kg	☼	10/05/22 17:46	10/07/22 11:46	1
Aroclor-1268	ND		69		ug/Kg	☼	10/05/22 17:46	10/07/22 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*76*		*24 - 136*	*10/05/22 17:46*	*10/07/22 11:46*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*37 - 135*	*10/05/22 17:46*	*10/07/22 11:46*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-35T **Lab Sample ID: 570-112149-5**
Date Collected: 10/05/22 12:41 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 12:07	1
Aroclor-1221	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 12:07	1
Aroclor-1232	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 12:07	1
Aroclor-1242	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 12:07	1
Aroclor-1248	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 12:07	1
Aroclor-1254	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 12:07	1
Aroclor-1260	190		52		ug/Kg	☼	10/05/22 17:46	10/07/22 12:07	1
Aroclor-1262	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 12:07	1
Aroclor-1268	ND		52		ug/Kg	☼	10/05/22 17:46	10/07/22 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*63*		*24 - 136*	*10/05/22 17:46*	*10/07/22 12:07*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*37 - 135*	*10/05/22 17:46*	*10/07/22 12:07*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-35U **Lab Sample ID: 570-112149-6**
Date Collected: 10/05/22 12:48 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:29	1
Aroclor-1221	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:29	1
Aroclor-1232	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:29	1
Aroclor-1242	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:29	1
Aroclor-1248	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:29	1
Aroclor-1254	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:29	1
Aroclor-1260	230		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:29	1
Aroclor-1262	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:29	1
Aroclor-1268	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*	*10/05/22 17:46*	*10/07/22 12:29*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*37 - 135*	*10/05/22 17:46*	*10/07/22 12:29*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-SST-SO-W-SW-35V **Lab Sample ID: 570-112149-7**
Date Collected: 10/05/22 12:00 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:50	1
Aroclor-1221	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:50	1
Aroclor-1232	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:50	1
Aroclor-1242	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:50	1
Aroclor-1248	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:50	1
Aroclor-1254	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:50	1
Aroclor-1260	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:50	1
Aroclor-1262	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:50	1
Aroclor-1268	ND		51		ug/Kg	☼	10/05/22 17:46	10/07/22 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*96*		*24 - 136*	*10/05/22 17:46*	*10/07/22 12:50*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*37 - 135*	*10/05/22 17:46*	*10/07/22 12:50*	*1*

Client: Roux Associates, Inc.
Job ID: 570-112149-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: Unit-2-SST-SO-W-SW-35Q
Lab Sample ID: 570-112149-2
Date Collected: 10/05/22 12:20
Matrix: Solid
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	1200		250		ug/Kg	☼	10/05/22 17:46	10/07/22 14:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*71*		*24 - 136*	*10/05/22 17:46*	*10/07/22 14:58*	*5*
DCB Decachlorobiphenyl (Surr)	*68*		*37 - 135*	*10/05/22 17:46*	*10/07/22 14:58*	*5*

General Chemistry

Client Sample ID: Unit-2-SST-SO-W-SW-35P **Lab Sample ID: 570-112149-1**
Date Collected: 10/05/22 12:12 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.5		0.1		%			10/06/22 12:51	1

Client Sample ID: Unit-2-SST-SO-W-SW-35Q **Lab Sample ID: 570-112149-2**
Date Collected: 10/05/22 12:20 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.5		0.1		%			10/06/22 12:51	1

Client Sample ID: Unit-2-SST-SO-W-SW-35R **Lab Sample ID: 570-112149-3**
Date Collected: 10/05/22 12:27 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.3		0.1		%			10/06/22 12:51	1

Client Sample ID: Unit-2-SST-SO-W-SW-35S **Lab Sample ID: 570-112149-4**
Date Collected: 10/05/22 12:35 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	27.8		0.1		%			10/06/22 12:51	1

Client Sample ID: Unit-2-SST-SO-W-SW-35T **Lab Sample ID: 570-112149-5**
Date Collected: 10/05/22 12:41 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.2		0.1		%			10/06/22 12:51	1

Client Sample ID: Unit-2-SST-SO-W-SW-35U **Lab Sample ID: 570-112149-6**
Date Collected: 10/05/22 12:48 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.3		0.1		%			10/06/22 12:51	1

Client Sample ID: Unit-2-SST-SO-W-SW-35V **Lab Sample ID: 570-112149-7**
Date Collected: 10/05/22 12:00 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.2		0.1		%			10/06/22 12:51	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112149-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-112149-1	Unit-2-SST-SO-W-SW-35P	78	86
570-112149-2 - DL	Unit-2-SST-SO-W-SW-35Q	71	68
570-112149-2	Unit-2-SST-SO-W-SW-35Q	66	67
570-112149-3	Unit-2-SST-SO-W-SW-35R	76	95
570-112149-4	Unit-2-SST-SO-W-SW-35S	76	74
570-112149-5	Unit-2-SST-SO-W-SW-35T	63	68
570-112149-6	Unit-2-SST-SO-W-SW-35U	95	74
570-112149-7	Unit-2-SST-SO-W-SW-35V	96	77
570-112156-A-4-B MS	Matrix Spike	104	87
570-112156-A-4-C MSD	Matrix Spike Duplicate	99	86
LCS 570-270159/2-A	Lab Control Sample	94	84
LCSD 570-270159/3-A	Lab Control Sample Dup	96	89
MB 570-270159/1-A	Method Blank	105	98

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-270159/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 270620
Prep Batch: 270159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		10/05/22 17:46	10/07/22 08:55	1
Aroclor-1221	ND		50		ug/Kg		10/05/22 17:46	10/07/22 08:55	1
Aroclor-1232	ND		50		ug/Kg		10/05/22 17:46	10/07/22 08:55	1
Aroclor-1242	ND		50		ug/Kg		10/05/22 17:46	10/07/22 08:55	1
Aroclor-1248	ND		50		ug/Kg		10/05/22 17:46	10/07/22 08:55	1
Aroclor-1254	ND		50		ug/Kg		10/05/22 17:46	10/07/22 08:55	1
Aroclor-1260	ND		50		ug/Kg		10/05/22 17:46	10/07/22 08:55	1
Aroclor-1262	ND		50		ug/Kg		10/05/22 17:46	10/07/22 08:55	1
Aroclor-1268	ND		50		ug/Kg		10/05/22 17:46	10/07/22 08:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*105*		*24 - 136*	*10/05/22 17:46*	*10/07/22 08:55*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*37 - 135*	*10/05/22 17:46*	*10/07/22 08:55*	*1*

Lab Sample ID: LCS 570-270159/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 270620
Prep Batch: 270159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	124.1		ug/Kg		124	46 - 131
Aroclor-1260	100	108.4		ug/Kg		108	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*94*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*84*		*37 - 135*

Lab Sample ID: LCSD 570-270159/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 270620
Prep Batch: 270159

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	128.3		ug/Kg		128	46 - 131	3	32
Aroclor-1260	100	118.2		ug/Kg		118	40 - 150	9	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*96*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*89*		*37 - 135*

Lab Sample ID: 570-112156-A-4-B MS
Client Sample ID: Matrix Spike
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 270620
Prep Batch: 270159

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		99.2	119.0		ug/Kg		120	29 - 174
Aroclor-1260	ND		99.2	113.5		ug/Kg		114	20 - 180

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

Lab Sample ID: 570-112156-A-4-B MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 270620 **Prep Batch: 270159**

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*104*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 135*

Lab Sample ID: 570-112156-A-4-C MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 270620 **Prep Batch: 270159**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		99.5	120.3		ug/Kg		121	29 - 174	1	40
Aroclor-1260	ND		99.5	104.8		ug/Kg		105	20 - 180	8	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*99*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*86*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-112149-6 DU **Client Sample ID: Unit-2-SST-SO-W-SW-35U**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 270500

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	2.3			2.3		%				0.9	10

QC Association Summary

Client: Roux Associates, Inc.
Job ID: 570-112149-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

GC Semi VOA

Prep Batch: 270159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112149-1	Unit-2-SST-SO-W-SW-35P	Total/NA	Solid	3540C	
570-112149-2 - DL	Unit-2-SST-SO-W-SW-35Q	Total/NA	Solid	3540C	
570-112149-2	Unit-2-SST-SO-W-SW-35Q	Total/NA	Solid	3540C	
570-112149-3	Unit-2-SST-SO-W-SW-35R	Total/NA	Solid	3540C	
570-112149-4	Unit-2-SST-SO-W-SW-35S	Total/NA	Solid	3540C	
570-112149-5	Unit-2-SST-SO-W-SW-35T	Total/NA	Solid	3540C	
570-112149-6	Unit-2-SST-SO-W-SW-35U	Total/NA	Solid	3540C	
570-112149-7	Unit-2-SST-SO-W-SW-35V	Total/NA	Solid	3540C	
MB 570-270159/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-270159/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-270159/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-112156-A-4-B MS	Matrix Spike	Total/NA	Solid	3540C	
570-112156-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3540C	

Analysis Batch: 270620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112149-1	Unit-2-SST-SO-W-SW-35P	Total/NA	Solid	8082	270159
570-112149-2	Unit-2-SST-SO-W-SW-35Q	Total/NA	Solid	8082	270159
570-112149-2 - DL	Unit-2-SST-SO-W-SW-35Q	Total/NA	Solid	8082	270159
570-112149-3	Unit-2-SST-SO-W-SW-35R	Total/NA	Solid	8082	270159
570-112149-4	Unit-2-SST-SO-W-SW-35S	Total/NA	Solid	8082	270159
570-112149-5	Unit-2-SST-SO-W-SW-35T	Total/NA	Solid	8082	270159
570-112149-6	Unit-2-SST-SO-W-SW-35U	Total/NA	Solid	8082	270159
570-112149-7	Unit-2-SST-SO-W-SW-35V	Total/NA	Solid	8082	270159
MB 570-270159/1-A	Method Blank	Total/NA	Solid	8082	270159
LCS 570-270159/2-A	Lab Control Sample	Total/NA	Solid	8082	270159
LCSD 570-270159/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	270159
570-112156-A-4-B MS	Matrix Spike	Total/NA	Solid	8082	270159
570-112156-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	270159

General Chemistry

Analysis Batch: 270500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112149-1	Unit-2-SST-SO-W-SW-35P	Total/NA	Solid	Moisture	
570-112149-2	Unit-2-SST-SO-W-SW-35Q	Total/NA	Solid	Moisture	
570-112149-3	Unit-2-SST-SO-W-SW-35R	Total/NA	Solid	Moisture	
570-112149-4	Unit-2-SST-SO-W-SW-35S	Total/NA	Solid	Moisture	
570-112149-5	Unit-2-SST-SO-W-SW-35T	Total/NA	Solid	Moisture	
570-112149-6	Unit-2-SST-SO-W-SW-35U	Total/NA	Solid	Moisture	
570-112149-7	Unit-2-SST-SO-W-SW-35V	Total/NA	Solid	Moisture	
570-112149-6 DU	Unit-2-SST-SO-W-SW-35U	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-112149-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-SO-W-SW-35P
Lab Sample ID: 570-112149-1
Date Collected: 10/05/22 12:12
Matrix: Solid
Date Received: 10/05/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.16 g	10 mL	270159	10/05/22 17:46	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	270620	10/07/22 10:42	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			270500	10/06/22 12:51	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35Q
Lab Sample ID: 570-112149-2
Date Collected: 10/05/22 12:20
Matrix: Solid
Date Received: 10/05/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.13 g	10 mL	270159	10/05/22 17:46	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	270620	10/07/22 11:03	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		20.13 g	10 mL	270159	10/05/22 17:46	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	270620	10/07/22 14:58	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			270500	10/06/22 12:51	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35R
Lab Sample ID: 570-112149-3
Date Collected: 10/05/22 12:27
Matrix: Solid
Date Received: 10/05/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.18 g	10 mL	270159	10/05/22 17:46	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	270620	10/07/22 11:24	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			270500	10/06/22 12:51	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35S
Lab Sample ID: 570-112149-4
Date Collected: 10/05/22 12:35
Matrix: Solid
Date Received: 10/05/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.12 g	10 mL	270159	10/05/22 17:46	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	270620	10/07/22 11:46	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			270500	10/06/22 12:51	B4QL	EET CAL 4
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-112149-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-SO-W-SW-35T
Lab Sample ID: 570-112149-5
Date Collected: 10/05/22 12:41
Matrix: Solid
Date Received: 10/05/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.19 g	10 mL	270159	10/05/22 17:46	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	270620	10/07/22 12:07	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			270500	10/06/22 12:51	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35U
Lab Sample ID: 570-112149-6
Date Collected: 10/05/22 12:48
Matrix: Solid
Date Received: 10/05/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.23 g	10 mL	270159	10/05/22 17:46	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	270620	10/07/22 12:29	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			270500	10/06/22 12:51	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35V
Lab Sample ID: 570-112149-7
Date Collected: 10/05/22 12:00
Matrix: Solid
Date Received: 10/05/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.20 g	10 mL	270159	10/05/22 17:46	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	270620	10/07/22 12:50	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			270500	10/06/22 12:51	B4QL	EET CAL 4
	Instrument ID: MOI2									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-112149-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112149-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112149-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-112149-1	Unit-2-SST-SO-W-SW-35P	Solid	10/05/22 12:12	10/05/22 17:00
570-112149-2	Unit-2-SST-SO-W-SW-35Q	Solid	10/05/22 12:20	10/05/22 17:00
570-112149-3	Unit-2-SST-SO-W-SW-35R	Solid	10/05/22 12:27	10/05/22 17:00
570-112149-4	Unit-2-SST-SO-W-SW-35S	Solid	10/05/22 12:35	10/05/22 17:00
570-112149-5	Unit-2-SST-SO-W-SW-35T	Solid	10/05/22 12:41	10/05/22 17:00
570-112149-6	Unit-2-SST-SO-W-SW-35U	Solid	10/05/22 12:48	10/05/22 17:00
570-112149-7	Unit-2-SST-SO-W-SW-35V	Solid	10/05/22 12:00	10/05/22 17:00

112149

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570-112149 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE. 10-5-2022

PAGE 1 OF 2

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LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	PO NO: 57008787
CITY: Long Beach CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL.: (818) 726-4265 / (951) 987 1124 / (818) 383-2312	SAMPLER(S) (PRINT): Ian Cross
E-MAIL.: mnelson@rouxinc com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc com	

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6 C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Hold	Moisture		
1	Unit-2-SST-SO-W-SW7-35 P	10-5-22	1212	Solid	DNA 2oz Jar														X					X		
2	Unit-2-SST-SO-W-SW-35 Q		1220																X					X		
3	Unit-2-SST-SO-W-SW-35 R		1227																X					X		
4	Unit-2-SST-SO-W-SW-35-6		1235																X					X		
5	Unit-2-SST-SO-W-SW-35 T		1241																X					X		
6	Unit-2-SST-SO-W-SW-35 U		1248																X					X		
7	Unit-2-SST-SO-W-SW-35 V		1200																X					X		
8	Unit-2-SST-SO-W-SW-40 A		1300																				X			
9	Unit-2-SST-SO-W-SW-40 B		1307																				X			
10	Unit-2-SST-SO-W-SW-40 C	↓	1317	↓	↓																		X			

Relinquished by (Signature): Ian Cross	Received by (Signature/Affiliation): Earl Gorman DCS	Date: 10/05/22	Time: 4:03 pm
Relinquished by (Signature): Earl Gorman	Received by (Signature/Affiliation): EC	Date: 10-5-2022	Time: 17:00
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:

3.6/3.4 SC11

06/02/14 Revision

112149

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CHAIN OF CUSTODY RECORD

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WO # / LAB USE ONLY

DATE. 10-5-2022

PAGE 2 OF 2

LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	PO NO: 57008787
CITY: Long Beach CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL.: (818) 726-4265 / (951) 987-1124 / (818) 383-2312	SAMPLER(S) (PRINT): Ian Cross
E-MAIL.: mnelson@rouxinc com / dzaragoza@rouxinc com / mnishibayashi@rouxinc com	

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Hold			
11	unit-2-LT-25S	10-5-22	1415	Solid	1																	X			
12	unit-2-LT-30G		1432		1																	X			
	unit-2-LT-~~35~~				~~1~~																	X		FC	
13	unit-2-LT-40A		1500		1																	X			
14	unit-2-LT-25SD		1415		1																	X			
15	unit-2-LT-35C	~~10-5-22~~ 10-4-22	1444		1																	X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
[signature]	[signature] Eric Gorman DG	10/05/22	4:03 pm
[signature] Eric Gorman 4:57	[signature] EC	10-5-2022	17:00

06/02/14 Revision

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10/8/2022

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-112149-1

Login Number: 112149
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-112149-2
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
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Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
10/17/2022 11:07:05 AM

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-112149-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-112149-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112149-2

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-112149-2

Comments
No additional comments.

Receipt
The samples were received on 10/5/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

GC Semi VOA
Method 8082: Surrogate recovery for the following sample was outside control limits: (570-112402-A-17-A MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

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

Detection Summary

Client: Roux Associates, Inc.
Job ID: 570-112149-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-30G
Lab Sample ID: 570-112149-12

No Detections.

Client Sample ID: Unit-2-LT-40A
Lab Sample ID: 570-112149-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254 - DL	1300		250		ug/Kg	5	☼	8082	Total/NA
Aroclor-1260 - DL	600		250		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-35C
Lab Sample ID: 570-112149-15

No Detections.

This Detection Summary does not include radiochemical test results.

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-30G **Lab Sample ID: 570-112149-12**
Date Collected: 10/05/22 14:32 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 11:57	1
Aroclor-1221	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 11:57	1
Aroclor-1232	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 11:57	1
Aroclor-1242	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 11:57	1
Aroclor-1248	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 11:57	1
Aroclor-1254	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 11:57	1
Aroclor-1260	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 11:57	1
Aroclor-1262	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 11:57	1
Aroclor-1268	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*93*		*24 - 136*	*10/12/22 10:23*	*10/14/22 11:57*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*37 - 135*	*10/12/22 10:23*	*10/14/22 11:57*	*1*

Client Sample ID: Unit-2-LT-40A **Lab Sample ID: 570-112149-13**
Date Collected: 10/05/22 15:00 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 12:16	1
Aroclor-1221	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 12:16	1
Aroclor-1232	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 12:16	1
Aroclor-1242	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 12:16	1
Aroclor-1248	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 12:16	1
Aroclor-1262	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 12:16	1
Aroclor-1268	ND		50		ug/Kg	☼	10/12/22 10:23	10/14/22 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*76*		*24 - 136*	*10/12/22 10:23*	*10/14/22 12:16*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*37 - 135*	*10/12/22 10:23*	*10/14/22 12:16*	*1*

Client Sample ID: Unit-2-LT-35C **Lab Sample ID: 570-112149-15**
Date Collected: 10/05/22 14:44 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/12/22 10:23	10/14/22 12:35	1
Aroclor-1221	ND		51		ug/Kg	☼	10/12/22 10:23	10/14/22 12:35	1
Aroclor-1232	ND		51		ug/Kg	☼	10/12/22 10:23	10/14/22 12:35	1
Aroclor-1242	ND		51		ug/Kg	☼	10/12/22 10:23	10/14/22 12:35	1
Aroclor-1248	ND		51		ug/Kg	☼	10/12/22 10:23	10/14/22 12:35	1
Aroclor-1254	ND		51		ug/Kg	☼	10/12/22 10:23	10/14/22 12:35	1
Aroclor-1260	ND		51		ug/Kg	☼	10/12/22 10:23	10/14/22 12:35	1
Aroclor-1262	ND		51		ug/Kg	☼	10/12/22 10:23	10/14/22 12:35	1
Aroclor-1268	ND		51		ug/Kg	☼	10/12/22 10:23	10/14/22 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*89*		*24 - 136*	*10/12/22 10:23*	*10/14/22 12:35*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*37 - 135*	*10/12/22 10:23*	*10/14/22 12:35*	*1*

Client: Roux Associates, Inc.
Job ID: 570-112149-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: Unit-2-LT-40A
Date Collected: 10/05/22 15:00
Date Received: 10/05/22 17:00

Lab Sample ID: 570-112149-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1254	1300		250		ug/Kg	☼	10/12/22 10:23	10/14/22 12:54	5
Aroclor-1260	600		250		ug/Kg	☼	10/12/22 10:23	10/14/22 12:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*75*		*24 - 136*	*10/12/22 10:23*	*10/14/22 12:54*	*5*

General Chemistry

Client Sample ID: Unit-2-LT-30G **Lab Sample ID: 570-112149-12**
Date Collected: 10/05/22 14:32 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.2		0.1		%			10/12/22 12:59	1

Client Sample ID: Unit-2-LT-40A **Lab Sample ID: 570-112149-13**
Date Collected: 10/05/22 15:00 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.2		0.1		%			10/12/22 12:59	1

Client Sample ID: Unit-2-LT-35C **Lab Sample ID: 570-112149-15**
Date Collected: 10/05/22 14:44 **Matrix: Solid**
Date Received: 10/05/22 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.7		0.1		%			10/12/22 12:59	1

Surrogate Summary

Client: Roux Associates, Inc. Job ID: 570-112149-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-112149-12	Unit-2-LT-30G	93	108
570-112149-13	Unit-2-LT-40A	76	82
570-112149-13 - DL	Unit-2-LT-40A	75	
570-112149-15	Unit-2-LT-35C	89	86
570-112402-A-17-A MS	Matrix Spike	117	140 S1+
570-112402-A-17-B MSD	Matrix Spike Duplicate	110	131
LCS 570-271601/2-A	Lab Control Sample	100	83
LCSD 570-271601/3-A	Lab Control Sample Dup	101	91
MB 570-271601/1-A	Method Blank	107	135

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-271601/1-A
Matrix: Solid
Analysis Batch: 272581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 271601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		10/11/22 13:55	10/14/22 09:44	1
Aroclor-1221	ND		50		ug/Kg		10/11/22 13:55	10/14/22 09:44	1
Aroclor-1232	ND		50		ug/Kg		10/11/22 13:55	10/14/22 09:44	1
Aroclor-1242	ND		50		ug/Kg		10/11/22 13:55	10/14/22 09:44	1
Aroclor-1248	ND		50		ug/Kg		10/11/22 13:55	10/14/22 09:44	1
Aroclor-1254	ND		50		ug/Kg		10/11/22 13:55	10/14/22 09:44	1
Aroclor-1260	ND		50		ug/Kg		10/11/22 13:55	10/14/22 09:44	1
Aroclor-1262	ND		50		ug/Kg		10/11/22 13:55	10/14/22 09:44	1
Aroclor-1268	ND		50		ug/Kg		10/11/22 13:55	10/14/22 09:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*107*		*24 - 136*	*10/11/22 13:55*	*10/14/22 09:44*	*1*
DCB Decachlorobiphenyl (Surr)	*135*		*37 - 135*	*10/11/22 13:55*	*10/14/22 09:44*	*1*

Lab Sample ID: LCS 570-271601/2-A
Matrix: Solid
Analysis Batch: 272581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	120.5		ug/Kg		121	46 - 131
Aroclor-1260	100	98.80		ug/Kg		99	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*100*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*83*		*37 - 135*

Lab Sample ID: LCSD 570-271601/3-A
Matrix: Solid
Analysis Batch: 272581

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 271601

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	130.1		ug/Kg		130	46 - 131	8	32
Aroclor-1260	100	112.3		ug/Kg		112	40 - 150	13	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*101*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 135*

Lab Sample ID: 570-112402-A-17-A MS
Matrix: Solid
Analysis Batch: 272581

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 271601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		124	203.8		ug/Kg	☼	165	29 - 174
Aroclor-1260	ND		124	203.9		ug/Kg	☼	165	20 - 180

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

Lab Sample ID: 570-112402-A-17-A MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 272581 **Prep Batch: 271601**

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*117*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*140*	*S1+*	*37 - 135*

Lab Sample ID: 570-112402-A-17-B MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 272581 **Prep Batch: 271601**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		123	195.7		ug/Kg	☼	159	29 - 174	4	40
Aroclor-1260	ND		123	189.8		ug/Kg	☼	154	20 - 180	7	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*110*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*131*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-112149-13 DU **Client Sample ID: Unit-2-LT-40A**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 272013

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	0.2		0.2		%		9	10

QC Association Summary

Client: Roux Associates, Inc.
Job ID: 570-112149-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

GC Semi VOA

Prep Batch: 271601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112149-12	Unit-2-LT-30G	Total/NA	Solid	3540C	
570-112149-13 - DL	Unit-2-LT-40A	Total/NA	Solid	3540C	
570-112149-13	Unit-2-LT-40A	Total/NA	Solid	3540C	
570-112149-15	Unit-2-LT-35C	Total/NA	Solid	3540C	
MB 570-271601/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-271601/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-271601/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-112402-A-17-A MS	Matrix Spike	Total/NA	Solid	3540C	
570-112402-A-17-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3540C	

Analysis Batch: 272581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112149-12	Unit-2-LT-30G	Total/NA	Solid	8082	271601
570-112149-13	Unit-2-LT-40A	Total/NA	Solid	8082	271601
570-112149-13 - DL	Unit-2-LT-40A	Total/NA	Solid	8082	271601
570-112149-15	Unit-2-LT-35C	Total/NA	Solid	8082	271601
MB 570-271601/1-A	Method Blank	Total/NA	Solid	8082	271601
LCS 570-271601/2-A	Lab Control Sample	Total/NA	Solid	8082	271601
LCSD 570-271601/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	271601
570-112402-A-17-A MS	Matrix Spike	Total/NA	Solid	8082	271601
570-112402-A-17-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	271601

General Chemistry

Analysis Batch: 272013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112149-12	Unit-2-LT-30G	Total/NA	Solid	Moisture	
570-112149-13	Unit-2-LT-40A	Total/NA	Solid	Moisture	
570-112149-15	Unit-2-LT-35C	Total/NA	Solid	Moisture	
570-112149-13 DU	Unit-2-LT-40A	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-112149-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-30G — Lab Sample ID: 570-112149-12

Date Collected: 10/05/22 14:32 **Matrix: Solid**
Date Received: 10/05/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.25 g	10 mL	271601	10/12/22 10:23	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	272581	10/14/22 11:57	AJ2Q	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			272013	10/12/22 12:59	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-40A — Lab Sample ID: 570-112149-13

Date Collected: 10/05/22 15:00 **Matrix: Solid**
Date Received: 10/05/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.16 g	10 mL	271601	10/12/22 10:23	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	272581	10/14/22 12:16	AJ2Q	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		20.16 g	10 mL	271601	10/12/22 10:23	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	272581	10/14/22 12:54	AJ2Q	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			272013	10/12/22 12:59	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-35C — Lab Sample ID: 570-112149-15

Date Collected: 10/05/22 14:44 **Matrix: Solid**
Date Received: 10/05/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.14 g	10 mL	271601	10/12/22 10:23	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	272581	10/14/22 12:35	AJ2Q	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			272013	10/12/22 12:59	B4QL	EET CAL 4
	Instrument ID: MOI2									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc.
Job ID: 570-112149-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Job ID: 570-112149-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Job ID: 570-112149-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-112149-12	Unit-2-LT-30G	Solid	10/05/22 14:32	10/05/22 17:00
570-112149-13	Unit-2-LT-40A	Solid	10/05/22 15:00	10/05/22 17:00
570-112149-15	Unit-2-LT-35C	Solid	10/05/22 14:44	10/05/22 17:00

Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Tuesday, October 11, 2022 5:25 PM
To: Patel, Virendra
Cc: Matthew Nelson; Ian Cross
Subject: RE: Eurofins Calscience report and EDD files from 570-112149-1 Etiwanda Commerce Center / 3653.0001L000

EXTERNAL EMAIL*

Hi Virendra,

Will you please have the lab analyze the following samples that were previously put on HOLD:

- Unit-2-LT-30G
- Unit-2-LT-40A
- Unit-2-LT-35C

Please have the lab run the analysis on RUSH TAT. Let me know if you have any questions.

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Saturday, October 8, 2022 8:40 AM
To: Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>
Subject: Eurofins Calscience report and EDD files from 570-112149-1 Etiwanda Commerce Center / 3653.0001L000

This message originated outside your organization. Please use caution!

Hello,

Attached please find the report and EDD files for job 570-112149-1; Etiwanda Commerce Center / 3653.0001L000

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [570-373769]
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

112149

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Calscience

570-112149 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE. 10-5-2022

PAGE 1 OF 2

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us26_sales@eurofinsus com or call us

LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	P O NO: 57008787
CITY: Long Beach CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL.: (818) 726-4265 / (951) 987 1124 / (818) 383-2312	SAMPLER(S) (PRINT): Ian Cross
E-MAIL.: mnelson@rouxinc com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc com	

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6 C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Hold	Moisture		
1	Unit-2-SST-SO-W-SW-35 P	10-5-22	1212	Solid	DNA 2oz Jar														X					X		
2	Unit-2-SST-SO-W-SW-35 Q		1220																X					X		
3	Unit-2-SST-SO-W-SW-35 R		1227																X					X		
4	Unit-2-SST-SO-W-SW-35-6		1235																X					X		
5	Unit-2-SST-SO-W-SW-35 T		1241																X					X		
6	Unit-2-SST-SO-W-SW-35 U		1248																X					X		
7	Unit-2-SST-SO-W-SW-35 V		1200																X					X		
8	Unit-2-SST-SO-W-SW-40 A		1300																				X			
9	Unit-2-SST-SO-W-SW-40 B		1307																				X			
10	Unit-2-SST-SO-W-SW-40 C	↓	1317	↓	↓																		X			

Relinquished by (Signature): Ian Cross	Received by (Signature/Affiliation): Earl Gorman DCS	Date: 10/05/22	Time: 4:03 pm
Relinquished by (Signature): Earl Gorman	Received by (Signature/Affiliation): EC	Date: 10-5-2022	Time: 17:00
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date.	Time.

3.6/3.4 SC11

06/02/14 Revision

112149

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Calscience

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE. 10-5-2022

PAGE 2 OF 2

LABORATORY CLIENT: Roux Associates Inc

ADDRESS: 5150 Pacific Coast Hwy Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL. (818) 726-4265 / (951) 987-1124 / (818) 383-2312

E-MAIL. mnelson@rouxinc com / dzaragoza@rouxinc com / mnishibayashi@rouxinc com

CLIENT PROJECT NAME / NUMBER. Etiwanda Commerce Center / 3653 0001L000

P O NO 57008787

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF

GLOBAL ID:

LOG CODE

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Hold			
11	unit-2-LT-25S	10-5-22	1415	Solid	1																	X			
12	unit-2-LT-30G		1432		1																	X			
	unit-2-LT-~~35~~				~~1~~																	X	FC		
13	unit-2-LT-40A		1500		1																	X			
14	unit-2-LT-25SD		1415		1																	X			
15	unit-2-LT-35C	~~10-5-22~~ 10-6-22	1444		1																	X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
[signature]	[signature] Eric Gozman DG	10/05/22	4:03 pm
[signature] Eric Gozman 4:57	[signature] EC	10-5-2022	17:00

06/02/14 Revision

Page 20 of 21

10/17/2022

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-112149-2

Login Number: 112149
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-112940-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
10/17/2022 4:37:18 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-112940-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

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

Job ID: 570-112940-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-112940-1

Comments
No additional comments.

Receipt
The samples were received on 10/12/2022 2:18 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7° C.

GC Semi VOA
Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-272288 and analytical batch 570-273104 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Organic Prep
Method 3540C: Due to the matrix, the following samples could not be concentrated to the final method required volume: Unit-2-SST-SO-W-SW-35W (570-112940-1), Unit-2-SST-SO-W-SW-35X (570-112940-2), Unit-2-SST-SO-W-SW-35Y (570-112940-3), Unit-2-SST-SO-W-SW-35Z (570-112940-4), (570-112940-A-1 MS) and (570-112940-A-1 MSD). The reporting limits (RLs) are elevated proportionately. The final volume was changed from 10mL
to 20mL
8082

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-1

Client Sample ID: Unit-2-SST-SO-W-SW-35W — Lab Sample ID: 570-112940-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	670		100		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35X — Lab Sample ID: 570-112940-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	190		100		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	240		100		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35Y — Lab Sample ID: 570-112940-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	790		99		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-35Z — Lab Sample ID: 570-112940-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	2000	E	99		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-40B — Lab Sample ID: 570-112940-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	230		52		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	190		52		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-40B-D — Lab Sample ID: 570-112940-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	220		51		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	140		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-35D — Lab Sample ID: 570-112940-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	310		51		ug/Kg	1	☼	8082	Total/NA
Aroclor-1254 - DL	1000		100		ug/Kg	2	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-30F — Lab Sample ID: 570-112940-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	100		50		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	110		50		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-SST-SO-W-SW-35W **Lab Sample ID: 570-112940-1**
Date Collected: 10/12/22 09:00 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	F1	100		ug/Kg	☼	10/13/22 12:17	10/17/22 10:30	1
Aroclor-1221	ND		100		ug/Kg	☼	10/13/22 12:17	10/17/22 10:30	1
Aroclor-1232	ND		100		ug/Kg	☼	10/13/22 12:17	10/17/22 10:30	1
Aroclor-1242	ND		100		ug/Kg	☼	10/13/22 12:17	10/17/22 10:30	1
Aroclor-1248	ND		100		ug/Kg	☼	10/13/22 12:17	10/17/22 10:30	1
Aroclor-1254	ND		100		ug/Kg	☼	10/13/22 12:17	10/17/22 10:30	1
Aroclor-1260	670		100		ug/Kg	☼	10/13/22 12:17	10/17/22 10:30	1
Aroclor-1262	ND		100		ug/Kg	☼	10/13/22 12:17	10/17/22 10:30	1
Aroclor-1268	ND		100		ug/Kg	☼	10/13/22 12:17	10/17/22 10:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*78*		*24 - 136*	*10/13/22 12:17*	*10/17/22 10:30*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*37 - 135*	*10/13/22 12:17*	*10/17/22 10:30*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-35X **Lab Sample ID: 570-112940-2**
Date Collected: 10/12/22 09:08 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	10/13/22 12:17	10/17/22 11:07	1
Aroclor-1221	ND		100		ug/Kg	☼	10/13/22 12:17	10/17/22 11:07	1
Aroclor-1232	ND		100		ug/Kg	☼	10/13/22 12:17	10/17/22 11:07	1
Aroclor-1242	ND		100		ug/Kg	☼	10/13/22 12:17	10/17/22 11:07	1
Aroclor-1248	ND		100		ug/Kg	☼	10/13/22 12:17	10/17/22 11:07	1
Aroclor-1254	190		100		ug/Kg	☼	10/13/22 12:17	10/17/22 11:07	1
Aroclor-1260	240		100		ug/Kg	☼	10/13/22 12:17	10/17/22 11:07	1
Aroclor-1262	ND		100		ug/Kg	☼	10/13/22 12:17	10/17/22 11:07	1
Aroclor-1268	ND		100		ug/Kg	☼	10/13/22 12:17	10/17/22 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*53*		*24 - 136*	*10/13/22 12:17*	*10/17/22 11:07*	*1*
DCB Decachlorobiphenyl (Surr)	*41*		*37 - 135*	*10/13/22 12:17*	*10/17/22 11:07*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-35Y **Lab Sample ID: 570-112940-3**
Date Collected: 10/12/22 09:16 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:26	1
Aroclor-1221	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:26	1
Aroclor-1232	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:26	1
Aroclor-1242	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:26	1
Aroclor-1248	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:26	1
Aroclor-1254	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:26	1
Aroclor-1260	790		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:26	1
Aroclor-1262	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:26	1
Aroclor-1268	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*65*		*24 - 136*	*10/13/22 12:17*	*10/17/22 11:26*	*1*
DCB Decachlorobiphenyl (Surr)	*53*		*37 - 135*	*10/13/22 12:17*	*10/17/22 11:26*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-SST-SO-W-SW-35Z **Lab Sample ID: 570-112940-4**
Date Collected: 10/12/22 09:22 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:45	1
Aroclor-1221	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:45	1
Aroclor-1232	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:45	1
Aroclor-1242	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:45	1
Aroclor-1248	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:45	1
Aroclor-1254	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:45	1
Aroclor-1260	**2000**	**E**	99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:45	1
Aroclor-1262	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:45	1
Aroclor-1268	ND		99		ug/Kg	☼	10/13/22 12:17	10/17/22 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*72*		*24 - 136*	*10/13/22 12:17*	*10/17/22 11:45*	*1*
DCB Decachlorobiphenyl (Surr)	*57*		*37 - 135*	*10/13/22 12:17*	*10/17/22 11:45*	*1*

Client Sample ID: Unit-2-LT-40B **Lab Sample ID: 570-112940-11**
Date Collected: 10/12/22 11:00 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	10/13/22 12:17	10/17/22 12:04	1
Aroclor-1221	ND		52		ug/Kg	☼	10/13/22 12:17	10/17/22 12:04	1
Aroclor-1232	ND		52		ug/Kg	☼	10/13/22 12:17	10/17/22 12:04	1
Aroclor-1242	ND		52		ug/Kg	☼	10/13/22 12:17	10/17/22 12:04	1
Aroclor-1248	ND		52		ug/Kg	☼	10/13/22 12:17	10/17/22 12:04	1
Aroclor-1254	**230**		52		ug/Kg	☼	10/13/22 12:17	10/17/22 12:04	1
Aroclor-1260	**190**		52		ug/Kg	☼	10/13/22 12:17	10/17/22 12:04	1
Aroclor-1262	ND		52		ug/Kg	☼	10/13/22 12:17	10/17/22 12:04	1
Aroclor-1268	ND		52		ug/Kg	☼	10/13/22 12:17	10/17/22 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*91*		*24 - 136*	*10/13/22 12:17*	*10/17/22 12:04*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*37 - 135*	*10/13/22 12:17*	*10/17/22 12:04*	*1*

Client Sample ID: Unit-2-LT-40B-D **Lab Sample ID: 570-112940-12**
Date Collected: 10/12/22 11:00 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:23	1
Aroclor-1221	ND		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:23	1
Aroclor-1232	ND		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:23	1
Aroclor-1242	ND		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:23	1
Aroclor-1248	ND		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:23	1
Aroclor-1254	**220**		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:23	1
Aroclor-1260	**140**		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:23	1
Aroclor-1262	ND		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:23	1
Aroclor-1268	ND		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*84*		*24 - 136*	*10/13/22 12:17*	*10/17/22 12:23*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*37 - 135*	*10/13/22 12:17*	*10/17/22 12:23*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-35D **Lab Sample ID: 570-112940-18**
Date Collected: 10/12/22 11:48 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:42	1
Aroclor-1221	ND		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:42	1
Aroclor-1232	ND		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:42	1
Aroclor-1242	ND		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:42	1
Aroclor-1248	ND		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:42	1
Aroclor-1260	310		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:42	1
Aroclor-1262	ND		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:42	1
Aroclor-1268	ND		51		ug/Kg	☼	10/13/22 12:17	10/17/22 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*107*		*24 - 136*	*10/13/22 12:17*	*10/17/22 12:42*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*37 - 135*	*10/13/22 12:17*	*10/17/22 12:42*	*1*

Client Sample ID: Unit-2-LT-30F **Lab Sample ID: 570-112940-22**
Date Collected: 10/12/22 12:14 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	10/13/22 12:17	10/17/22 13:01	1
Aroclor-1221	ND		50		ug/Kg	☼	10/13/22 12:17	10/17/22 13:01	1
Aroclor-1232	ND		50		ug/Kg	☼	10/13/22 12:17	10/17/22 13:01	1
Aroclor-1242	ND		50		ug/Kg	☼	10/13/22 12:17	10/17/22 13:01	1
Aroclor-1248	ND		50		ug/Kg	☼	10/13/22 12:17	10/17/22 13:01	1
Aroclor-1254	100		50		ug/Kg	☼	10/13/22 12:17	10/17/22 13:01	1
Aroclor-1260	110		50		ug/Kg	☼	10/13/22 12:17	10/17/22 13:01	1
Aroclor-1262	ND		50		ug/Kg	☼	10/13/22 12:17	10/17/22 13:01	1
Aroclor-1268	ND		50		ug/Kg	☼	10/13/22 12:17	10/17/22 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*106*		*24 - 136*	*10/13/22 12:17*	*10/17/22 13:01*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*37 - 135*	*10/13/22 12:17*	*10/17/22 13:01*	*1*

Client: Roux Associates, Inc.
Job ID: 570-112940-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: Unit-2-LT-35D
Lab Sample ID: 570-112940-18
Date Collected: 10/12/22 11:48
Matrix: Solid
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1254	1000		100		ug/Kg	☼	10/13/22 12:17	10/17/22 13:20	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*105*		*24 - 136*	*10/13/22 12:17*	*10/17/22 13:20*	*2*
DCB Decachlorobiphenyl (Surr)	*89*		*37 - 135*	*10/13/22 12:17*	*10/17/22 13:20*	*2*

General Chemistry

Client Sample ID: Unit-2-SST-SO-W-SW-35W **Lab Sample ID: 570-112940-1**
Date Collected: 10/12/22 09:00 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.3		0.1		%			10/12/22 17:00	1

Client Sample ID: Unit-2-SST-SO-W-SW-35X **Lab Sample ID: 570-112940-2**
Date Collected: 10/12/22 09:08 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.1		0.1		%			10/12/22 17:00	1

Client Sample ID: Unit-2-SST-SO-W-SW-35Y **Lab Sample ID: 570-112940-3**
Date Collected: 10/12/22 09:16 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.4		0.1		%			10/12/22 17:00	1

Client Sample ID: Unit-2-SST-SO-W-SW-35Z **Lab Sample ID: 570-112940-4**
Date Collected: 10/12/22 09:22 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.5		0.1		%			10/12/22 17:00	1

Client Sample ID: Unit-2-LT-40B **Lab Sample ID: 570-112940-11**
Date Collected: 10/12/22 11:00 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.4		0.1		%			10/12/22 17:00	1

Client Sample ID: Unit-2-LT-40B-D **Lab Sample ID: 570-112940-12**
Date Collected: 10/12/22 11:00 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.9		0.1		%			10/12/22 17:00	1

Client Sample ID: Unit-2-LT-35D **Lab Sample ID: 570-112940-18**
Date Collected: 10/12/22 11:48 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.3		0.1		%			10/12/22 17:00	1

Client Sample ID: Unit-2-LT-30F **Lab Sample ID: 570-112940-22**
Date Collected: 10/12/22 12:14 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1		0.1		%			10/12/22 17:00	1

Surrogate Summary

Client: Roux Associates, Inc. Job ID: 570-112940-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (24-136)	DCB1 (37-135)
570-112940-1	Unit-2-SST-SO-W-SW-35W	78	76
570-112940-1 MS	Unit-2-SST-SO-W-SW-35W	80	79
570-112940-1 MSD	Unit-2-SST-SO-W-SW-35W	76	71
570-112940-2	Unit-2-SST-SO-W-SW-35X	53	41
570-112940-3	Unit-2-SST-SO-W-SW-35Y	65	53
570-112940-4	Unit-2-SST-SO-W-SW-35Z	72	57
570-112940-11	Unit-2-LT-40B	91	98
570-112940-12	Unit-2-LT-40B-D	84	94
570-112940-18	Unit-2-LT-35D	107	90
570-112940-18 - DL	Unit-2-LT-35D	105	89
570-112940-22	Unit-2-LT-30F	106	96
LCS 570-272288/2-A	Lab Control Sample	109	118
LCSD 570-272288/3-A	Lab Control Sample Dup	106	118
MB 570-272288/1-A	Method Blank	100	110

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-272288/1-A
Matrix: Solid
Analysis Batch: 273104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 272288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		10/13/22 12:17	10/17/22 08:55	1
Aroclor-1221	ND		50		ug/Kg		10/13/22 12:17	10/17/22 08:55	1
Aroclor-1232	ND		50		ug/Kg		10/13/22 12:17	10/17/22 08:55	1
Aroclor-1242	ND		50		ug/Kg		10/13/22 12:17	10/17/22 08:55	1
Aroclor-1248	ND		50		ug/Kg		10/13/22 12:17	10/17/22 08:55	1
Aroclor-1254	ND		50		ug/Kg		10/13/22 12:17	10/17/22 08:55	1
Aroclor-1260	ND		50		ug/Kg		10/13/22 12:17	10/17/22 08:55	1
Aroclor-1262	ND		50		ug/Kg		10/13/22 12:17	10/17/22 08:55	1
Aroclor-1268	ND		50		ug/Kg		10/13/22 12:17	10/17/22 08:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*100*		*24 - 136*	*10/13/22 12:17*	*10/17/22 08:55*	*1*
DCB Decachlorobiphenyl (Surr)	*110*		*37 - 135*	*10/13/22 12:17*	*10/17/22 08:55*	*1*

Lab Sample ID: LCS 570-272288/2-A
Matrix: Solid
Analysis Batch: 273104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 272288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	126.7		ug/Kg		127	46 - 131
Aroclor-1260	100	134.9		ug/Kg		135	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*109*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*118*		*37 - 135*

Lab Sample ID: LCSD 570-272288/3-A
Matrix: Solid
Analysis Batch: 273104

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 272288

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	107.1		ug/Kg		107	46 - 131	17	32
Aroclor-1260	100	135.3		ug/Kg		135	40 - 150	0	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*106*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*118*		*37 - 135*

Lab Sample ID: 570-112940-1 MS
Matrix: Solid
Analysis Batch: 273104

Client Sample ID: Unit-2-SST-SO-W-SW-35W
Prep Type: Total/NA
Prep Batch: 272288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND	F1	99.4	ND	F1	ug/Kg	☼	0	29 - 174
Aroclor-1260	670		99.4	674.5	4	ug/Kg	☼	2	20 - 180

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

Lab Sample ID: 570-112940-1 MS **Client Sample ID: Unit-2-SST-SO-W-SW-35W**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 273104 **Prep Batch: 272288**

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*80*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 135*

Lab Sample ID: 570-112940-1 MSD **Client Sample ID: Unit-2-SST-SO-W-SW-35W**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 273104 **Prep Batch: 272288**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND	F1	99.6	ND	F1	ug/Kg	☼	0	29 - 174	NC	40
Aroclor-1260	670		99.6	679.2	4	ug/Kg	☼	6	20 - 180	1	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*76*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*71*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-112940-1 DU **Client Sample ID: Unit-2-SST-SO-W-SW-35W**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 272086

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	0.3		0.3		%		6	10

GC Semi VOA

Prep Batch: 272288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112940-1	Unit-2-SST-SO-W-SW-35W	Total/NA	Solid	3540C	
570-112940-2	Unit-2-SST-SO-W-SW-35X	Total/NA	Solid	3540C	
570-112940-3	Unit-2-SST-SO-W-SW-35Y	Total/NA	Solid	3540C	
570-112940-4	Unit-2-SST-SO-W-SW-35Z	Total/NA	Solid	3540C	
570-112940-11	Unit-2-LT-40B	Total/NA	Solid	3540C	
570-112940-12	Unit-2-LT-40B-D	Total/NA	Solid	3540C	
570-112940-18	Unit-2-LT-35D	Total/NA	Solid	3540C	
570-112940-18 - DL	Unit-2-LT-35D	Total/NA	Solid	3540C	
570-112940-22	Unit-2-LT-30F	Total/NA	Solid	3540C	
MB 570-272288/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-272288/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-272288/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-112940-1 MS	Unit-2-SST-SO-W-SW-35W	Total/NA	Solid	3540C	
570-112940-1 MSD	Unit-2-SST-SO-W-SW-35W	Total/NA	Solid	3540C	

Analysis Batch: 273104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112940-1	Unit-2-SST-SO-W-SW-35W	Total/NA	Solid	8082	272288
570-112940-2	Unit-2-SST-SO-W-SW-35X	Total/NA	Solid	8082	272288
570-112940-3	Unit-2-SST-SO-W-SW-35Y	Total/NA	Solid	8082	272288
570-112940-4	Unit-2-SST-SO-W-SW-35Z	Total/NA	Solid	8082	272288
570-112940-11	Unit-2-LT-40B	Total/NA	Solid	8082	272288
570-112940-12	Unit-2-LT-40B-D	Total/NA	Solid	8082	272288
570-112940-18	Unit-2-LT-35D	Total/NA	Solid	8082	272288
570-112940-18 - DL	Unit-2-LT-35D	Total/NA	Solid	8082	272288
570-112940-22	Unit-2-LT-30F	Total/NA	Solid	8082	272288
MB 570-272288/1-A	Method Blank	Total/NA	Solid	8082	272288
LCS 570-272288/2-A	Lab Control Sample	Total/NA	Solid	8082	272288
LCSD 570-272288/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	272288
570-112940-1 MS	Unit-2-SST-SO-W-SW-35W	Total/NA	Solid	8082	272288
570-112940-1 MSD	Unit-2-SST-SO-W-SW-35W	Total/NA	Solid	8082	272288

General Chemistry

Analysis Batch: 272086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112940-1	Unit-2-SST-SO-W-SW-35W	Total/NA	Solid	Moisture	
570-112940-2	Unit-2-SST-SO-W-SW-35X	Total/NA	Solid	Moisture	
570-112940-3	Unit-2-SST-SO-W-SW-35Y	Total/NA	Solid	Moisture	
570-112940-4	Unit-2-SST-SO-W-SW-35Z	Total/NA	Solid	Moisture	
570-112940-11	Unit-2-LT-40B	Total/NA	Solid	Moisture	
570-112940-12	Unit-2-LT-40B-D	Total/NA	Solid	Moisture	
570-112940-18	Unit-2-LT-35D	Total/NA	Solid	Moisture	
570-112940-22	Unit-2-LT-30F	Total/NA	Solid	Moisture	
570-112940-1 DU	Unit-2-SST-SO-W-SW-35W	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-112940-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-SO-W-SW-35W
Lab Sample ID: 570-112940-1
Date Collected: 10/12/22 09:00 **Matrix: Solid**
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.12 g	20 mL	272288	10/13/22 12:17	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	273104	10/17/22 10:30	AJ2Q	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			272086	10/12/22 17:00	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35X
Lab Sample ID: 570-112940-2
Date Collected: 10/12/22 09:08 **Matrix: Solid**
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.16 g	20 mL	272288	10/13/22 12:17	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	273104	10/17/22 11:07	AJ2Q	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			272086	10/12/22 17:00	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35Y
Lab Sample ID: 570-112940-3
Date Collected: 10/12/22 09:16 **Matrix: Solid**
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.23 g	20 mL	272288	10/13/22 12:17	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	273104	10/17/22 11:26	AJ2Q	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			272086	10/12/22 17:00	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SO-W-SW-35Z
Lab Sample ID: 570-112940-4
Date Collected: 10/12/22 09:22 **Matrix: Solid**
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.21 g	20 mL	272288	10/13/22 12:17	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	273104	10/17/22 11:45	AJ2Q	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			272086	10/12/22 17:00	B4QL	EET CAL 4
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-112940-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-40B
Lab Sample ID: 570-112940-11
Date Collected: 10/12/22 11:00
Matrix: Solid
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.26 g	10 mL	272288	10/13/22 12:17	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	273104	10/17/22 12:04	AJ2Q	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			272086	10/12/22 17:00	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-40B-D
Lab Sample ID: 570-112940-12
Date Collected: 10/12/22 11:00
Matrix: Solid
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.35 g	10 mL	272288	10/13/22 12:17	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	273104	10/17/22 12:23	AJ2Q	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			272086	10/12/22 17:00	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-35D
Lab Sample ID: 570-112940-18
Date Collected: 10/12/22 11:48
Matrix: Solid
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.21 g	10 mL	272288	10/13/22 12:17	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	273104	10/17/22 12:42	AJ2Q	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Prep	3540C	DL		20.21 g	10 mL	272288	10/13/22 12:17	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	2	1 mL	1 mL	273104	10/17/22 13:20	AJ2Q	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			272086	10/12/22 17:00	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-30F
Lab Sample ID: 570-112940-22
Date Collected: 10/12/22 12:14
Matrix: Solid
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.19 g	10 mL	272288	10/13/22 12:17	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	273104	10/17/22 13:01	AJ2Q	EET CAL 4
	Instrument ID: GC64A									
Total/NA	Analysis	Moisture		1			272086	10/12/22 17:00	B4QL	EET CAL 4
	Instrument ID: MOI2									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-112940-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-112940-1	Unit-2-SST-SO-W-SW-35W	Solid	10/12/22 09:00	10/12/22 14:18
570-112940-2	Unit-2-SST-SO-W-SW-35X	Solid	10/12/22 09:08	10/12/22 14:18
570-112940-3	Unit-2-SST-SO-W-SW-35Y	Solid	10/12/22 09:16	10/12/22 14:18
570-112940-4	Unit-2-SST-SO-W-SW-35Z	Solid	10/12/22 09:22	10/12/22 14:18
570-112940-11	Unit-2-LT-40B	Solid	10/12/22 11:00	10/12/22 14:18
570-112940-12	Unit-2-LT-40B-D	Solid	10/12/22 11:00	10/12/22 14:18
570-112940-18	Unit-2-LT-35D	Solid	10/12/22 11:48	10/12/22 14:18
570-112940-22	Unit-2-LT-30F	Solid	10/12/22 12:14	10/12/22 14:18

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Loc: 570
112940

570-112940 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE 10-12-2022

PAGE 1 OF 3

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LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	PO NO: 57008787
CITY: Long Beach CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (951) 987 1124 / (818) 383-2312 E MAIL: mnelson@rouxinc com / dzaragoza@rouxinc com / mnishibayashi@rouxinc com	SAMPLER(S) (PRINT): Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID LOG CODE

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture	Hold		
1	Unit-2-SST-SO-W-SW-35W	10-12-22	0900	Soil	(1) 4oz. Jar														X				X			
2	Unit-2-SST-SO-W-SW-35X		0908																X				X			
3	Unit-2-SST-SO-W-SW-35Y		0916																X				X			
4	Unit-2-SST-SO-W-SW-35Z		0922																X				X			
	~~Unit-2-SST-SO-W-SW-40D IC~~		~~0933 IC~~																							
	~~Unit-2-SST-SO-W-SW-40D-D IC~~		~~0933 IC~~																							
5	Unit-2-SST-SO-W-SW-40D		0939																					X		
6	Unit-2-SST-SO-W-SW-40E		0952																					X		
7	Unit-2-SST-SO-W-SW-40F		1000																					X		
8	Unit-2-SST-SO-W-SW-40H		1006																					X		

Relinquished by (Signature) Ian Cross	Received by (Signature/Affiliation) FC	Date 10-12-2022	Time 14:19
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time

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10/17/2022

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WO # / LAB USE ONLY

DATE 10-12-22

PAGE 2 OF 3

LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	PO NO: 57008787
CITY: Long Beach CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (951) 987 1124 / (818) 383-2312 E MAIL: mnelson@rouxinc com / dzaragoza@rouxinc com / mnishibayashi@rouxinc com	SAMPLER(S) (PRINT): Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID LOG CODE

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6 C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 c	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Hold	Moisture			
9	Unit-2-SST-SO-W-SO-40 G	10-12-22	1014	Solid	4oz Jar														X				X				
10	Unit-2-SST-SO-W-SO-40 I	"	1024																X				X				
11	Unit-2-LT-40B		1100																X					X			
12	Unit-2-LT-40B-D		1100																X					X			
13	Unit-2-LT-45 A		1120																				X				
14	Unit-2-LT-45B		1127																				X				
15	Unit-2-LT-40D		1138																				X				
16	Unit-2-LT-40C		1143																				X				
17	Unit-2-LT-40C-D		1143																				X				
18	Unit-2-LT-35D	↓	1142	↓	↓														X					X			

Relinquished by (Signature) Ian Cross	Received by (Signature/Affiliation) EC	Date 10-12-2022	Time 14:19
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE 10-12-2022

PAGE 3 OF 3

LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
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TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312	E-MAIL: mnelson@rouxinc com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com
	SAMPLER(S) (PRINT): Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6 C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture	Hold		
19	Unit-2-LT-35E	10-12-22	1154	Solid	4oz Jar																			X		
20	Unit-2-LT-35F		1200																					X		
21	Unit-2-LT-30H		1207																					X		
22	Unit 2 LT-30F		1214																X				X			
23	Unit-2-LT-30I		1221																					X		

Relinquished by (Signature): Ian Cross	Received by (Signature/Affiliation): EC	Date: 10-12-2022	Time: 14:19
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time

06/02/14 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-112940-1

Login Number: 112940
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-112940-2
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
10/20/2022 3:03:33 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-112940-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-112940-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-2

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-112940-2

Comments
No additional comments.

Receipt
The samples were received on 10/12/2022 2:18 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7° C.

GC Semi VOA
Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-273299 and analytical batch 570-273870 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-2

Client Sample ID: Unit-2-LT-45B

Lab Sample ID: 570-112940-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	1100		110		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-40D

Lab Sample ID: 570-112940-15

No Detections.

This Detection Summary does not include radiochemical test results.

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-45B **Lab Sample ID: 570-112940-14**
Date Collected: 10/12/22 11:27 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	F1	110		ug/Kg	☼	10/17/22 15:27	10/19/22 16:41	1
Aroclor-1221	ND		110		ug/Kg	☼	10/17/22 15:27	10/19/22 16:41	1
Aroclor-1232	ND		110		ug/Kg	☼	10/17/22 15:27	10/19/22 16:41	1
Aroclor-1242	ND		110		ug/Kg	☼	10/17/22 15:27	10/19/22 16:41	1
Aroclor-1248	ND		110		ug/Kg	☼	10/17/22 15:27	10/19/22 16:41	1
Aroclor-1254	ND		110		ug/Kg	☼	10/17/22 15:27	10/19/22 16:41	1
Aroclor-1260	**1100**		110		ug/Kg	☼	10/17/22 15:27	10/19/22 16:41	1
Aroclor-1262	ND		110		ug/Kg	☼	10/17/22 15:27	10/19/22 16:41	1
Aroclor-1268	ND		110		ug/Kg	☼	10/17/22 15:27	10/19/22 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*73*		*24 - 136*	*10/17/22 15:27*	*10/19/22 16:41*	*1*
DCB Decachlorobiphenyl (Surr)	*50*		*37 - 135*	*10/17/22 15:27*	*10/19/22 16:41*	*1*

Client Sample ID: Unit-2-LT-40D **Lab Sample ID: 570-112940-15**
Date Collected: 10/12/22 11:38 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/17/22 15:27	10/19/22 17:03	1
Aroclor-1221	ND		51		ug/Kg	☼	10/17/22 15:27	10/19/22 17:03	1
Aroclor-1232	ND		51		ug/Kg	☼	10/17/22 15:27	10/19/22 17:03	1
Aroclor-1242	ND		51		ug/Kg	☼	10/17/22 15:27	10/19/22 17:03	1
Aroclor-1248	ND		51		ug/Kg	☼	10/17/22 15:27	10/19/22 17:03	1
Aroclor-1254	ND		51		ug/Kg	☼	10/17/22 15:27	10/19/22 17:03	1
Aroclor-1260	ND		51		ug/Kg	☼	10/17/22 15:27	10/19/22 17:03	1
Aroclor-1262	ND		51		ug/Kg	☼	10/17/22 15:27	10/19/22 17:03	1
Aroclor-1268	ND		51		ug/Kg	☼	10/17/22 15:27	10/19/22 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*92*		*24 - 136*	*10/17/22 15:27*	*10/19/22 17:03*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*37 - 135*	*10/17/22 15:27*	*10/19/22 17:03*	*1*

Client: Roux Associates, Inc.
Job ID: 570-112940-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

General Chemistry

Client Sample ID: Unit-2-LT-45B
Date Collected: 10/12/22 11:27
Date Received: 10/12/22 14:18
Lab Sample ID: 570-112940-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.7		0.1		%			10/17/22 16:36	1

Client Sample ID: Unit-2-LT-40D
Date Collected: 10/12/22 11:38
Date Received: 10/12/22 14:18
Lab Sample ID: 570-112940-15
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.5		0.1		%			10/17/22 16:36	1

Surrogate Summary

Client: Roux Associates, Inc. Job ID: 570-112940-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (24-136)	DCB1 (37-135)
570-112940-14	Unit-2-LT-45B	73	50
570-112940-14 MS	Unit-2-LT-45B	78	45
570-112940-14 MSD	Unit-2-LT-45B	82	79
570-112940-15	Unit-2-LT-40D	92	103
LCS 570-273299/2-A	Lab Control Sample	86	108
LCSD 570-273299/3-A	Lab Control Sample Dup	88	105
MB 570-273299/1-A	Method Blank	74	98

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-273299/1-A
Matrix: Solid
Analysis Batch: 273870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 273299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		10/17/22 15:27	10/19/22 15:37	1
Aroclor-1221	ND		50		ug/Kg		10/17/22 15:27	10/19/22 15:37	1
Aroclor-1232	ND		50		ug/Kg		10/17/22 15:27	10/19/22 15:37	1
Aroclor-1242	ND		50		ug/Kg		10/17/22 15:27	10/19/22 15:37	1
Aroclor-1248	ND		50		ug/Kg		10/17/22 15:27	10/19/22 15:37	1
Aroclor-1254	ND		50		ug/Kg		10/17/22 15:27	10/19/22 15:37	1
Aroclor-1260	ND		50		ug/Kg		10/17/22 15:27	10/19/22 15:37	1
Aroclor-1262	ND		50		ug/Kg		10/17/22 15:27	10/19/22 15:37	1
Aroclor-1268	ND		50		ug/Kg		10/17/22 15:27	10/19/22 15:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*74*		*24 - 136*	*10/17/22 15:27*	*10/19/22 15:37*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*37 - 135*	*10/17/22 15:27*	*10/19/22 15:37*	*1*

Lab Sample ID: LCS 570-273299/2-A
Matrix: Solid
Analysis Batch: 273870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 273299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	107.7		ug/Kg		108	46 - 131
Aroclor-1260	100	127.5		ug/Kg		128	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*86*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*108*		*37 - 135*

Lab Sample ID: LCSD 570-273299/3-A
Matrix: Solid
Analysis Batch: 273870

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 273299

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	108.5		ug/Kg		109	46 - 131	1	32
Aroclor-1260	100	124.9		ug/Kg		125	40 - 150	2	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*88*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*105*		*37 - 135*

Lab Sample ID: 570-112940-14 MS
Matrix: Solid
Analysis Batch: 273870

Client Sample ID: Unit-2-LT-45B
Prep Type: Total/NA
Prep Batch: 273299

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND	F1	111	327.6	F1	ug/Kg	☼	295	29 - 174
Aroclor-1260	1100		111	1926	4	ug/Kg	☼	764	20 - 180

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

Lab Sample ID: 570-112940-14 MS **Client Sample ID: Unit-2-LT-45B**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 273870 **Prep Batch: 273299**

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*78*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*45*		*37 - 135*

Lab Sample ID: 570-112940-14 MSD **Client Sample ID: Unit-2-LT-45B**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 273870 **Prep Batch: 273299**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND	F1	111	367.6	F1	ug/Kg	☼	331	29 - 174	11	40
Aroclor-1260	1100		111	1665	4	ug/Kg	☼	528	20 - 180	15	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*82*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-113397-A-49 DU **Client Sample ID: Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 273382

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	6.9			7.3		%				6	10

QC Association Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-2

GC Semi VOA

Prep Batch: 273299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112940-14	Unit-2-LT-45B	Total/NA	Solid	3540C	
570-112940-15	Unit-2-LT-40D	Total/NA	Solid	3540C	
MB 570-273299/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-273299/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-273299/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-112940-14 MS	Unit-2-LT-45B	Total/NA	Solid	3540C	
570-112940-14 MSD	Unit-2-LT-45B	Total/NA	Solid	3540C	

Analysis Batch: 273870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112940-14	Unit-2-LT-45B	Total/NA	Solid	8082	273299
570-112940-15	Unit-2-LT-40D	Total/NA	Solid	8082	273299
MB 570-273299/1-A	Method Blank	Total/NA	Solid	8082	273299
LCS 570-273299/2-A	Lab Control Sample	Total/NA	Solid	8082	273299
LCSD 570-273299/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	273299
570-112940-14 MS	Unit-2-LT-45B	Total/NA	Solid	8082	273299
570-112940-14 MSD	Unit-2-LT-45B	Total/NA	Solid	8082	273299

General Chemistry

Analysis Batch: 273382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112940-14	Unit-2-LT-45B	Total/NA	Solid	Moisture	
570-112940-15	Unit-2-LT-40D	Total/NA	Solid	Moisture	
570-113397-A-49 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-112940-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-45B
Lab Sample ID: 570-112940-14
Date Collected: 10/12/22 11:27
Matrix: Solid
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.18 g	20 mL	273299	10/17/22 15:27	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	273870	10/19/22 16:41	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			273382	10/17/22 16:36	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-40D
Lab Sample ID: 570-112940-15
Date Collected: 10/12/22 11:38
Matrix: Solid
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.13 g	10 mL	273299	10/17/22 15:27	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	273870	10/19/22 17:03	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			273382	10/17/22 16:36	B4QL	EET CAL 4
	Instrument ID: MOI2									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-112940-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-112940-14	Unit-2-LT-45B	Solid	10/12/22 11:27	10/12/22 14:18
570-112940-15	Unit-2-LT-40D	Solid	10/12/22 11:38	10/12/22 14:18

Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Monday, October 17, 2022 2:38 PM
To: Patel, Virendra
Cc: Matthew Nelson
Subject: RE: Eurofins Calscience report and EDD files from 570-112149-2 Etiwanda Commerce Center / 3653.0001L000
Attachments: Calscience-COC-20221012.pdf

EXTERNAL EMAIL*

Hi Virendra,

Thank you for sending over these results. Based on these results we'd like to have a couple of additional samples released for analysis. Of the samples collected/submitted on 10/12 last week (see attached COC), please have the laboratory analyze the following samples:

- Unit-2-LT-40D
- Unit-2-LT-45B

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Monday, October 17, 2022 11:11 AM
To: Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>
Subject: Eurofins Calscience report and EDD files from 570-112149-2 Etiwanda Commerce Center / 3653.0001L000

This message originated outside your organization. Please use caution!

Hello,

Attached please find the report and EDD files for job 570-112149-2; Etiwanda Commerce Center / 3653.0001L000

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [570-376830]
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

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Loc: 570
112940

570-112940 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE 10-12-2022

PAGE 1 OF 3

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For courier service / sample drop off information contact us26_sales@eurofinsus com or call us

LABORATORY CLIENT	Roux Associates Inc
ADDRESS	5150 Pacific Coast Hwy Suite 450
CITY	Long Beach CA 90804
STATE	CA
ZIP	90804
TEL	(818) 726-4265 / (951) 987 1124 / (818) 383-2312
E MAIL	mnelson@rouxinc com / dzaragoza@rouxinc com / mnishibayashi@rouxinc com
CLIENT PROJECT NAME / NUMBER	Etiwanda Commerce Center / 3653 0001L000
PO NO	57008787
PROJECT CONTACT	Matthew Nelson / Mark Nishibayashi
SAMPLER(S) (PRINT)	Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID | LOG CODE

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture	Hold		
1	Unit-2-SST-SO-W-SW-35W	10-12-22	0900	Soil	(1) 4oz. Jar														X				X			
2	Unit-2-SST-SO-W-SW-35X		0908																X				X			
3	Unit-2-SST-SO-W-SW-35Y		0916																X				X			
4	Unit-2-SST-SO-W-SW-35Z		0922																X				X			
	~~Unit-2-SST-SO-W-SW-40D~~ IC		~~0933~~ IC																							
	~~Unit-2-SST-SO-W-SW-40D-D~~ IC		~~0933~~ IC																							
5	Unit-2-SST-SO-W-SW-40D		0939																						X	
6	Unit-2-SST-SO-W-SW-40E		0952																						X	
7	Unit-2-SST-SO-W-SW-40F		1000																						X	
8	Unit-2-SST-SO-W-SW-40H	↓	1006	↓	↓																				X	

Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time
Ian Cross	FC	10-12-2022	14:19
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time

2.9/2.7 SCII

06/02/14 Revision

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WO # / LAB USE ONLY

DATE 10-12-22

PAGE 2 OF 3

LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	PO NO: 57008787
CITY: Long Beach CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (951) 987 1124 / (818) 383-2312 E MAIL: mnelson@rouxinc com / dzaragoza@rouxinc com / mnishibayashi@rouxinc com	SAMPLER(S) (PRINT): Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID LOG CODE

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6 C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 c	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Hold	Moisture			
9	Unit-2-SST-SO-W-SO-40 G	10-12-22	1014	Solid	4oz Jar																		X				
10	Unit-2-SST-SO-W-SO-40 I	"	1024																				X				
11	Unit-2-LT-40B		1100																X					X			
12	Unit-2-LT-40B-D		1100																X					X			
13	Unit-2-LT-45 A		1120																				X				
14	Unit-2-LT-45B		1127																				X				
15	Unit-2-LT-40D		1138																				X				
16	Unit-2-LT-40C		1143																				X				
17	Unit-2-LT-40C-D		1143																				X				
18	Unit-2-LT-35D	↓	1142	↓	↓														X					X			

Relinquished by (Signature) Ian Cross	Received by (Signature/Affiliation) EC	Date 10-12-2022	Time 14:19
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time

06/02/14 Revision

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE 10-12-2022

PAGE 3 OF 3

LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	P O NO: 57008787
CITY: Long Beach STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312	E-MAIL: mnelson@rouxinc com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com
	SAMPLER(S) (PRINT): Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6 C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture	Hold		
19	Unit-2-LT-35E	10-12-22	1154	Solid	4oz Jar																			X		
20	Unit-2-LT-35F		1200																					X		
21	Unit-2-LT-30H		1207																					X		
22	Unit 2 LT-30F		1214																X				X			
23	Unit-2-LT-30I		1221																					X		

Relinquished by (Signature): Ian Cross	Received by (Signature/Affiliation): EC	Date: 10-12-2022	Time: 14:19
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time

06/02/14 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-112940-2

Login Number: 112940
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-112940-3
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
10/23/2022 4:38:01 PM

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-112940-3
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-112940-3
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-3

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-112940-3

Comments
No additional comments.

Receipt
The samples were received on 10/12/2022 2:18 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7° C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

Organic Prep
Method 3540C: Due to the matrix, the following samples could not be concentrated to the final method required volume: Unit-2-SST-SO-W-SW-40H (570-112940-8), Unit-2-SST-SO-W-SW-40G (570-112940-9) and Unit-2-SST-SO-W-SW-40I (570-112940-10). The reporting limits (RLs) are elevated proportionately. The final volume was changed from 10mL to 20mL.
8082

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-3

Client Sample ID: Unit-2-SST-SO-W-SW-40D — Lab Sample ID: 570-112940-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	300		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-40E — Lab Sample ID: 570-112940-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	260		50		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-40H — Lab Sample ID: 570-112940-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	1100		100		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-40G — Lab Sample ID: 570-112940-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	420		100		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SO-W-SW-40I — Lab Sample ID: 570-112940-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	910		99		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-40C — Lab Sample ID: 570-112940-16

No Detections.

Client Sample ID: Unit-2-LT-40C-D — Lab Sample ID: 570-112940-17

No Detections.

Client Sample ID: Unit-2-LT-35E — Lab Sample ID: 570-112940-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254 - DL	3500		520		ug/Kg	10	☼	8082	Total/NA
Aroclor-1260 - DL	1400		520		ug/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-SST-SO-W-SW-40D — **Lab Sample ID: 570-112940-5**
Date Collected: 10/12/22 09:39 — **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 13:19	1
Aroclor-1221	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 13:19	1
Aroclor-1232	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 13:19	1
Aroclor-1242	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 13:19	1
Aroclor-1248	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 13:19	1
Aroclor-1254	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 13:19	1
Aroclor-1260	**300**		50		ug/Kg	☼	10/18/22 11:39	10/20/22 13:19	1
Aroclor-1262	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 13:19	1
Aroclor-1268	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*79*		*24 - 136*	*10/18/22 11:39*	*10/20/22 13:19*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 135*	*10/18/22 11:39*	*10/20/22 13:19*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-40E — **Lab Sample ID: 570-112940-6**
Date Collected: 10/12/22 09:52 — **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 14:38	1
Aroclor-1221	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 14:38	1
Aroclor-1232	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 14:38	1
Aroclor-1242	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 14:38	1
Aroclor-1248	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 14:38	1
Aroclor-1254	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 14:38	1
Aroclor-1260	**260**		50		ug/Kg	☼	10/18/22 11:39	10/20/22 14:38	1
Aroclor-1262	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 14:38	1
Aroclor-1268	ND		50		ug/Kg	☼	10/18/22 11:39	10/20/22 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*78*		*24 - 136*	*10/18/22 11:39*	*10/20/22 14:38*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 135*	*10/18/22 11:39*	*10/20/22 14:38*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-40H — **Lab Sample ID: 570-112940-8**
Date Collected: 10/12/22 10:06 — **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 14:59	1
Aroclor-1221	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 14:59	1
Aroclor-1232	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 14:59	1
Aroclor-1242	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 14:59	1
Aroclor-1248	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 14:59	1
Aroclor-1254	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 14:59	1
Aroclor-1260	**1100**		100		ug/Kg	☼	10/18/22 11:39	10/20/22 14:59	1
Aroclor-1262	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 14:59	1
Aroclor-1268	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*82*		*24 - 136*	*10/18/22 11:39*	*10/20/22 14:59*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*37 - 135*	*10/18/22 11:39*	*10/20/22 14:59*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-SST-SO-W-SW-40G — **Lab Sample ID: 570-112940-9**
Date Collected: 10/12/22 10:14 — **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 15:21	1
Aroclor-1221	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 15:21	1
Aroclor-1232	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 15:21	1
Aroclor-1242	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 15:21	1
Aroclor-1248	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 15:21	1
Aroclor-1254	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 15:21	1
Aroclor-1260	**420**		100		ug/Kg	☼	10/18/22 11:39	10/20/22 15:21	1
Aroclor-1262	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 15:21	1
Aroclor-1268	ND		100		ug/Kg	☼	10/18/22 11:39	10/20/22 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*97*		*24 - 136*	*10/18/22 11:39*	*10/20/22 15:21*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*37 - 135*	*10/18/22 11:39*	*10/20/22 15:21*	*1*

Client Sample ID: Unit-2-SST-SO-W-SW-40I — **Lab Sample ID: 570-112940-10**
Date Collected: 10/12/22 10:24 — **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		99		ug/Kg	☼	10/18/22 11:39	10/20/22 15:42	1
Aroclor-1221	ND		99		ug/Kg	☼	10/18/22 11:39	10/20/22 15:42	1
Aroclor-1232	ND		99		ug/Kg	☼	10/18/22 11:39	10/20/22 15:42	1
Aroclor-1242	ND		99		ug/Kg	☼	10/18/22 11:39	10/20/22 15:42	1
Aroclor-1248	ND		99		ug/Kg	☼	10/18/22 11:39	10/20/22 15:42	1
Aroclor-1254	ND		99		ug/Kg	☼	10/18/22 11:39	10/20/22 15:42	1
Aroclor-1260	**910**		99		ug/Kg	☼	10/18/22 11:39	10/20/22 15:42	1
Aroclor-1262	ND		99		ug/Kg	☼	10/18/22 11:39	10/20/22 15:42	1
Aroclor-1268	ND		99		ug/Kg	☼	10/18/22 11:39	10/20/22 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*72*		*24 - 136*	*10/18/22 11:39*	*10/20/22 15:42*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*37 - 135*	*10/18/22 11:39*	*10/20/22 15:42*	*1*

Client Sample ID: Unit-2-LT-40C — **Lab Sample ID: 570-112940-16**
Date Collected: 10/12/22 11:43 — **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:03	1
Aroclor-1221	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:03	1
Aroclor-1232	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:03	1
Aroclor-1242	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:03	1
Aroclor-1248	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:03	1
Aroclor-1254	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:03	1
Aroclor-1260	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:03	1
Aroclor-1262	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:03	1
Aroclor-1268	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*107*		*24 - 136*	*10/18/22 11:39*	*10/20/22 16:03*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*37 - 135*	*10/18/22 11:39*	*10/20/22 16:03*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-40C-D **Lab Sample ID: 570-112940-17**
Date Collected: 10/12/22 11:43 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:25	1
Aroclor-1221	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:25	1
Aroclor-1232	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:25	1
Aroclor-1242	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:25	1
Aroclor-1248	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:25	1
Aroclor-1254	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:25	1
Aroclor-1260	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:25	1
Aroclor-1262	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:25	1
Aroclor-1268	ND		55		ug/Kg	☼	10/18/22 11:39	10/20/22 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*103*		*24 - 136*	*10/18/22 11:39*	*10/20/22 16:25*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*37 - 135*	*10/18/22 11:39*	*10/20/22 16:25*	*1*

Client Sample ID: Unit-2-LT-35E **Lab Sample ID: 570-112940-19**
Date Collected: 10/12/22 11:54 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	10/18/22 11:39	10/20/22 16:46	1
Aroclor-1221	ND		52		ug/Kg	☼	10/18/22 11:39	10/20/22 16:46	1
Aroclor-1232	ND		52		ug/Kg	☼	10/18/22 11:39	10/20/22 16:46	1
Aroclor-1242	ND		52		ug/Kg	☼	10/18/22 11:39	10/20/22 16:46	1
Aroclor-1248	ND		52		ug/Kg	☼	10/18/22 11:39	10/20/22 16:46	1
Aroclor-1262	ND		52		ug/Kg	☼	10/18/22 11:39	10/20/22 16:46	1
Aroclor-1268	ND		52		ug/Kg	☼	10/18/22 11:39	10/20/22 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*92*		*24 - 136*	*10/18/22 11:39*	*10/20/22 16:46*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 135*	*10/18/22 11:39*	*10/20/22 16:46*	*1*

Client: Roux Associates, Inc.
Job ID: 570-112940-3
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: Unit-2-LT-35E
Date Collected: 10/12/22 11:54
Date Received: 10/12/22 14:18

Lab Sample ID: 570-112940-19
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1254	3500		520		ug/Kg	☼	10/18/22 11:39	10/21/22 08:26	10
Aroclor-1260	1400		520		ug/Kg	☼	10/18/22 11:39	10/21/22 08:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*93*		*24 - 136*	*10/18/22 11:39*	*10/21/22 08:26*	*10*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 135*	*10/18/22 11:39*	*10/21/22 08:26*	*10*

General Chemistry

Client Sample ID: Unit-2-SST-SO-W-SW-40D **Lab Sample ID: 570-112940-5**
Date Collected: 10/12/22 09:39 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.3		0.1		%			10/18/22 12:37	1

Client Sample ID: Unit-2-SST-SO-W-SW-40E **Lab Sample ID: 570-112940-6**
Date Collected: 10/12/22 09:52 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.3		0.1		%			10/18/22 12:37	1

Client Sample ID: Unit-2-SST-SO-W-SW-40H **Lab Sample ID: 570-112940-8**
Date Collected: 10/12/22 10:06 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.7		0.1		%			10/18/22 12:37	1

Client Sample ID: Unit-2-SST-SO-W-SW-40G **Lab Sample ID: 570-112940-9**
Date Collected: 10/12/22 10:14 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.4		0.1		%			10/18/22 12:37	1

Client Sample ID: Unit-2-SST-SO-W-SW-40I **Lab Sample ID: 570-112940-10**
Date Collected: 10/12/22 10:24 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.3		0.1		%			10/18/22 12:37	1

Client Sample ID: Unit-2-LT-40C **Lab Sample ID: 570-112940-16**
Date Collected: 10/12/22 11:43 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.4		0.1		%			10/18/22 12:37	1

Client Sample ID: Unit-2-LT-40C-D **Lab Sample ID: 570-112940-17**
Date Collected: 10/12/22 11:43 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.2		0.1		%			10/18/22 12:37	1

Client Sample ID: Unit-2-LT-35E **Lab Sample ID: 570-112940-19**
Date Collected: 10/12/22 11:54 **Matrix: Solid**
Date Received: 10/12/22 14:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.1		0.1		%			10/18/22 12:37	1

Surrogate Summary

Client: Roux Associates, Inc. Job ID: 570-112940-3
Project/Site: Etiwanda Commerce Center / 3653.0001L000

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (24-136)	DCB1 (37-135)
570-112940-5	Unit-2-SST-SO-W-SW-40D	79	95
570-112940-6	Unit-2-SST-SO-W-SW-40E	78	79
570-112940-8	Unit-2-SST-SO-W-SW-40H	82	78
570-112940-9	Unit-2-SST-SO-W-SW-40G	97	67
570-112940-10	Unit-2-SST-SO-W-SW-40I	72	80
570-112940-16	Unit-2-LT-40C	107	83
570-112940-17	Unit-2-LT-40C-D	103	90
570-112940-19	Unit-2-LT-35E	92	95
570-112940-19 - DL	Unit-2-LT-35E	93	93

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

Client: Roux Associates, Inc.
Job ID: 570-112940-3
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method: Moisture - Percent Moisture

Lab Sample ID: 570-112940-9 DU
Client Sample ID: Unit-2-SST-SO-W-SW-40G
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 273662

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	0.4			0.4		%				2	10

QC Association Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-3

GC Semi VOA

Prep Batch: 273299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112940-5	Unit-2-SST-SO-W-SW-40D	Total/NA	Solid	3540C	
570-112940-6	Unit-2-SST-SO-W-SW-40E	Total/NA	Solid	3540C	
570-112940-8	Unit-2-SST-SO-W-SW-40H	Total/NA	Solid	3540C	
570-112940-9	Unit-2-SST-SO-W-SW-40G	Total/NA	Solid	3540C	
570-112940-10	Unit-2-SST-SO-W-SW-40I	Total/NA	Solid	3540C	
570-112940-16	Unit-2-LT-40C	Total/NA	Solid	3540C	
570-112940-17	Unit-2-LT-40C-D	Total/NA	Solid	3540C	
570-112940-19 - DL	Unit-2-LT-35E	Total/NA	Solid	3540C	
570-112940-19	Unit-2-LT-35E	Total/NA	Solid	3540C	

Analysis Batch: 274259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112940-5	Unit-2-SST-SO-W-SW-40D	Total/NA	Solid	8082	273299
570-112940-6	Unit-2-SST-SO-W-SW-40E	Total/NA	Solid	8082	273299
570-112940-8	Unit-2-SST-SO-W-SW-40H	Total/NA	Solid	8082	273299
570-112940-9	Unit-2-SST-SO-W-SW-40G	Total/NA	Solid	8082	273299
570-112940-10	Unit-2-SST-SO-W-SW-40I	Total/NA	Solid	8082	273299
570-112940-16	Unit-2-LT-40C	Total/NA	Solid	8082	273299
570-112940-17	Unit-2-LT-40C-D	Total/NA	Solid	8082	273299
570-112940-19	Unit-2-LT-35E	Total/NA	Solid	8082	273299
570-112940-19 - DL	Unit-2-LT-35E	Total/NA	Solid	8082	273299

General Chemistry

Analysis Batch: 273662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112940-5	Unit-2-SST-SO-W-SW-40D	Total/NA	Solid	Moisture	
570-112940-6	Unit-2-SST-SO-W-SW-40E	Total/NA	Solid	Moisture	
570-112940-8	Unit-2-SST-SO-W-SW-40H	Total/NA	Solid	Moisture	
570-112940-9	Unit-2-SST-SO-W-SW-40G	Total/NA	Solid	Moisture	
570-112940-10	Unit-2-SST-SO-W-SW-40I	Total/NA	Solid	Moisture	
570-112940-16	Unit-2-LT-40C	Total/NA	Solid	Moisture	
570-112940-17	Unit-2-LT-40C-D	Total/NA	Solid	Moisture	
570-112940-19	Unit-2-LT-35E	Total/NA	Solid	Moisture	
570-112940-9 DU	Unit-2-SST-SO-W-SW-40G	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-112940-3
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-SO-W-SW-40D — Lab Sample ID: 570-112940-5

Date Collected: 10/12/22 09:39 **Matrix: Solid**
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.13 g	10 mL	273299	10/18/22 11:39	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	274259	10/20/22 13:19	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			273662	10/18/22 12:37	B4QL	EET CAL 4
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-40E — Lab Sample ID: 570-112940-6

Date Collected: 10/12/22 09:52 **Matrix: Solid**
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.11 g	10 mL	273299	10/18/22 11:39	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	274259	10/20/22 14:38	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			273662	10/18/22 12:37	B4QL	EET CAL 4
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-40H — Lab Sample ID: 570-112940-8

Date Collected: 10/12/22 10:06 **Matrix: Solid**
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.18 g	20 mL	273299	10/18/22 11:39	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	274259	10/20/22 14:59	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			273662	10/18/22 12:37	B4QL	EET CAL 4
	Instrument ID: MOI4									

Client Sample ID: Unit-2-SST-SO-W-SW-40G — Lab Sample ID: 570-112940-9

Date Collected: 10/12/22 10:14 **Matrix: Solid**
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.04 g	20 mL	273299	10/18/22 11:39	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	274259	10/20/22 15:21	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			273662	10/18/22 12:37	B4QL	EET CAL 4
	Instrument ID: MOI4									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-112940-3
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-SST-SO-W-SW-40I
Lab Sample ID: 570-112940-10
Date Collected: 10/12/22 10:24
Matrix: Solid
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.24 g	20 mL	273299	10/18/22 11:39	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	274259	10/20/22 15:42	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			273662	10/18/22 12:37	B4QL	EET CAL 4
	Instrument ID: MOI4									

Client Sample ID: Unit-2-LT-40C
Lab Sample ID: 570-112940-16
Date Collected: 10/12/22 11:43
Matrix: Solid
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.23 g	10 mL	273299	10/18/22 11:39	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	274259	10/20/22 16:03	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			273662	10/18/22 12:37	B4QL	EET CAL 4
	Instrument ID: MOI4									

Client Sample ID: Unit-2-LT-40C-D
Lab Sample ID: 570-112940-17
Date Collected: 10/12/22 11:43
Matrix: Solid
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.08 g	10 mL	273299	10/18/22 11:39	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	274259	10/20/22 16:25	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			273662	10/18/22 12:37	B4QL	EET CAL 4
	Instrument ID: MOI4									

Client Sample ID: Unit-2-LT-35E
Lab Sample ID: 570-112940-19
Date Collected: 10/12/22 11:54
Matrix: Solid
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.34 g	10 mL	273299	10/18/22 11:39	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	274259	10/20/22 16:46	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		20.34 g	10 mL	273299	10/18/22 11:39	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	10	1 mL	1 mL	274259	10/21/22 08:26	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			273662	10/18/22 12:37	B4QL	EET CAL 4
	Instrument ID: MOI4									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc.
Job ID: 570-112940-3
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-3

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-112940-5	Unit-2-SST-SO-W-SW-40D	Solid	10/12/22 09:39	10/12/22 14:18
570-112940-6	Unit-2-SST-SO-W-SW-40E	Solid	10/12/22 09:52	10/12/22 14:18
570-112940-8	Unit-2-SST-SO-W-SW-40H	Solid	10/12/22 10:06	10/12/22 14:18
570-112940-9	Unit-2-SST-SO-W-SW-40G	Solid	10/12/22 10:14	10/12/22 14:18
570-112940-10	Unit-2-SST-SO-W-SW-40I	Solid	10/12/22 10:24	10/12/22 14:18
570-112940-16	Unit-2-LT-40C	Solid	10/12/22 11:43	10/12/22 14:18
570-112940-17	Unit-2-LT-40C-D	Solid	10/12/22 11:43	10/12/22 14:18
570-112940-19	Unit-2-LT-35E	Solid	10/12/22 11:54	10/12/22 14:18

Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Monday, October 17, 2022 5:26 PM
To: Patel, Virendra
Cc: Matthew Nelson
Subject: RE: Eurofins Calscience report and EDD files from 570-112940-1 Etiwanda Commerce Center / 3653.0001L000
Attachments: SampleLoginAck_570-112940-1 [Std_Tal_Login_Ack].pdf; COC 570-112940 (202210121523).pdf

EXTERNAL EMAIL*

Thanks, Virendra.

Will you please direct the lab to release and analyze the following samples:

- Unit-2-SST-SO-W-SW-40D
- Unit-2-SST-SO-W-SW-40E
- Unit-2-SST-SO-W-SW-40G
- Unit-2-SST-SO-W-SW-40H
- Unit-2-SST-SO-W-SW-40I
- Unit-2-LT-35E
- Unit-2-LT-40C
- Unit-2-LT-40C-D

Please let us know if you have any questions.

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Monday, October 17, 2022 4:41 PM
To: Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>
Subject: Eurofins Calscience report and EDD files from 570-112940-1 Etiwanda Commerce Center / 3653.0001L000

This message originated outside your organization. Please use caution!

Hello,

Attached please find the report and EDD files for job 570-112940-1; Etiwanda Commerce Center / 3653.0001L000

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [570-377121]
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

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Loc: 570
112940

570-112940 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE 10-12-2022

PAGE 1 OF 3

7440 Lincoln Way Garden Grove CA 92841 1427 • (714) 895-5494
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LABORATORY CLIENT	Roux Associates Inc
ADDRESS	5150 Pacific Coast Hwy Suite 450
CITY / STATE / ZIP	Long Beach CA 90804 / CA / 90804
TEL	(818) 726-4265 / (951) 987 1124 / (818) 383-2312
E MAIL	mnelson@rouxinc com / dzaragoza@rouxinc com / mnishibayashi@rouxinc com
CLIENT PROJECT NAME / NUMBER	Etiwanda Commerce Center / 3653 0001L000
PO NO	57008787
PROJECT CONTACT	Matthew Nelson / Mark Nishibayashi
SAMPLER(S) (PRINT)	Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID | LOG CODE

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture	Hold		
1	Unit-2-SST-SO-W-SW-35W	10-12-22	0900	Soil	(1) 4oz. Jar														X				X			
2	Unit-2-SST-SO-W-SW-35X		0908																X				X			
3	Unit-2-SST-SO-W-SW-35Y		0916																X				X			
4	Unit-2-SST-SO-W-SW-35Z		0922																X				X			
	~~Unit-2-SST-SO-W-SW-40D IC~~		~~0933 IC~~																							
	~~Unit-2-SST-SO-W-SW-40D-D IC~~		~~0933 IC~~																							
5	Unit-2-SST-SO-W-SW-40D		0939																					X		
6	Unit-2-SST-SO-W-SW-40E		0952																					X		
7	Unit-2-SST-SO-W-SW-40F		1000																					X		
8	Unit-2-SST-SO-W-SW-40H		1006																					X		

Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time
Ian Cross	FC	10-12-2022	14:19
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time

2.9/2.7 SCII

06/02/14 Revision

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WO # / LAB USE ONLY

DATE 10-12-22

PAGE 2 OF 3

LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	PO NO: 57008787
CITY: Long Beach CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (951) 987 1124 / (818) 383-2312 E MAIL: mnelson@rouxinc com / dzaragoza@rouxinc com / mnishibayashi@rouxinc com	SAMPLER(S) (PRINT): Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID LOG CODE

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6 C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 c	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Hold	Moisture			
9	Unit-2-SST-SO-W-SO-40 G	10-12-22	1014	Solid	4oz Jar														X				X				
10	Unit-2-SST-SO-W-SO-40 I	"	1024	"	"														X				X				
11	Unit-2-LT-40B		1100																X					X			
12	Unit-2-LT-40B-D		1100																X					X			
13	Unit-2-LT-45 A		1120																				X				
14	Unit-2-LT-45B		1127																				X				
15	Unit-2-LT-40D		1138																				X				
16	Unit-2-LT-40C		1143																				X				
17	Unit-2-LT-40C-D		1143																				X				
18	Unit-2-LT-35D	↓	1142	↓	↓														X					X			

Relinquished by (Signature) Ian Cross	Received by (Signature/Affiliation) EC	Date 10-12-2022	Time 14:19
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time

06/02/14 Revision

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE 10-12-2022

PAGE 3 OF 3

LABORATORY CLIENT: Roux Associates Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy Suite 450	P O NO: 57008787
CITY: Long Beach STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (951) 987-1124 / (818) 383-2312	E-MAIL: mnelson@rouxinc com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com
	SAMPLER(S) (PRINT): Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6 C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture	Hold		
19	Unit-2-LT-35E	10-12-22	1154	Solid	4oz Jar																			X		
20	Unit-2-LT-35F		1200																					X		
21	Unit-2-LT-30H		1207																					X		
22	Unit 2 LT-30F		1214																X				X			
23	Unit-2-LT-30I		1221																					X		

Relinquished by (Signature): Ian Cross	Received by (Signature/Affiliation): EC	Date: 10-12-2022	Time: 14:19
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time
Relinquished by (Signature)	Received by (Signature/Affiliation)	Date	Time

06/02/14 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-112940-3

Login Number: 112940
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-112940-4
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
10/27/2022 12:30:25 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-112940-4
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

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

Job ID: 570-112940-4

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-112940-4

Comments
No additional comments.

Receipt
The samples were received on 10/12/2022 2:18 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7° C.

GC Semi VOA
Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-275274 and analytical batch 570-275875 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry
Method Moisture: The following sample was login outside of holding time: Unit-2-LT-45A (570-112940-13).

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

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

Detection Summary

Client: Roux Associates, Inc.
Job ID: 570-112940-4
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-45A
Lab Sample ID: 570-112940-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	120		51		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	140		51		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Roux Associates, Inc.
Job ID: 570-112940-4
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-45A
Date Collected: 10/12/22 11:20
Date Received: 10/12/22 14:18

Lab Sample ID: 570-112940-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/25/22 11:00	10/26/22 15:10	1
Aroclor-1221	ND		51		ug/Kg	☼	10/25/22 11:00	10/26/22 15:10	1
Aroclor-1232	ND		51		ug/Kg	☼	10/25/22 11:00	10/26/22 15:10	1
Aroclor-1242	ND		51		ug/Kg	☼	10/25/22 11:00	10/26/22 15:10	1
Aroclor-1248	ND		51		ug/Kg	☼	10/25/22 11:00	10/26/22 15:10	1
Aroclor-1254	**120**		51		ug/Kg	☼	10/25/22 11:00	10/26/22 15:10	1
Aroclor-1260	**140**		51		ug/Kg	☼	10/25/22 11:00	10/26/22 15:10	1
Aroclor-1262	ND		51		ug/Kg	☼	10/25/22 11:00	10/26/22 15:10	1
Aroclor-1268	ND		51		ug/Kg	☼	10/25/22 11:00	10/26/22 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*76*		*24 - 136*	*10/25/22 11:00*	*10/26/22 15:10*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*37 - 135*	*10/25/22 11:00*	*10/26/22 15:10*	*1*

Client: Roux Associates, Inc.
Job ID: 570-112940-4
Project/Site: Etiwanda Commerce Center / 3653.0001L000

General Chemistry

Client Sample ID: Unit-2-LT-45A
Date Collected: 10/12/22 11:20
Date Received: 10/12/22 14:18

Lab Sample ID: 570-112940-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.7	H	0.1		%			10/24/22 11:56	1

Surrogate Summary

Client: Roux Associates, Inc. Job ID: 570-112940-4
Project/Site: Etiwanda Commerce Center / 3653.0001L000

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (24-136)	DCB1 (37-135)
570-112940-13	Unit-2-LT-45A	76	85
570-114304-A-6-A MS	Matrix Spike	106	81
570-114304-A-6-B MSD	Matrix Spike Duplicate	79	59
LCS 570-275274/2-A	Lab Control Sample	79	75
LCSD 570-275274/3-A	Lab Control Sample Dup	90	95
MB 570-275274/1-A	Method Blank	90	95

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-275274/1-A

Matrix: Solid
Analysis Batch: 275875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1221	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1232	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1242	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1248	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1254	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1260	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1262	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1268	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*90*		*24 - 136*	*10/24/22 12:08*	*10/26/22 12:14*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 135*	*10/24/22 12:08*	*10/26/22 12:14*	*1*

Lab Sample ID: LCS 570-275274/2-A

Matrix: Solid
Analysis Batch: 275875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	80.82		ug/Kg		81	46 - 131
Aroclor-1260	100	86.43		ug/Kg		86	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*79*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*75*		*37 - 135*

Lab Sample ID: LCSD 570-275274/3-A

Matrix: Solid
Analysis Batch: 275875

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 275274

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	94.24		ug/Kg		94	46 - 131	15	32
Aroclor-1260	100	118.2		ug/Kg		118	40 - 150	31	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*90*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 135*

Lab Sample ID: 570-114304-A-6-A MS

Matrix: Solid
Analysis Batch: 275875

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 275274

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND	F1	101	124.2		ug/Kg	☼	123	29 - 174
Aroclor-1260	320		101	499.9		ug/Kg	☼	175	20 - 180

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

Lab Sample ID: 570-114304-A-6-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 275875 — **Prep Batch: 275274**

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*106*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 135*

Lab Sample ID: 570-114304-A-6-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 275875 — **Prep Batch: 275274**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND	F1	101	ND	F1	ug/Kg	☼	0	29 - 174	NC	40
Aroclor-1260	320		101	432.0		ug/Kg	☼	108	20 - 180	15	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*79*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*59*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-112940-13 DU — **Client Sample ID: Unit-2-LT-45A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 275313

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	2.7	H	2.7		%		1	10

QC Association Summary

Client: Roux Associates, Inc.
Job ID: 570-112940-4
Project/Site: Etiwanda Commerce Center / 3653.0001L000

GC Semi VOA

Prep Batch: 275274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112940-13	Unit-2-LT-45A	Total/NA	Solid	3540C	
MB 570-275274/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-275274/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-275274/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-114304-A-6-A MS	Matrix Spike	Total/NA	Solid	3540C	
570-114304-A-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3540C	

Analysis Batch: 275875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112940-13	Unit-2-LT-45A	Total/NA	Solid	8082	275274
MB 570-275274/1-A	Method Blank	Total/NA	Solid	8082	275274
LCS 570-275274/2-A	Lab Control Sample	Total/NA	Solid	8082	275274
LCSD 570-275274/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	275274
570-114304-A-6-A MS	Matrix Spike	Total/NA	Solid	8082	275274
570-114304-A-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	275274

General Chemistry

Analysis Batch: 275313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-112940-13	Unit-2-LT-45A	Total/NA	Solid	Moisture	
570-112940-13 DU	Unit-2-LT-45A	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-112940-4
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-45A
Lab Sample ID: 570-112940-13
Date Collected: 10/12/22 11:20
Matrix: Solid
Date Received: 10/12/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.17 g	10 mL	275274	10/25/22 11:00	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275875	10/26/22 15:10	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275313	10/24/22 11:56	B4QL	EET CAL 4
	Instrument ID: MOI3									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-112940-4
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-4

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-112940-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-112940-13	Unit-2-LT-45A	Solid	10/12/22 11:20	10/12/22 14:18

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-112940-4

Login Number: 112940
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-114304-1
Client Project/Site: Etiwanda / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
10/27/2022 7:40:08 AM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

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

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

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Definitions/Glossary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

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

Case Narrative

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-1

Job ID: 570-114304-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-114304-1

Comments
No additional comments.

Receipt
The samples were received on 10/21/2022 3:03 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-1

Client Sample ID: SS-Soil-1 — Lab Sample ID: 570-114304-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	850		57		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: SS-Soil-2 — Lab Sample ID: 570-114304-9

No Detections.

Client Sample ID: SS-Soil-3 — Lab Sample ID: 570-114304-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	68		55		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-50B — Lab Sample ID: 570-114304-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	880		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-45D — Lab Sample ID: 570-114304-16

No Detections.

Client Sample ID: Pad-A-1 — Lab Sample ID: 570-114304-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	2900		260		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Pad-A-2 — Lab Sample ID: 570-114304-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1300		260		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Pad-B-1 — Lab Sample ID: 570-114304-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	300		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Pad-C-1 — Lab Sample ID: 570-114304-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	2100		260		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Pad-A-2-D — Lab Sample ID: 570-114304-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1200		260		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Pad-D-1 — Lab Sample ID: 570-114304-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	550		52		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Pad-E-1 — Lab Sample ID: 570-114304-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1900		260		ug/Kg	5	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-1

Client Sample ID: Pad-F-1 — Lab Sample ID: 570-114304-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	94		52		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Pad-F-2 — Lab Sample ID: 570-114304-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	470		51		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Pad-F-2-D — Lab Sample ID: 570-114304-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	520		51		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SS-Soil-1
Date Collected: 10/20/22 13:43
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		57		ug/Kg	☼	10/21/22 17:47	10/25/22 16:19	1
Aroclor-1221	ND		57		ug/Kg	☼	10/21/22 17:47	10/25/22 16:19	1
Aroclor-1232	ND		57		ug/Kg	☼	10/21/22 17:47	10/25/22 16:19	1
Aroclor-1242	ND		57		ug/Kg	☼	10/21/22 17:47	10/25/22 16:19	1
Aroclor-1248	ND		57		ug/Kg	☼	10/21/22 17:47	10/25/22 16:19	1
Aroclor-1254	ND		57		ug/Kg	☼	10/21/22 17:47	10/25/22 16:19	1
Aroclor-1260	**850**		57		ug/Kg	☼	10/21/22 17:47	10/25/22 16:19	1
Aroclor-1262	ND		57		ug/Kg	☼	10/21/22 17:47	10/25/22 16:19	1
Aroclor-1268	ND		57		ug/Kg	☼	10/21/22 17:47	10/25/22 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*74*		*24 - 136*	*10/21/22 17:47*	*10/25/22 16:19*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*37 - 135*	*10/21/22 17:47*	*10/25/22 16:19*	*1*

Client Sample ID: SS-Soil-2
Date Collected: 10/20/22 13:52
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		54		ug/Kg	☼	10/21/22 17:47	10/25/22 16:37	1
Aroclor-1221	ND		54		ug/Kg	☼	10/21/22 17:47	10/25/22 16:37	1
Aroclor-1232	ND		54		ug/Kg	☼	10/21/22 17:47	10/25/22 16:37	1
Aroclor-1242	ND		54		ug/Kg	☼	10/21/22 17:47	10/25/22 16:37	1
Aroclor-1248	ND		54		ug/Kg	☼	10/21/22 17:47	10/25/22 16:37	1
Aroclor-1254	ND		54		ug/Kg	☼	10/21/22 17:47	10/25/22 16:37	1
Aroclor-1260	ND		54		ug/Kg	☼	10/21/22 17:47	10/25/22 16:37	1
Aroclor-1262	ND		54		ug/Kg	☼	10/21/22 17:47	10/25/22 16:37	1
Aroclor-1268	ND		54		ug/Kg	☼	10/21/22 17:47	10/25/22 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*93*		*24 - 136*	*10/21/22 17:47*	*10/25/22 16:37*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*37 - 135*	*10/21/22 17:47*	*10/25/22 16:37*	*1*

Client Sample ID: SS-Soil-3
Date Collected: 10/20/22 14:00
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		55		ug/Kg	☼	10/21/22 17:47	10/25/22 16:54	1
Aroclor-1221	ND		55		ug/Kg	☼	10/21/22 17:47	10/25/22 16:54	1
Aroclor-1232	ND		55		ug/Kg	☼	10/21/22 17:47	10/25/22 16:54	1
Aroclor-1242	ND		55		ug/Kg	☼	10/21/22 17:47	10/25/22 16:54	1
Aroclor-1248	ND		55		ug/Kg	☼	10/21/22 17:47	10/25/22 16:54	1
Aroclor-1254	ND		55		ug/Kg	☼	10/21/22 17:47	10/25/22 16:54	1
Aroclor-1260	**68**		55		ug/Kg	☼	10/21/22 17:47	10/25/22 16:54	1
Aroclor-1262	ND		55		ug/Kg	☼	10/21/22 17:47	10/25/22 16:54	1
Aroclor-1268	ND		55		ug/Kg	☼	10/21/22 17:47	10/25/22 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*93*		*24 - 136*	*10/21/22 17:47*	*10/25/22 16:54*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 135*	*10/21/22 17:47*	*10/25/22 16:54*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-50B
Date Collected: 10/21/22 09:12
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-15
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 17:12	1
Aroclor-1221	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 17:12	1
Aroclor-1232	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 17:12	1
Aroclor-1242	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 17:12	1
Aroclor-1248	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 17:12	1
Aroclor-1254	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 17:12	1
Aroclor-1260	**880**		51		ug/Kg	☼	10/21/22 17:47	10/25/22 17:12	1
Aroclor-1262	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 17:12	1
Aroclor-1268	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*79*		*24 - 136*	*10/21/22 17:47*	*10/25/22 17:12*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*37 - 135*	*10/21/22 17:47*	*10/25/22 17:12*	*1*

Client Sample ID: Unit-2-LT-45D
Date Collected: 10/21/22 09:26
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-16
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:31	1
Aroclor-1221	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:31	1
Aroclor-1232	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:31	1
Aroclor-1242	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:31	1
Aroclor-1248	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:31	1
Aroclor-1254	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:31	1
Aroclor-1260	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:31	1
Aroclor-1262	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:31	1
Aroclor-1268	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*89*		*24 - 136*	*10/21/22 17:47*	*10/25/22 17:31*	*1*
DCB Decachlorobiphenyl (Surr)	*111*		*37 - 135*	*10/21/22 17:47*	*10/25/22 17:31*	*1*

Client Sample ID: Pad-A-1
Date Collected: 10/21/22 09:55
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 21:42	1
Aroclor-1221	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 21:42	1
Aroclor-1232	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 21:42	1
Aroclor-1242	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 21:42	1
Aroclor-1248	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 21:42	1
Aroclor-1254	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 21:42	1
Aroclor-1262	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 21:42	1
Aroclor-1268	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*82*		*24 - 136*	*10/21/22 17:47*	*10/25/22 21:42*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 135*	*10/21/22 17:47*	*10/25/22 21:42*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Pad-A-2
Date Collected: 10/21/22 09:47
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-18
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:48	1
Aroclor-1221	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:48	1
Aroclor-1232	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:48	1
Aroclor-1242	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:48	1
Aroclor-1248	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:48	1
Aroclor-1254	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:48	1
Aroclor-1262	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:48	1
Aroclor-1268	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*77*		*24 - 136*	*10/21/22 17:47*	*10/25/22 17:48*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*37 - 135*	*10/21/22 17:47*	*10/25/22 17:48*	*1*

Client Sample ID: Pad-B-1
Date Collected: 10/21/22 10:07
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-19
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:06	1
Aroclor-1221	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:06	1
Aroclor-1232	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:06	1
Aroclor-1242	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:06	1
Aroclor-1248	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:06	1
Aroclor-1254	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:06	1
Aroclor-1260	**300**		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:06	1
Aroclor-1262	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:06	1
Aroclor-1268	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*77*		*24 - 136*	*10/21/22 17:47*	*10/25/22 18:06*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*37 - 135*	*10/21/22 17:47*	*10/25/22 18:06*	*1*

Client Sample ID: Pad-C-1
Date Collected: 10/21/22 10:20
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-20
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 18:24	1
Aroclor-1221	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 18:24	1
Aroclor-1232	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 18:24	1
Aroclor-1242	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 18:24	1
Aroclor-1248	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 18:24	1
Aroclor-1254	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 18:24	1
Aroclor-1262	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 18:24	1
Aroclor-1268	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*88*		*24 - 136*	*10/21/22 17:47*	*10/25/22 18:24*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 135*	*10/21/22 17:47*	*10/25/22 18:24*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Pad-A-2-D
Date Collected: 10/21/22 09:47
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-21
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:42	1
Aroclor-1221	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:42	1
Aroclor-1232	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:42	1
Aroclor-1242	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:42	1
Aroclor-1248	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:42	1
Aroclor-1254	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:42	1
Aroclor-1262	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:42	1
Aroclor-1268	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*82*		*24 - 136*	*10/21/22 17:47*	*10/25/22 18:42*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 135*	*10/21/22 17:47*	*10/25/22 18:42*	*1*

Client Sample ID: Pad-D-1
Date Collected: 10/21/22 10:28
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-22
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:00	1
Aroclor-1221	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:00	1
Aroclor-1232	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:00	1
Aroclor-1242	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:00	1
Aroclor-1248	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:00	1
Aroclor-1254	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:00	1
Aroclor-1260	**550**		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:00	1
Aroclor-1262	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:00	1
Aroclor-1268	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*	*10/21/22 17:47*	*10/25/22 19:00*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*37 - 135*	*10/21/22 17:47*	*10/25/22 19:00*	*1*

Client Sample ID: Pad-E-1
Date Collected: 10/21/22 10:34
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-23
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:18	1
Aroclor-1221	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:18	1
Aroclor-1232	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:18	1
Aroclor-1242	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:18	1
Aroclor-1248	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:18	1
Aroclor-1254	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:18	1
Aroclor-1262	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:18	1
Aroclor-1268	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*	*10/21/22 17:47*	*10/25/22 19:18*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*37 - 135*	*10/21/22 17:47*	*10/25/22 19:18*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Pad-F-1
Date Collected: 10/21/22 10:42
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-24
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 20:48	1
Aroclor-1221	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 20:48	1
Aroclor-1232	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 20:48	1
Aroclor-1242	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 20:48	1
Aroclor-1248	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 20:48	1
Aroclor-1254	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 20:48	1
Aroclor-1260	**94**		52		ug/Kg	☼	10/21/22 17:47	10/25/22 20:48	1
Aroclor-1262	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 20:48	1
Aroclor-1268	ND		52		ug/Kg	☼	10/21/22 17:47	10/25/22 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*92*		*24 - 136*	*10/21/22 17:47*	*10/25/22 20:48*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 135*	*10/21/22 17:47*	*10/25/22 20:48*	*1*

Client Sample ID: Pad-F-2
Date Collected: 10/21/22 10:50
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-25
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:06	1
Aroclor-1221	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:06	1
Aroclor-1232	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:06	1
Aroclor-1242	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:06	1
Aroclor-1248	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:06	1
Aroclor-1254	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:06	1
Aroclor-1260	**470**		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:06	1
Aroclor-1262	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:06	1
Aroclor-1268	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*83*		*24 - 136*	*10/21/22 17:47*	*10/25/22 21:06*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*37 - 135*	*10/21/22 17:47*	*10/25/22 21:06*	*1*

Client Sample ID: Pad-F-2-D
Date Collected: 10/21/22 10:50
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-26
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:24	1
Aroclor-1221	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:24	1
Aroclor-1232	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:24	1
Aroclor-1242	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:24	1
Aroclor-1248	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:24	1
Aroclor-1254	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:24	1
Aroclor-1260	**520**		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:24	1
Aroclor-1262	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:24	1
Aroclor-1268	ND		51		ug/Kg	☼	10/21/22 17:47	10/25/22 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*83*		*24 - 136*	*10/21/22 17:47*	*10/25/22 21:24*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*37 - 135*	*10/21/22 17:47*	*10/25/22 21:24*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: Pad-A-1
Date Collected: 10/21/22 09:55
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	2900		260		ug/Kg	☼	10/21/22 17:47	10/26/22 10:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*86*		*24 - 136*	*10/21/22 17:47*	*10/26/22 10:44*	*5*
DCB Decachlorobiphenyl (Surr)	*71*		*37 - 135*	*10/21/22 17:47*	*10/26/22 10:44*	*5*

Client Sample ID: Pad-A-2
Date Collected: 10/21/22 09:47
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-18
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	1300		260		ug/Kg	☼	10/21/22 17:47	10/26/22 11:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*80*		*24 - 136*	*10/21/22 17:47*	*10/26/22 11:02*	*5*
DCB Decachlorobiphenyl (Surr)	*74*		*37 - 135*	*10/21/22 17:47*	*10/26/22 11:02*	*5*

Client Sample ID: Pad-C-1
Date Collected: 10/21/22 10:20
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-20
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	2100		260		ug/Kg	☼	10/21/22 17:47	10/26/22 11:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*90*		*24 - 136*	*10/21/22 17:47*	*10/26/22 11:20*	*5*
DCB Decachlorobiphenyl (Surr)	*76*		*37 - 135*	*10/21/22 17:47*	*10/26/22 11:20*	*5*

Client Sample ID: Pad-A-2-D
Date Collected: 10/21/22 09:47
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-21
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	1200		260		ug/Kg	☼	10/21/22 17:47	10/26/22 11:38	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*84*		*24 - 136*	*10/21/22 17:47*	*10/26/22 11:38*	*5*
DCB Decachlorobiphenyl (Surr)	*77*		*37 - 135*	*10/21/22 17:47*	*10/26/22 11:38*	*5*

Client Sample ID: Pad-E-1
Date Collected: 10/21/22 10:34
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-23
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	1900		260		ug/Kg	☼	10/21/22 17:47	10/26/22 11:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*88*		*24 - 136*	*10/21/22 17:47*	*10/26/22 11:56*	*5*
DCB Decachlorobiphenyl (Surr)	*76*		*37 - 135*	*10/21/22 17:47*	*10/26/22 11:56*	*5*

General Chemistry

Client Sample ID: SS-Soil-1
Date Collected: 10/20/22 13:43
Date Received: 10/21/22 15:03
Lab Sample ID: 570-114304-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.8		0.1		%			10/24/22 11:54	1

Client Sample ID: SS-Soil-2
Date Collected: 10/20/22 13:52
Date Received: 10/21/22 15:03
Lab Sample ID: 570-114304-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.1		0.1		%			10/24/22 11:54	1

Client Sample ID: SS-Soil-3
Date Collected: 10/20/22 14:00
Date Received: 10/21/22 15:03
Lab Sample ID: 570-114304-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.9		0.1		%			10/24/22 11:54	1

Client Sample ID: Unit-2-LT-50B
Date Collected: 10/21/22 09:12
Date Received: 10/21/22 15:03
Lab Sample ID: 570-114304-15
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.0		0.1		%			10/24/22 11:54	1

Client Sample ID: Unit-2-LT-45D
Date Collected: 10/21/22 09:26
Date Received: 10/21/22 15:03
Lab Sample ID: 570-114304-16
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.8		0.1		%			10/24/22 11:54	1

Client Sample ID: Pad-A-1
Date Collected: 10/21/22 09:55
Date Received: 10/21/22 15:03
Lab Sample ID: 570-114304-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.5		0.1		%			10/24/22 11:54	1

Client Sample ID: Pad-A-2
Date Collected: 10/21/22 09:47
Date Received: 10/21/22 15:03
Lab Sample ID: 570-114304-18
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.3		0.1		%			10/24/22 11:54	1

Client Sample ID: Pad-B-1
Date Collected: 10/21/22 10:07
Date Received: 10/21/22 15:03
Lab Sample ID: 570-114304-19
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.9		0.1		%			10/24/22 11:54	1

Client Sample ID: Pad-C-1
Date Collected: 10/21/22 10:20
Date Received: 10/21/22 15:03
Lab Sample ID: 570-114304-20
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.3		0.1		%			10/24/22 11:54	1

General Chemistry

Client Sample ID: Pad-A-2-D
Date Collected: 10/21/22 09:47
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-21
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.3		0.1		%			10/24/22 11:54	1

Client Sample ID: Pad-D-1
Date Collected: 10/21/22 10:28
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-22
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.4		0.1		%			10/24/22 11:56	1

Client Sample ID: Pad-E-1
Date Collected: 10/21/22 10:34
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-23
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.1		0.1		%			10/24/22 11:56	1

Client Sample ID: Pad-F-1
Date Collected: 10/21/22 10:42
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-24
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.9		0.1		%			10/24/22 11:56	1

Client Sample ID: Pad-F-2
Date Collected: 10/21/22 10:50
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-25
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.6		0.1		%			10/24/22 11:56	1

Client Sample ID: Pad-F-2-D
Date Collected: 10/21/22 10:50
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-26
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.6		0.1		%			10/24/22 11:56	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (24-136)	DCB1 (37-135)
570-114304-8	SS-Soil-1	74	94
570-114304-8 MS	SS-Soil-1	85	86
570-114304-8 MSD	SS-Soil-1	84	93
570-114304-9	SS-Soil-2	93	94
570-114304-10	SS-Soil-3	93	91
570-114304-15	Unit-2-LT-50B	79	89
570-114304-16	Unit-2-LT-45D	89	111
570-114304-17	Pad-A-1	82	81
570-114304-17 - DL	Pad-A-1	86	71
570-114304-18	Pad-A-2	77	78
570-114304-18 - DL	Pad-A-2	80	74
570-114304-19	Pad-B-1	77	63
570-114304-20	Pad-C-1	88	81
570-114304-20 - DL	Pad-C-1	90	76
570-114304-21	Pad-A-2-D	82	79
570-114304-21 - DL	Pad-A-2-D	84	77
570-114304-22	Pad-D-1	85	73
570-114304-23	Pad-E-1	85	85
570-114304-23 - DL	Pad-E-1	88	76
570-114304-24	Pad-F-1	92	81
570-114304-25	Pad-F-2	83	71
570-114304-26	Pad-F-2-D	83	72
LCS 570-274871/2-A	Lab Control Sample	72	78
LCSD 570-274871/3-A	Lab Control Sample Dup	85	93
MB 570-274871/1-A	Method Blank	86	76

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-274871/1-A

Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 275480
Prep Batch: 274871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		10/21/22 17:47	10/25/22 15:25	1
Aroclor-1221	ND		50		ug/Kg		10/21/22 17:47	10/25/22 15:25	1
Aroclor-1232	ND		50		ug/Kg		10/21/22 17:47	10/25/22 15:25	1
Aroclor-1242	ND		50		ug/Kg		10/21/22 17:47	10/25/22 15:25	1
Aroclor-1248	ND		50		ug/Kg		10/21/22 17:47	10/25/22 15:25	1
Aroclor-1254	ND		50		ug/Kg		10/21/22 17:47	10/25/22 15:25	1
Aroclor-1260	ND		50		ug/Kg		10/21/22 17:47	10/25/22 15:25	1
Aroclor-1262	ND		50		ug/Kg		10/21/22 17:47	10/25/22 15:25	1
Aroclor-1268	ND		50		ug/Kg		10/21/22 17:47	10/25/22 15:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*86*		*24 - 136*	*10/21/22 17:47*	*10/25/22 15:25*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*37 - 135*	*10/21/22 17:47*	*10/25/22 15:25*	*1*

Lab Sample ID: LCS 570-274871/2-A

Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 275480
Prep Batch: 274871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	72.75		ug/Kg		73	46 - 131
Aroclor-1260	100	103.1		ug/Kg		103	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*72*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*78*		*37 - 135*

Lab Sample ID: LCSD 570-274871/3-A

Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 275480
Prep Batch: 274871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	87.88		ug/Kg		88	46 - 131	19	32
Aroclor-1260	100	109.6		ug/Kg		110	40 - 150	6	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 135*

Lab Sample ID: 570-114304-8 MS

Client Sample ID: SS-Soil-1
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 275480
Prep Batch: 274871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		113	101.0		ug/Kg	☼	89	29 - 174
Aroclor-1260	850		113	932.8	E 4	ug/Kg	☼	71	20 - 180

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

Lab Sample ID: 570-114304-8 MS
Matrix: Solid
Analysis Batch: 275480

Client Sample ID: SS-Soil-1
Prep Type: Total/NA
Prep Batch: 274871

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*86*		*37 - 135*

Lab Sample ID: 570-114304-8 MSD
Matrix: Solid
Analysis Batch: 275480

Client Sample ID: SS-Soil-1
Prep Type: Total/NA
Prep Batch: 274871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		113	106.4		ug/Kg	☼	94	29 - 174	5	40
Aroclor-1260	850		113	971.6	E 4	ug/Kg	☼	105	20 - 180	4	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*84*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-114304-19 DU
Matrix: Solid
Analysis Batch: 275304

Client Sample ID: Pad-B-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	2.9		3.0		%		4	10

Lab Sample ID: 570-114304-A-6 DU
Matrix: Solid
Analysis Batch: 275304

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	0.9		0.9		%		6	10

Lab Sample ID: 570-114304-22 DU
Matrix: Solid
Analysis Batch: 275313

Client Sample ID: Pad-D-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	3.4		3.5		%		3	10

QC Association Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-1

GC Semi VOA

Prep Batch: 274871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114304-8	SS-Soil-1	Total/NA	Solid	3540C	
570-114304-9	SS-Soil-2	Total/NA	Solid	3540C	
570-114304-10	SS-Soil-3	Total/NA	Solid	3540C	
570-114304-15	Unit-2-LT-50B	Total/NA	Solid	3540C	
570-114304-16	Unit-2-LT-45D	Total/NA	Solid	3540C	
570-114304-17	Pad-A-1	Total/NA	Solid	3540C	
570-114304-17 - DL	Pad-A-1	Total/NA	Solid	3540C	
570-114304-18 - DL	Pad-A-2	Total/NA	Solid	3540C	
570-114304-18	Pad-A-2	Total/NA	Solid	3540C	
570-114304-19	Pad-B-1	Total/NA	Solid	3540C	
570-114304-20	Pad-C-1	Total/NA	Solid	3540C	
570-114304-20 - DL	Pad-C-1	Total/NA	Solid	3540C	
570-114304-21	Pad-A-2-D	Total/NA	Solid	3540C	
570-114304-21 - DL	Pad-A-2-D	Total/NA	Solid	3540C	
570-114304-22	Pad-D-1	Total/NA	Solid	3540C	
570-114304-23	Pad-E-1	Total/NA	Solid	3540C	
570-114304-23 - DL	Pad-E-1	Total/NA	Solid	3540C	
570-114304-24	Pad-F-1	Total/NA	Solid	3540C	
570-114304-25	Pad-F-2	Total/NA	Solid	3540C	
570-114304-26	Pad-F-2-D	Total/NA	Solid	3540C	
MB 570-274871/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-274871/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-274871/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-114304-8 MS	SS-Soil-1	Total/NA	Solid	3540C	
570-114304-8 MSD	SS-Soil-1	Total/NA	Solid	3540C	

Analysis Batch: 275480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114304-8	SS-Soil-1	Total/NA	Solid	8082	274871
570-114304-9	SS-Soil-2	Total/NA	Solid	8082	274871
570-114304-10	SS-Soil-3	Total/NA	Solid	8082	274871
570-114304-15	Unit-2-LT-50B	Total/NA	Solid	8082	274871
570-114304-16	Unit-2-LT-45D	Total/NA	Solid	8082	274871
570-114304-17	Pad-A-1	Total/NA	Solid	8082	274871
570-114304-18	Pad-A-2	Total/NA	Solid	8082	274871
570-114304-19	Pad-B-1	Total/NA	Solid	8082	274871
570-114304-20	Pad-C-1	Total/NA	Solid	8082	274871
570-114304-21	Pad-A-2-D	Total/NA	Solid	8082	274871
570-114304-22	Pad-D-1	Total/NA	Solid	8082	274871
570-114304-23	Pad-E-1	Total/NA	Solid	8082	274871
570-114304-24	Pad-F-1	Total/NA	Solid	8082	274871
570-114304-25	Pad-F-2	Total/NA	Solid	8082	274871
570-114304-26	Pad-F-2-D	Total/NA	Solid	8082	274871
MB 570-274871/1-A	Method Blank	Total/NA	Solid	8082	274871
LCS 570-274871/2-A	Lab Control Sample	Total/NA	Solid	8082	274871
LCSD 570-274871/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	274871
570-114304-8 MS	SS-Soil-1	Total/NA	Solid	8082	274871
570-114304-8 MSD	SS-Soil-1	Total/NA	Solid	8082	274871

QC Association Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-1

GC Semi VOA

Analysis Batch: 275875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114304-17 - DL	Pad-A-1	Total/NA	Solid	8082	274871
570-114304-18 - DL	Pad-A-2	Total/NA	Solid	8082	274871
570-114304-20 - DL	Pad-C-1	Total/NA	Solid	8082	274871
570-114304-21 - DL	Pad-A-2-D	Total/NA	Solid	8082	274871
570-114304-23 - DL	Pad-E-1	Total/NA	Solid	8082	274871

General Chemistry

Analysis Batch: 275304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114304-8	SS-Soil-1	Total/NA	Solid	Moisture	
570-114304-9	SS-Soil-2	Total/NA	Solid	Moisture	
570-114304-10	SS-Soil-3	Total/NA	Solid	Moisture	
570-114304-15	Unit-2-LT-50B	Total/NA	Solid	Moisture	
570-114304-16	Unit-2-LT-45D	Total/NA	Solid	Moisture	
570-114304-17	Pad-A-1	Total/NA	Solid	Moisture	
570-114304-18	Pad-A-2	Total/NA	Solid	Moisture	
570-114304-19	Pad-B-1	Total/NA	Solid	Moisture	
570-114304-20	Pad-C-1	Total/NA	Solid	Moisture	
570-114304-21	Pad-A-2-D	Total/NA	Solid	Moisture	
570-114304-19 DU	Pad-B-1	Total/NA	Solid	Moisture	
570-114304-A-6 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 275313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114304-22	Pad-D-1	Total/NA	Solid	Moisture	
570-114304-23	Pad-E-1	Total/NA	Solid	Moisture	
570-114304-24	Pad-F-1	Total/NA	Solid	Moisture	
570-114304-25	Pad-F-2	Total/NA	Solid	Moisture	
570-114304-26	Pad-F-2-D	Total/NA	Solid	Moisture	
570-114304-22 DU	Pad-D-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-1

Client Sample ID: SS-Soil-1

Date Collected: 10/20/22 13:43
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.97 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 16:19	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275304	10/24/22 11:54	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: SS-Soil-2

Date Collected: 10/20/22 13:52
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.11 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 16:37	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275304	10/24/22 11:54	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: SS-Soil-3

Date Collected: 10/20/22 14:00
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.05 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 16:54	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275304	10/24/22 11:54	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-50B

Date Collected: 10/21/22 09:12
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.10 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 17:12	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275304	10/24/22 11:54	B4QL	EET CAL 4
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-1

Client Sample ID: Unit-2-LT-45D

Lab Sample ID: 570-114304-16

Date Collected: 10/21/22 09:26
Date Received: 10/21/22 15:03

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.92 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 17:31	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275304	10/24/22 11:54	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Pad-A-1

Lab Sample ID: 570-114304-17

Date Collected: 10/21/22 09:55
Date Received: 10/21/22 15:03

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.99 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 21:42	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		19.99 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	275875	10/26/22 10:44	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275304	10/24/22 11:54	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Pad-A-2

Lab Sample ID: 570-114304-18

Date Collected: 10/21/22 09:47
Date Received: 10/21/22 15:03

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.03 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 17:48	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.03 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	275875	10/26/22 11:02	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275304	10/24/22 11:54	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Pad-B-1

Lab Sample ID: 570-114304-19

Date Collected: 10/21/22 10:07
Date Received: 10/21/22 15:03

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.02 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 18:06	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275304	10/24/22 11:54	B4QL	EET CAL 4
	Instrument ID: MOI2									

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-1

Client Sample ID: Pad-C-1

Date Collected: 10/21/22 10:20
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.99 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 18:24	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		19.99 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	275875	10/26/22 11:20	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275304	10/24/22 11:54	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Pad-A-2-D

Date Collected: 10/21/22 09:47
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.13 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 18:42	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.13 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	275875	10/26/22 11:38	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275304	10/24/22 11:54	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Pad-D-1

Date Collected: 10/21/22 10:28
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.92 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 19:00	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275313	10/24/22 11:56	B4QL	EET CAL 4
	Instrument ID: MOI3									

Client Sample ID: Pad-E-1

Date Collected: 10/21/22 10:34
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.03 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 19:18	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.03 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	275875	10/26/22 11:56	AJ2Q	EET CAL 4
	Instrument ID: GC58									

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-1

Client Sample ID: Pad-E-1
Date Collected: 10/21/22 10:34
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			275313	10/24/22 11:56	B4QL	EET CAL 4

Client Sample ID: Pad-F-1
Date Collected: 10/21/22 10:42
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.05 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 20:48	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275313	10/24/22 11:56	B4QL	EET CAL 4
	Instrument ID: MOI3									

Client Sample ID: Pad-F-2
Date Collected: 10/21/22 10:50
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.94 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 21:06	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275313	10/24/22 11:56	B4QL	EET CAL 4
	Instrument ID: MOI3									

Client Sample ID: Pad-F-2-D
Date Collected: 10/21/22 10:50
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.01 g	10 mL	274871	10/21/22 17:47	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275480	10/25/22 21:24	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275313	10/24/22 11:56	B4QL	EET CAL 4
	Instrument ID: MOI3									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-1

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-114304-8	SS-Soil-1	Solid	10/20/22 13:43	10/21/22 15:03
570-114304-9	SS-Soil-2	Solid	10/20/22 13:52	10/21/22 15:03
570-114304-10	SS-Soil-3	Solid	10/20/22 14:00	10/21/22 15:03
570-114304-15	Unit-2-LT-50B	Solid	10/21/22 09:12	10/21/22 15:03
570-114304-16	Unit-2-LT-45D	Solid	10/21/22 09:26	10/21/22 15:03
570-114304-17	Pad-A-1	Solid	10/21/22 09:55	10/21/22 15:03
570-114304-18	Pad-A-2	Solid	10/21/22 09:47	10/21/22 15:03
570-114304-19	Pad-B-1	Solid	10/21/22 10:07	10/21/22 15:03
570-114304-20	Pad-C-1	Solid	10/21/22 10:20	10/21/22 15:03
570-114304-21	Pad-A-2-D	Solid	10/21/22 09:47	10/21/22 15:03
570-114304-22	Pad-D-1	Solid	10/21/22 10:28	10/21/22 15:03
570-114304-23	Pad-E-1	Solid	10/21/22 10:34	10/21/22 15:03
570-114304-24	Pad-F-1	Solid	10/21/22 10:42	10/21/22 15:03
570-114304-25	Pad-F-2	Solid	10/21/22 10:50	10/21/22 15:03
570-114304-26	Pad-F-2-D	Solid	10/21/22 10:50	10/21/22 15:03

eurofins | Calscience

CHAIN OF CUSTODY RECORD

DATE: 10-20-2022

PAGE: 1 OF 3

2841 Dow Avenue, Suite 100, Tustin, CA 92780-7211 • (714) 895-5494

LABORATORY CLIENT: Roux Associates, Inc.

ADDRESS: 5150 E. PCH, Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL: E-MAIL:

CLIENT PROJECT NAME / NUMBER: Etiwanda / 3653.0001.4000

P.O. NO.: 57008787

PROJECT CONTACT: Matthew Nelson, Mark Nixt, Barrett

SAMPLER(S): (PRINT) Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID: | ECI PROJECT NO.: | LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ ORO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs: ☐ 8270 ☐ 8270 SIM	T22 Metals: ☐ 6010/747X ☐ 6020/747X	Cr(VI): ☐ 7196 ☐ 7199 ☐ 218.6	Hold	Moisture			
	Unit-2-SST-SO-W-SW-45A	10-20-22	1201	asphalt	1																		X				
	Unit-2-SST-SO-W-SW-45B		1210		1																		X				
	Unit-2-SST-SO-W-SW-45C		1217		1																		X				
	Unit-2-SST-SO-W-SW-45D		1228		1																		X				
	Unit-2-SST-SO-W-SW-45E		1237		1																		X				
	Unit-2-SST-SO-W-SW-45F		1246		1																		X				
	Unit-2-SST-SO-W-SW-45G		1258		1																		X				
	SS-Soil-1		1343	Soil	1														X					X			
	SS-Soil-2		1352		1														X					X			
	SS-Soil-3		1400		1														X					X			

Relinquished by: (Signature) Ian Cross	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Re	Date:	Time:
Relinquished by: (Signature)	Re	Date:	Time:

Revised COC received from Matthew Nelson (Roux) on 10/21/2022 at 13:48pm.
- Virendra (ECI)

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CHAIN OF CUSTODY RECORD

DATE: 10-20-22

PAGE: 2 OF 3

2841 Dow Avenue, Suite 100, Tustin, CA 92780-7211 • (714) 895-5494

LABORATORY CLIENT: Roux Associates, Inc.

ADDRESS: 5150 E. Pacific Coast Hwy, Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL: E-MAIL:

CLIENT PROJECT NAME / NUMBER: Etiwanda / 3653.00016000

P.O. NO.:

PROJECT CONTACT: Matthew Nelson, Mark [illegible]

SAMPLER(S): (PRINT) Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID: | ECI PROJECT NO.: | LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 C	PAHs: ☐ 8270 ☐ 8270 SIM	T22 Metals: ☐ 6010/747X ☐ 6020/747X	Cr(VI): ☐ 7196 ☐ 7199 ☐ 218.6	Hold	Moisture		
	SS-Soil-4	10-20-22		Soil	1																				
	Unit-2-LT-45C	10-21-22	0841	Soil	1																		X		
	Unit-2-LT-40E	"	0850	Soil	1																		X		
	Unit-2-LT-50A	"	0901	Corrected	1																		X		
	Unit-2-LT-50B	"	0912	"	1														X					X	
	Unit-2-LT-45D	"	0926	"	1														X					X	
	Pad-A-1	"	0955	"	1														X					X	
	Pad-A-2	"	0947	"	1														X					X	
	Pad-B-1	"	1003	"	1														X					X	
	Pad-C-1	"	1020	"	1														X					X	

Relinquished by: (Signature) Ian Cross

Received by: (Signature/Affiliation)

Date: Time:

Relinquished by: (Signature)

Date: Time:

Relinquished by: (Signature)

Date: Time:

Revised COC received from Matthew Nelson (Roux) on 10/21/2022 at 13:48pm.
- Virendra (ECI)

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CHAIN OF CUSTODY RECORD

DATE: 10-21-2022

PAGE: 3 OF 3

2841 Dow Avenue, Suite 100, Tustin, CA 92780-7211 • (714) 895-5494

LABORATORY CLIENT: Roux Associates

ADDRESS: 5150 E. Pacific Coast Hwy., Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL: E-MAIL:

CLIENT PROJECT NAME / NUMBER: P.O. NO.:

PROJECT CONTACT: SAMPLER(S): (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: ECI PROJECT NO.: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) GRO	TPH(d) DRO	TPH C6-C36 ☒ C6-C44	TPH	BTEX / MTBE 8260	VOCs (8260)	Oxygenates (8260)	Prep (5035): En Core / Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 C	PAHs: 8270 / 8270 SIM	T22 Metals: 6010/747X ☒ 6020/747X	Cr(VI): 7196 / 7199 / 218.6	Moisture				
	Pad-A-2-D	10-21-22	0947	Cake Soil	1									X					X		X		X				
	Pad-D-1		1028	"	1														X				X				
	Pad-E-1		1034	"	1														X				X				
	Pad-F-1		1042	"	1														X				X				
	Pad-F-2		1050	"	1														X				X				
	Pad-F-2-D	V	1050	"	1														X				X				

Relinquished by: (Signature) Jim Cross	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Si	Date:	Time:
Relinquished by: (Signature)	Received by: (Si	Date:	Time:

Revised COC received from Matthew Nelson (Roux) on 10/21/2022 at 13:48pm.
- Virendra (ECI)

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570-114304 Chain of Custody

114304

CHAIN OF CUSTODY RECORD

DATE: 10-20-2022

PAGE: 1 OF 3

LABORATORY CLIENT: Pour Associates, Inc.

ADDRESS: 5150 E. PCH, Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL.

E-MAIL.

CLIENT PROJECT NAME / NUMBER: Edwards / 3653.0001L4000

PO NO: 57008787

PROJECT CONTACT: Matthew Nelson, Mark Nykiel, Lauren

SAMPLER(S) (PRINT): Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):

☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF

GLOBAL ID

ECI PROJECT NO

LOG CODE.

SPECIAL INSTRUCTIONS.

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Hold				
1	Unit-2-SST-SO-W-SW-45A	10-20-22	1201	asphalt	1																		X				
2	Unit-2-SST-SO-W-SW-45B		1210		1																		X				
3	Unit-2-SST-SO-W-SW-45C		1217		1																		X				
4	Unit-2-SST-SO-W-SW-45D		1228		1																		X				
5	Unit-2-SST-SO-W-SW-45E		1237		1																		X				
6	Unit-2-SST-SO-W-SW-45F		1246		1																		X				
7	Unit-2-SST-SO-W-SW-45G		1258		1																		X				
8	SS-Soil-1		1343	Soil	1														X								
9	SS-Soil-2		1352		1														X								
10	SS-Soil-3		1400		1														X								

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Ian Cross	EC	10-21-2022	15.03
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.

3.5/33 soil

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CHAIN OF CUSTODY RECORD

DATE: 10-20-22

PAGE: 2 OF 3

2841 Dow Avenue, Suite 100 Tustin CA 92780-7211 • (714) 895-5494

LABORATORY CLIENT: Roux Associates, Inc.

ADDRESS: 5150 E. Pacific Coast Hwy, Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL. E-MAIL.

CLIENT PROJECT NAME / NUMBER: Etiwanda / 3653.00016000

PO NO

PROJECT CONTACT: Matthew Nelson, Mark Nishibayashi

SAMPLER(S): (PRINT) Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID. | ECI PROJECT NO | LOG CODE:

SPECIAL INSTRUCTIONS.

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Hold			
11	SS-Soil-4	10-20-22	1407	Soil	1																		X			
12	Unit-2-LT-45C	10-21-22	0841	Soil	1																		X			
13	Unit-2-LT-40E		0850	Soil	1																		X			
14	Unit-2-LT-50A		0901	Concrete	1																		X			
15	Unit-2-LT-50B		0912	"	1														X							
16	Unit-2-LT-45D		0926	"	1														X							
17	Pad-A-1		0955	"	1														X							
18	Pad-A-2		0947	"	1														X							
19	Pad-B-1		1013	"	1														X							
20	Pad-C-1		1020	"	1														X							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Ian Cross	EC	10-21-2022	15:03
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.

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CHAIN OF CUSTODY RECORD

DATE: 10-21-2022

PAGE: 3 OF 3

2841 Dow Avenue Suite 100 Tustin CA 92780-7211 • (714) 895-5494

LABORATORY CLIENT: Rourk Associates

ADDRESS: 5150 E. Pacific Coast Hwy, Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL.

E-MAIL.

CLIENT PROJECT NAME / NUMBER.

PO NO

PROJECT CONTACT:

SAMPLER(S) (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD").

☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF

GLOBAL ID:

ECI PROJECT NO

LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☒ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6				
21	Pad-A-2-D	10-21-22	0947	Concrete	1									~~X~~					X		~~X~~					
22	Pad-D-1	"	1028	"	1														X							
23	Pad-E-1	"	1034	"	1														X							
24	Pad-F-1	"	1042	"	1														X							
25	Pad-F-2	"	1050	"	1														X							
26	Pad-F-2-D	"	1050	"	1														X							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Jim Crow	AG FC	10-21-2022	15:03
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time.

01/28/22 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-114304-1

Login Number: 114304
List Number: 1
Creator: Cortez Diaz, Antonio

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-114304-2
Client Project/Site: Etiwanda / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
10/27/2022 11:44:47 AM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-2

Client Sample ID: Unit-2-SST-SD-W-SW-45F — Lab Sample ID: 570-114304-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	320		100		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-SST-SD-W-SW-45G — Lab Sample ID: 570-114304-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	440		100		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-40E — Lab Sample ID: 570-114304-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254 - DL	3100		570		ug/Kg	10	☼	8082	Total/NA
Aroclor-1260 - DL	1600		570		ug/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: Unit-2-LT-40E
Date Collected: 10/21/22 08:50
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1254	3100		570		ug/Kg	☼	10/24/22 12:08	10/26/22 17:34	10
Aroclor-1260	1600		570		ug/Kg	☼	10/24/22 12:08	10/26/22 17:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*109*		*24 - 136*	*10/24/22 12:08*	*10/26/22 17:34*	*10*
DCB Decachlorobiphenyl (Surr)	*88*		*37 - 135*	*10/24/22 12:08*	*10/26/22 17:34*	*10*

General Chemistry

Client Sample ID: Unit-2-SST-SD-W-SW-45F
Date Collected: 10/20/22 12:46
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.9		0.1		%			10/24/22 11:54	1

Client Sample ID: Unit-2-SST-SD-W-SW-45G
Date Collected: 10/20/22 12:58
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.2		0.1		%			10/24/22 11:54	1

Client Sample ID: Unit-2-LT-40E
Date Collected: 10/21/22 08:50
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.7		0.1		%			10/24/22 11:54	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-2

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-114304-6	Unit-2-SST-SD-W-SW-45F	60	43
570-114304-6 MS	Unit-2-SST-SD-W-SW-45F	106	81
570-114304-6 MSD	Unit-2-SST-SD-W-SW-45F	79	59
570-114304-7	Unit-2-SST-SD-W-SW-45G	48	39
570-114304-13	Unit-2-LT-40E	93	121
570-114304-13 - DL	Unit-2-LT-40E	109	88
LCS 570-275274/2-A	Lab Control Sample	79	75
LCSD 570-275274/3-A	Lab Control Sample Dup	90	95
MB 570-275274/1-A	Method Blank	90	95

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-275274/1-A
Matrix: Solid
Analysis Batch: 275875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1221	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1232	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1242	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1248	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1254	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1260	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1262	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1
Aroclor-1268	ND		50		ug/Kg		10/24/22 12:08	10/26/22 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*90*		*24 - 136*	*10/24/22 12:08*	*10/26/22 12:14*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 135*	*10/24/22 12:08*	*10/26/22 12:14*	*1*

Lab Sample ID: LCS 570-275274/2-A
Matrix: Solid
Analysis Batch: 275875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275274

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016			100	80.82		ug/Kg		81	46 - 131		
Aroclor-1260			100	86.43		ug/Kg		86	40 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*79*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*75*		*37 - 135*

Lab Sample ID: LCSD 570-275274/3-A
Matrix: Solid
Analysis Batch: 275875

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 275274

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			100	94.24		ug/Kg		94	46 - 131	15	32
Aroclor-1260			100	118.2		ug/Kg		118	40 - 150	31	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*90*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 135*

Lab Sample ID: 570-114304-6 MS
Matrix: Solid
Analysis Batch: 275875

Client Sample ID: Unit-2-SST-SD-W-SW-45F
Prep Type: Total/NA
Prep Batch: 275274

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016	ND	F1	101	124.2	p	ug/Kg	☼	123	29 - 174		
Aroclor-1260	320		101	499.9		ug/Kg	☼	175	20 - 180		

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

Lab Sample ID: 570-114304-6 MS
Matrix: Solid
Analysis Batch: 275875

Client Sample ID: Unit-2-SST-SD-W-SW-45F
Prep Type: Total/NA
Prep Batch: 275274

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*106*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 135*

Lab Sample ID: 570-114304-6 MSD
Matrix: Solid
Analysis Batch: 275875

Client Sample ID: Unit-2-SST-SD-W-SW-45F
Prep Type: Total/NA
Prep Batch: 275274

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND	F1	101	ND	F1	ug/Kg	☼	0	29 - 174	NC	40
Aroclor-1260	320		101	432.0		ug/Kg	☼	108	20 - 180	15	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*79*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*59*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-114304-6 DU
Matrix: Solid
Analysis Batch: 275304

Client Sample ID: Unit-2-SST-SD-W-SW-45F
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	0.9		0.9		%		6	10

QC Association Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-2

GC Semi VOA

Prep Batch: 275274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114304-6	Unit-2-SST-SD-W-SW-45F	Total/NA	Solid	3540C	
570-114304-7	Unit-2-SST-SD-W-SW-45G	Total/NA	Solid	3540C	
570-114304-13	Unit-2-LT-40E	Total/NA	Solid	3540C	
570-114304-13 - DL	Unit-2-LT-40E	Total/NA	Solid	3540C	
MB 570-275274/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-275274/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-275274/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-114304-6 MS	Unit-2-SST-SD-W-SW-45F	Total/NA	Solid	3540C	
570-114304-6 MSD	Unit-2-SST-SD-W-SW-45F	Total/NA	Solid	3540C	

Analysis Batch: 275875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114304-6	Unit-2-SST-SD-W-SW-45F	Total/NA	Solid	8082	275274
570-114304-7	Unit-2-SST-SD-W-SW-45G	Total/NA	Solid	8082	275274
570-114304-13	Unit-2-LT-40E	Total/NA	Solid	8082	275274
570-114304-13 - DL	Unit-2-LT-40E	Total/NA	Solid	8082	275274
MB 570-275274/1-A	Method Blank	Total/NA	Solid	8082	275274
LCS 570-275274/2-A	Lab Control Sample	Total/NA	Solid	8082	275274
LCSD 570-275274/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	275274
570-114304-6 MS	Unit-2-SST-SD-W-SW-45F	Total/NA	Solid	8082	275274
570-114304-6 MSD	Unit-2-SST-SD-W-SW-45F	Total/NA	Solid	8082	275274

General Chemistry

Analysis Batch: 275304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114304-6	Unit-2-SST-SD-W-SW-45F	Total/NA	Solid	Moisture	
570-114304-7	Unit-2-SST-SD-W-SW-45G	Total/NA	Solid	Moisture	
570-114304-13	Unit-2-LT-40E	Total/NA	Solid	Moisture	
570-114304-6 DU	Unit-2-SST-SD-W-SW-45F	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-2

Client Sample ID: Unit-2-SST-SD-W-SW-45F

Lab Sample ID: 570-114304-6

Date Collected: 10/20/22 12:46
Date Received: 10/21/22 15:03

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.99 g	20 mL	275274	10/24/22 12:08	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275875	10/26/22 13:08	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275304	10/24/22 11:54	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-SST-SD-W-SW-45G

Lab Sample ID: 570-114304-7

Date Collected: 10/20/22 12:58
Date Received: 10/21/22 15:03

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.10 g	20 mL	275274	10/24/22 12:08	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275875	10/26/22 14:34	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275304	10/24/22 11:54	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-40E

Lab Sample ID: 570-114304-13

Date Collected: 10/21/22 08:50
Date Received: 10/21/22 15:03

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.95 g	10 mL	275274	10/24/22 12:08	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	275875	10/26/22 14:52	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		19.95 g	10 mL	275274	10/24/22 12:08	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	10	1 mL	1 mL	275875	10/26/22 17:34	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			275304	10/24/22 11:54	B4QL	EET CAL 4
	Instrument ID: MOI2									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-2

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-114304-6	Unit-2-SST-SD-W-SW-45F	Solid	10/20/22 12:46	10/21/22 15:03
570-114304-7	Unit-2-SST-SD-W-SW-45G	Solid	10/20/22 12:58	10/21/22 15:03
570-114304-13	Unit-2-LT-40E	Solid	10/21/22 08:50	10/21/22 15:03

Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Monday, October 24, 2022 9:25 AM
To: Patel, Virendra
Cc: Matthew Nelson
Subject: RE: Eurofins Calscience sample confirmation files from 570-114304-1 Etiwanda / 3653.0001L000

EXTERNAL EMAIL*

Hi Virendra,

Will you please direct the lab to release and analyze the following samples:

- Unit-2-SST-SO-W-SW-45F
- Unit-2-SST-SO-W-SW-45G
- Unit-2-LT-40E

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Sunday, October 23, 2022 9:15 AM
To: Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>
Subject: Eurofins Calscience sample confirmation files from 570-114304-1 Etiwanda / 3653.0001L000

This message originated outside your organization. Please use caution!

Hello,

Attached please find the sample confirmation files for job 570-114304-1; Etiwanda / 3653.0001L000

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env

Reference: [570-379522]
Attachments: 3

> > Bank information has changed, please refer to remittance information on invoice. < <

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

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570-114304 Chain of Custody

114304

CHAIN OF CUSTODY RECORD

DATE: 10-20-2022

PAGE: 1 OF 3

LABORATORY CLIENT: Pour Associates, Inc.

ADDRESS: 5150 E. PCH, Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL.

E-MAIL.

CLIENT PROJECT NAME / NUMBER: Edwards / 3653.00014000

PO NO: 57008787

PROJECT CONTACT: Matthew Nelson, Mark Nykiel, Laura

SAMPLER(S) (PRINT): Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):

☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID | ECI PROJECT NO | LOG CODE.

SPECIAL INSTRUCTIONS.

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Hold				
1	Unit-2-SST-SD-GB-SW-45A	10-20-22	1201	asphalt	1																		X				
2	Unit-2-SST-SD-GB-SW-45B		1210		1																		X				
3	Unit-2-SST-SD-GB-SW-45C		1217		1																		X				
4	Unit-2-SST-SD-W-SW-45D		1228		1																		X				
5	Unit-2-SST-SD-W-SW-45E		1237		1																		X				
6	Unit-2-SST-SD-W-SW-45F		1246		1																		X				
7	Unit-2-SST-SD-W-SW-45G		1258		1																		X				
8	SS-Soil-1		1343	Soil	1														X								
9	SS-Soil-2		1352		1														X								
10	SS-Soil-3		1400		1														X								

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Ian Cross	EC	10-21-2022	15.03
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.

3.5/33 soil

01/28/22 Revision

114304

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CHAIN OF CUSTODY RECORD

DATE: 10-20-22

PAGE: 2 OF 3

2841 Dow Avenue, Suite 100 Tustin CA 92780-7211 • (714) 895-5494

LABORATORY CLIENT: Roux Associates, Inc.

ADDRESS: 5150 E. Pacific Coast Hwy, Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL. E-MAIL.

CLIENT PROJECT NAME / NUMBER: Etiwanda / 3653.00016000

PO NO

PROJECT CONTACT: Matthew Nelson, Mark Nishibayashi

SAMPLER(S): (PRINT) Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID. | ECI PROJECT NO | LOG CODE:

SPECIAL INSTRUCTIONS.

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Hold			
11	SS-Soil-4	10-20-22	1407	Soil	1														X					X		
12	Unit-2-LT-45C	10-21-22	0841	Soil	1																			X		
13	Unit-2-LT-40E		0850	Soil	1																			X		
14	Unit-2-LT-50A		0901	Concrete	1																			X		
15	Unit-2-LT-50B		0912	"	1														X							
16	Unit-2-LT-45D		0926	"	1														X							
17	Pad-A-1		0955	"	1														X							
18	Pad-A-2		0947	"	1														X							
19	Pad-B-1		1007	"	1														X							
20	Pad-C-1		1020	"	1														X							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Ian Cross	EC	10-21-2022	15:03
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.

01/28/22 Revision

114304

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CHAIN OF CUSTODY RECORD

DATE: 10-21-2022

PAGE: 3 OF 3

2841 Dow Avenue Suite 100 Tustin CA 92780-7211 • (714) 895-5494

LABORATORY CLIENT: Rourk Associates

ADDRESS: 5150 E. Pacific Coast Hwy, Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL.

E-MAIL.

CLIENT PROJECT NAME / NUMBER.

PO NO

PROJECT CONTACT:

SAMPLER(S) (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD").

☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF

GLOBAL ID:

ECI PROJECT NO

LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☒ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6
21	Pad-A-2-D	10-21-22	0947	Concrete	1									☒					X		☒	
22	Pad-D-1		1028	"	1														X			
23	Pad-E-1		1034	"	1														X			
24	Pad-F-1		1042	"	1														X			
25	Pad-F-2		1050	"	1														X			
26	Pad-F-2-D		1050	"	1														X			

Relinquished by: (Signature) Jim Crow	Received by: (Signature/Affiliation) AC FC	Date: 10-21-2022	Time: 15:03
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

01/28/22 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-114304-2

Login Number: 114304
List Number: 1
Creator: Cortez Diaz, Antonio

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-114304-3
Client Project/Site: Etiwanda / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
11/1/2022 5:57:41 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-3

Glossary

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

Case Narrative

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-3

Job ID: 570-114304-3

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-114304-3

Comments
No additional comments.

Receipt
The samples were received on 10/21/2022 3:03 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-3

Client Sample ID: SS-Soil-4

Lab Sample ID: 570-114304-11

No Detections.

Client Sample ID: Unit-2-LT-50A

Lab Sample ID: 570-114304-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	220		52		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	160		52		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SS-Soil-4
Date Collected: 10/20/22 14:07
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		56		ug/Kg	☼	10/27/22 13:23	11/01/22 12:00	1
Aroclor-1221	ND		56		ug/Kg	☼	10/27/22 13:23	11/01/22 12:00	1
Aroclor-1232	ND		56		ug/Kg	☼	10/27/22 13:23	11/01/22 12:00	1
Aroclor-1242	ND		56		ug/Kg	☼	10/27/22 13:23	11/01/22 12:00	1
Aroclor-1248	ND		56		ug/Kg	☼	10/27/22 13:23	11/01/22 12:00	1
Aroclor-1254	ND		56		ug/Kg	☼	10/27/22 13:23	11/01/22 12:00	1
Aroclor-1260	ND		56		ug/Kg	☼	10/27/22 13:23	11/01/22 12:00	1
Aroclor-1262	ND		56		ug/Kg	☼	10/27/22 13:23	11/01/22 12:00	1
Aroclor-1268	ND		56		ug/Kg	☼	10/27/22 13:23	11/01/22 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*88*		*24 - 136*	*10/27/22 13:23*	*11/01/22 12:00*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*37 - 135*	*10/27/22 13:23*	*11/01/22 12:00*	*1*

Client Sample ID: Unit-2-LT-50A
Date Collected: 10/21/22 09:01
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		52		ug/Kg	☼	10/27/22 13:23	11/01/22 12:18	1
Aroclor-1221	ND		52		ug/Kg	☼	10/27/22 13:23	11/01/22 12:18	1
Aroclor-1232	ND		52		ug/Kg	☼	10/27/22 13:23	11/01/22 12:18	1
Aroclor-1242	ND		52		ug/Kg	☼	10/27/22 13:23	11/01/22 12:18	1
Aroclor-1248	ND		52		ug/Kg	☼	10/27/22 13:23	11/01/22 12:18	1
Aroclor-1254	**220**		52		ug/Kg	☼	10/27/22 13:23	11/01/22 12:18	1
Aroclor-1260	**160**		52		ug/Kg	☼	10/27/22 13:23	11/01/22 12:18	1
Aroclor-1262	ND		52		ug/Kg	☼	10/27/22 13:23	11/01/22 12:18	1
Aroclor-1268	ND		52		ug/Kg	☼	10/27/22 13:23	11/01/22 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*79*		*24 - 136*	*10/27/22 13:23*	*11/01/22 12:18*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 135*	*10/27/22 13:23*	*11/01/22 12:18*	*1*

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-3

General Chemistry

Client Sample ID: SS-Soil-4
Date Collected: 10/20/22 14:07
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.9		0.1		%			10/27/22 15:26	1

Client Sample ID: Unit-2-LT-50A
Date Collected: 10/21/22 09:01
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.6		0.1		%			10/27/22 15:26	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-3

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-114304-11	SS-Soil-4	88	84
570-114304-14	Unit-2-LT-50A	79	81
570-114592-A-63-B MS	Matrix Spike	87	87
570-114592-A-63-C MSD	Matrix Spike Duplicate	92	101
LCS 570-276108/2-A	Lab Control Sample	85	101
LCSD 570-276108/3-A	Lab Control Sample Dup	90	103
MB 570-276108/1-A	Method Blank	94	107

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-276108/1-A
Matrix: Solid
Analysis Batch: 277703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 276108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		10/26/22 16:53	11/01/22 11:06	1
Aroclor-1221	ND		50		ug/Kg		10/26/22 16:53	11/01/22 11:06	1
Aroclor-1232	ND		50		ug/Kg		10/26/22 16:53	11/01/22 11:06	1
Aroclor-1242	ND		50		ug/Kg		10/26/22 16:53	11/01/22 11:06	1
Aroclor-1248	ND		50		ug/Kg		10/26/22 16:53	11/01/22 11:06	1
Aroclor-1254	ND		50		ug/Kg		10/26/22 16:53	11/01/22 11:06	1
Aroclor-1260	ND		50		ug/Kg		10/26/22 16:53	11/01/22 11:06	1
Aroclor-1262	ND		50		ug/Kg		10/26/22 16:53	11/01/22 11:06	1
Aroclor-1268	ND		50		ug/Kg		10/26/22 16:53	11/01/22 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*94*		*24 - 136*	*10/26/22 16:53*	*11/01/22 11:06*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*37 - 135*	*10/26/22 16:53*	*11/01/22 11:06*	*1*

Lab Sample ID: LCS 570-276108/2-A
Matrix: Solid
Analysis Batch: 277703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 276108

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016			100	91.40		ug/Kg		91	46 - 131		
Aroclor-1260			100	118.3		ug/Kg		118	40 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*101*		*37 - 135*

Lab Sample ID: LCSD 570-276108/3-A
Matrix: Solid
Analysis Batch: 277703

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 276108

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			100	98.82		ug/Kg		99	46 - 131	8	32
Aroclor-1260			100	114.6		ug/Kg		115	40 - 150	3	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*90*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*103*		*37 - 135*

Lab Sample ID: 570-114592-A-63-B MS
Matrix: Solid
Analysis Batch: 277703

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 276108

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016	ND		108	104.6		ug/Kg	☼	97	29 - 174		
Aroclor-1260	ND		108	111.0		ug/Kg	☼	103	20 - 180		

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

Lab Sample ID: 570-114592-A-63-B MS
Matrix: Solid
Analysis Batch: 277703

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 276108

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*87*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 135*

Lab Sample ID: 570-114592-A-63-C MSD
Matrix: Solid
Analysis Batch: 277703

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 276108

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		108	113.4		ug/Kg	☼	105	29 - 174	8	40
Aroclor-1260	ND		108	132.2		ug/Kg	☼	122	20 - 180	17	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*92*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*101*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-114304-14 DU
Matrix: Solid
Analysis Batch: 276556

Client Sample ID: Unit-2-LT-50A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	4.6		4.6		%		1	10

QC Association Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-3

GC Semi VOA

Prep Batch: 276108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114304-11	SS-Soil-4	Total/NA	Solid	3540C	
570-114304-14	Unit-2-LT-50A	Total/NA	Solid	3540C	
MB 570-276108/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-276108/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-276108/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-114592-A-63-B MS	Matrix Spike	Total/NA	Solid	3540C	
570-114592-A-63-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3540C	

Analysis Batch: 277703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114304-11	SS-Soil-4	Total/NA	Solid	8082	276108
570-114304-14	Unit-2-LT-50A	Total/NA	Solid	8082	276108
MB 570-276108/1-A	Method Blank	Total/NA	Solid	8082	276108
LCS 570-276108/2-A	Lab Control Sample	Total/NA	Solid	8082	276108
LCSD 570-276108/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	276108
570-114592-A-63-B MS	Matrix Spike	Total/NA	Solid	8082	276108
570-114592-A-63-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	276108

General Chemistry

Analysis Batch: 276556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114304-11	SS-Soil-4	Total/NA	Solid	Moisture	
570-114304-14	Unit-2-LT-50A	Total/NA	Solid	Moisture	
570-114304-14 DU	Unit-2-LT-50A	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-3

Client Sample ID: SS-Soil-4

Lab Sample ID: 570-114304-11

Date Collected: 10/20/22 14:07
Matrix: Solid
Date Received: 10/21/22 15:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.15 g	10 mL	276108	10/27/22 13:23	UM1W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	277703	11/01/22 12:00	J7WE	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			276556	10/27/22 15:26	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-50A

Lab Sample ID: 570-114304-14

Date Collected: 10/21/22 09:01
Matrix: Solid
Date Received: 10/21/22 15:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.01 g	10 mL	276108	10/27/22 13:23	UM1W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	277703	11/01/22 12:18	J7WE	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			276556	10/27/22 15:26	B4QL	EET CAL 4
	Instrument ID: MOI2									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-3

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-3

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-114304-11	SS-Soil-4	Solid	10/20/22 14:07	10/21/22 15:03
570-114304-14	Unit-2-LT-50A	Solid	10/21/22 09:01	10/21/22 15:03

Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Thursday, October 27, 2022 11:41 AM
To: Patel, Virendra
Cc: Matthew Nelson
Subject: RE: Eurofins Calscience report and EDD files from 570-114304-1 Etiwanda / 3653.0001L000

EXTERNAL EMAIL*

Hi Virendra,

Please have the lab release and analyze the following samples:

- Unit-2-LT-50A
- Unit-2-LT-40E
- SS-Soil-4

Thank you,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Thursday, October 27, 2022 7:46 AM
To: Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>; Patel Virendra <Virendra.Patel@et.eurofinsus.com>
Subject: Eurofins Calscience report and EDD files from 570-114304-1 Etiwanda / 3653.0001L000
Importance: High

This message originated outside your organization. Please use caution!

Hello,

Attached please find the report and EDD files for job 570-114304-1; Etiwanda / 3653.0001L000

72 HR RUSH was not met, results are being sent on 96 HR RUSH (10% mark-up), rush surcharges have been adjusted accordingly. Our apologies for the delay.

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [570-381404]
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

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Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Thursday, October 27, 2022 2:41 PM
To: Patel, Virendra
Cc: Matthew Nelson
Subject: RE: Eurofins Calscience sample confirmation files from 570-114304-3 Etiwanda / 3653.0001L000

EXTERNAL EMAIL*

Hi Virendra,

I'm sorry, I made a mistake. We had already directed the lab to release and analyze sample Unit-2-LT-40E, and the results were received today.

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Thursday, October 27, 2022 11:56 AM
To: Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>
Subject: Eurofins Calscience sample confirmation files from 570-114304-3 Etiwanda / 3653.0001L000

This message originated outside your organization. Please use caution!

Hello,

Attached please find the sample confirmation files for job 570-114304-3; Etiwanda / 3653.0001L000

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience

Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [570-381577]
Attachments: 3

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2841 Dow Avenue, Suite 100 Tustin CA 92780-7211 • (714) 895-5494

570-114304 Chain of Custody

114304

CHAIN OF CUSTODY RECORD

DATE: 10-20-2022

PAGE: 1 OF 3

LABORATORY CLIENT: Pour Associates, Inc.

ADDRESS: 5150 E. PCH, Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL.

E-MAIL.

CLIENT PROJECT NAME / NUMBER: Edwards / 3653.00014000

PO NO: 57008787

PROJECT CONTACT: Matthew Nelson, Mark Nyhuis, Lauren

SAMPLER(S) (PRINT): Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):

☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID | ECI PROJECT NO | LOG CODE.

SPECIAL INSTRUCTIONS.

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Hold			
1	Unit-2-SST-SD-GB-SW-45A	10-20-22	1201	asphalt	1																		X			
2	Unit-2-SST-SD-GB-SW-45B		1210		1																		X			
3	Unit-2-SST-SD-GB-SW-45C		1217		1																		X			
4	Unit-2-SST-SD-W-SW-45D		1228		1																		X			
5	Unit-2-SST-SD-W-SW-45E		1237		1																		X			
6	Unit-2-SST-SD-W-SW-45F		1246		1																		X			
7	Unit-2-SST-SD-W-SW-45G		1258		1																		X			
8	SS-Soil-1		1343	Soil	1														X							
9	SS-Soil-2		1352		1														X							
10	SS-Soil-3		1400		1														X							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Ian Cross	EC	10-21-2022	15.03
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.

3.5/33 soil

01/28/22 Revision

114304

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CHAIN OF CUSTODY RECORD

DATE: 10-20-22

PAGE: 2 OF 3

2841 Dow Avenue, Suite 100 Tustin CA 92780-7211 • (714) 895-5494

LABORATORY CLIENT: Roux Associates, Inc.

ADDRESS: 5150 E. Pacific Coast Hwy, Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL. E-MAIL.

CLIENT PROJECT NAME / NUMBER: Etiwanda / 3653.00016000

PO NO

PROJECT CONTACT: Matthew Nelson, Mark Nishibayashi

SAMPLER(S): (PRINT) Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID. | ECI PROJECT NO | LOG CODE:

SPECIAL INSTRUCTIONS.

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Hold			
11	SS-Soil-4	10-20-22	1407	Soil	1																		X			
12	Unit-2-LT-45C	10-21-22	0841	Soil	1																		X			
13	Unit-2-LT-40E		0850	Soil	1																		X			
14	Unit-2-LT-50A		0901	Concrete	1																		X			
15	Unit-2-LT-50B		0912	"	1														X							
16	Unit-2-LT-45D		0926	"	1														X							
17	Pad-A-1		0955	"	1														X							
18	Pad-A-2		0947	"	1														X							
19	Pad-B-1		1007	"	1														X							
20	Pad-C-1		1020	"	1														X							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Ian Cross	EC	10-21-2022	15:03
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.

01/28/22 Revision

114304

eurofins | Calscience

2841 Dow Avenue Suite 100 Tustin CA 92780-7211 • (714) 895-5494

CHAIN OF CUSTODY RECORD

DATE: 10-21-2022

PAGE: 3 OF 3

LABORATORY CLIENT: Rourk Associates

ADDRESS: 5150 E. Pacific Coast Hwy, Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL.

E-MAIL.

CLIENT PROJECT NAME / NUMBER.

PO NO

PROJECT CONTACT:

SAMPLER(S) (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD").

☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF

GLOBAL ID:

ECI PROJECT NO

LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☒ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6				
21	Pad-A-2-D	10-21-22	0947	Concrete	1									☒					X		☒					
22	Pad-D-1		1028	"	1														X							
23	Pad-E-1		1034	"	1														X							
24	Pad-F-1		1042	"	1														X							
25	Pad-F-2		1050	"	1														X							
26	Pad-F-2-D		1050	"	1														X							

Relinquished by: (Signature) Jim Cron	Received by: (Signature/Affiliation) AC EC	Date: 10-21-2022	Time: 15:03
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

01/28/22 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-114304-3

Login Number: 114304
List Number: 1
Creator: Cortez Diaz, Antonio

List Source: Eurofins Calscience

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

eurofins | Environment Testing



ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-114304-4
Client Project/Site: Etiwanda / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
11/3/2022 2:12:14 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-4

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

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

Case Narrative

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-4

Job ID: 570-114304-4

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-114304-4

Comments
No additional comments.

Receipt
The samples were received on 10/21/2022 3:03 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method Moisture: The following sample was received outside of holding time: Unit-2-LT-45C (570-114304-12).

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

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-4

Client Sample ID: Unit-2-LT-45C

Lab Sample ID: 570-114304-12

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-4

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-45C
Date Collected: 10/21/22 08:41
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		55		ug/Kg	☼	10/29/22 09:26	11/01/22 03:15	1
Aroclor-1221	ND		55		ug/Kg	☼	10/29/22 09:26	11/01/22 03:15	1
Aroclor-1232	ND		55		ug/Kg	☼	10/29/22 09:26	11/01/22 03:15	1
Aroclor-1242	ND		55		ug/Kg	☼	10/29/22 09:26	11/01/22 03:15	1
Aroclor-1248	ND		55		ug/Kg	☼	10/29/22 09:26	11/01/22 03:15	1
Aroclor-1254	ND		55		ug/Kg	☼	10/29/22 09:26	11/01/22 03:15	1
Aroclor-1260	ND		55		ug/Kg	☼	10/29/22 09:26	11/01/22 03:15	1
Aroclor-1262	ND		55		ug/Kg	☼	10/29/22 09:26	11/01/22 03:15	1
Aroclor-1268	ND		55		ug/Kg	☼	10/29/22 09:26	11/01/22 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*98*		*24 - 136*	*10/29/22 09:26*	*11/01/22 03:15*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*37 - 135*	*10/29/22 09:26*	*11/01/22 03:15*	*1*

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-4

General Chemistry

Client Sample ID: Unit-2-LT-45C
Date Collected: 10/21/22 08:41
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.9	H	0.1		%			11/02/22 17:16	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-4

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-114304-12	Unit-2-LT-45C	98	98
570-114304-12 MS	Unit-2-LT-45C	100	101
570-114304-12 MSD	Unit-2-LT-45C	95	101
LCS 570-277029/2-A	Lab Control Sample	96	109
LCSD 570-277029/3-A	Lab Control Sample Dup	94	112
MB 570-277029/1-A	Method Blank	90	107

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-277029/1-A
Matrix: Solid
Analysis Batch: 277312

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 277029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		10/29/22 09:26	10/31/22 22:27	1
Aroclor-1221	ND		50		ug/Kg		10/29/22 09:26	10/31/22 22:27	1
Aroclor-1232	ND		50		ug/Kg		10/29/22 09:26	10/31/22 22:27	1
Aroclor-1242	ND		50		ug/Kg		10/29/22 09:26	10/31/22 22:27	1
Aroclor-1248	ND		50		ug/Kg		10/29/22 09:26	10/31/22 22:27	1
Aroclor-1254	ND		50		ug/Kg		10/29/22 09:26	10/31/22 22:27	1
Aroclor-1260	ND		50		ug/Kg		10/29/22 09:26	10/31/22 22:27	1
Aroclor-1262	ND		50		ug/Kg		10/29/22 09:26	10/31/22 22:27	1
Aroclor-1268	ND		50		ug/Kg		10/29/22 09:26	10/31/22 22:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*90*		*24 - 136*	*10/29/22 09:26*	*10/31/22 22:27*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*37 - 135*	*10/29/22 09:26*	*10/31/22 22:27*	*1*

Lab Sample ID: LCS 570-277029/2-A
Matrix: Solid
Analysis Batch: 277312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 277029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	102.2		ug/Kg		102	46 - 131
Aroclor-1260	100	121.6		ug/Kg		122	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*96*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*109*		*37 - 135*

Lab Sample ID: LCSD 570-277029/3-A
Matrix: Solid
Analysis Batch: 277312

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 277029

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	101.0		ug/Kg		101	46 - 131	1	32
Aroclor-1260	100	123.1		ug/Kg		123	40 - 150	1	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*94*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*112*		*37 - 135*

Lab Sample ID: 570-114304-12 MS
Matrix: Solid
Analysis Batch: 277312

Client Sample ID: Unit-2-LT-45C
Prep Type: Total/NA
Prep Batch: 277029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		110	117.7		ug/Kg	☼	107	29 - 174
Aroclor-1260	ND		110	194.8		ug/Kg	☼	178	20 - 180

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

Lab Sample ID: 570-114304-12 MS
Matrix: Solid
Analysis Batch: 277312

Client Sample ID: Unit-2-LT-45C
Prep Type: Total/NA
Prep Batch: 277029

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*100*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*101*		*37 - 135*

Lab Sample ID: 570-114304-12 MSD
Matrix: Solid
Analysis Batch: 277312

Client Sample ID: Unit-2-LT-45C
Prep Type: Total/NA
Prep Batch: 277029

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1260	ND		110	174.0		ug/Kg	☼	159	20 - 180	11	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*95*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*101*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-114923-A-3 DU
Matrix: Solid
Analysis Batch: 278155

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	33.2		32.9		%		0.9	10

QC Association Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-4

GC Semi VOA

Prep Batch: 277029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114304-12	Unit-2-LT-45C	Total/NA	Solid	3540C	
MB 570-277029/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-277029/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-277029/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-114304-12 MS	Unit-2-LT-45C	Total/NA	Solid	3540C	
570-114304-12 MSD	Unit-2-LT-45C	Total/NA	Solid	3540C	

Analysis Batch: 277312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114304-12	Unit-2-LT-45C	Total/NA	Solid	8082	277029
MB 570-277029/1-A	Method Blank	Total/NA	Solid	8082	277029
LCS 570-277029/2-A	Lab Control Sample	Total/NA	Solid	8082	277029
LCSD 570-277029/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	277029
570-114304-12 MS	Unit-2-LT-45C	Total/NA	Solid	8082	277029
570-114304-12 MSD	Unit-2-LT-45C	Total/NA	Solid	8082	277029

General Chemistry

Analysis Batch: 278155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114304-12	Unit-2-LT-45C	Total/NA	Solid	Moisture	
570-114923-A-3 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-4

Client Sample ID: Unit-2-LT-45C
Date Collected: 10/21/22 08:41
Date Received: 10/21/22 15:03

Lab Sample ID: 570-114304-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.65 g	10 mL	277029	10/29/22 09:26	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	277312	11/01/22 03:15	UJ3K	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			278155	11/02/22 17:16	B4QL	EET CAL 4
	Instrument ID: MOI4									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-4

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-4

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda / 3653.0001L000

Job ID: 570-114304-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-114304-12	Unit-2-LT-45C	Solid	10/21/22 08:41	10/21/22 15:03

Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Wednesday, November 2, 2022 11:48 AM
To: Patel, Virendra
Cc: Matthew Nelson
Subject: RE: Eurofins Calscience sample confirmation files from 570-114304-4 Etiwanda / 3653.0001L000

EXTERNAL EMAIL*

Hi Virendra,

Rush TAT (24-hr, if available). Yes, please release for moisture analysis as well.

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Patel, Virendra <Virendra.Patel@et.eurofinsus.com>
Sent: Wednesday, November 2, 2022 11:37 AM
To: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Cc: Matthew Nelson <mnelson@rouxinc.com>
Subject: RE: Eurofins Calscience sample confirmation files from 570-114304-4 Etiwanda / 3653.0001L000

This message originated outside your organization. Please use caution!

What TAT and release moisture?

Best Regards,

Virendra Patel
Project Manager

Eurofins Environment Testing Southwest, LLC
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone: 714-895 5494
Direct: 657-210-6327
Mobile: 714-887-9901

Virendra.Patel@ET.EurofinsUS.com
www.EurofinsUS.com/Env

Follow Us! Facebook | LinkedIn

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Wednesday, November 2, 2022 11:09 AM
To: Patel, Virendra <Virendra.Patel@et.eurofinsus.com>
Cc: Matthew Nelson <mnelson@rouxinc.com>
Subject: RE: Eurofins Calscience sample confirmation files from 570-114304-4 Etiwanda / 3653.0001L000

EXTERNAL EMAIL*

Hi Virendra,

Will you please have the lab release and analyze the extract for sample ID: Unit-2-LT-45C.

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Friday, October 28, 2022 9:41 AM
To: Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>
Subject: Eurofins Calscience sample confirmation files from 570-114304-4 Etiwanda / 3653.0001L000

This message originated outside your organization. Please use caution!

Hello,

Attached please find the sample confirmation files for job 570-114304-4; Etiwanda / 3653.0001L000

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env

Reference: [570-382011]
Attachments: 3

> > Bank information has changed, please refer to remittance information on invoice. < <

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Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Friday, October 28, 2022 8:43 AM
To: Patel, Virendra
Cc: Matthew Nelson
Subject: RE: Eurofins Calscience sample confirmation files from 570-114304-3 Etiwanda / 3653.0001L000

EXTERNAL EMAIL*

Hi Virendra,

Will you please have the lab release and perform the Soxhlet extraction (and HOLD extract) for sample Unit-2-LT-45C?

Thank you,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Thursday, October 27, 2022 11:56 AM
To: Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>
Subject: Eurofins Calscience sample confirmation files from 570-114304-3 Etiwanda / 3653.0001L000

This message originated outside your organization. Please use caution!

Hello,

Attached please find the sample confirmation files for job 570-114304-3; Etiwanda / 3653.0001L000

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494

Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env

Reference: [570-381577]
Attachments: 3

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570-114304 Chain of Custody

114304

CHAIN OF CUSTODY RECORD

DATE: 10-20-2022

PAGE: 1 OF 3

LABORATORY CLIENT: Pour Associates, Inc.	CLIENT PROJECT NAME / NUMBER: Edwards / 3653.0001L4000
ADDRESS: 5150 E. PCH, Suite 450	PROJECT CONTACT: Matthew Nelson, Mark Nykiel, Lauren;
CITY: Long Beach STATE: CA ZIP: 90804	SAMPLER(S) (PRINT): Ian Cross
TEL.	E-MAIL.
PO NO: 57008787	

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):

☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID | ECI PROJECT NO | LOG CODE.

SPECIAL INSTRUCTIONS.

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Hold				
1	Unit-2-SST-SO-W-SW-45A	10-20-22	1201	asphalt	1																		X				
2	Unit-2-SST-SO-W-SW-45B		1210		1																		X				
3	Unit-2-SST-SO-W-SW-45C		1217		1																		X				
4	Unit-2-SST-SO-W-SW-45D		1228		1																		X				
5	Unit-2-SST-SO-W-SW-45E		1237		1																		X				
6	Unit-2-SST-SO-W-SW-45F		1246		1																		X				
7	Unit-2-SST-SO-W-SW-45G		1258		1																		X				
8	SS-Soil-1		1343	Soil	1														X								
9	SS-Soil-2		1352		1														X								
10	SS-Soil-3		1400		1														X								

Relinquished by: (Signature) Ian Cross	Received by: (Signature/Affiliation) EC	Date. 10-21-2022	Time. 15.03
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.

3.5/33 soil

01/28/22 Revision

114304

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CHAIN OF CUSTODY RECORD

DATE: 10-20-22

2841 Dow Avenue, Suite 100 Tustin CA 92780-7211 • (714) 895-5494

LABORATORY CLIENT: Roux Associates, Inc.

ADDRESS: 5150 E. Pacific Coast Hwy, Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL. E-MAIL.

CLIENT PROJECT NAME / NUMBER: Etiwanda / 3653.00016000

PO NO

PROJECT CONTACT: Matthew Nelson, Mark Nishibayashi

SAMPLER(S): (PRINT) Ian Cross

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID. | ECI PROJECT NO | LOG CODE:

SPECIAL INSTRUCTIONS.

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Hold			
11	SS-Soil-4	10-20-22	1407	Soil	1														X					X		
12	Unit-2-LT-45C	10-21-22	0841	Soil	1																			X		
13	Unit-2-LT-40E		0850	Soil	1																			X		
14	Unit-2-LT-50A		0901	Concrete	1																			X		
15	Unit-2-LT-50B		0912	"	1														X							
16	Unit-2-LT-45D		0926	"	1														X							
17	Pad-A-1		0955	"	1														X							
18	Pad-A-2		0947	"	1														X							
19	Pad-B-1		1007	"	1														X							
20	Pad-C-1		1020	"	1														X							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Ian Cross	EC	10-21-2022	15:03
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.

01/28/22 Revision

114304

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CHAIN OF CUSTODY RECORD

DATE: 10-21-2022

PAGE: 3 OF 3

2841 Dow Avenue Suite 100 Tustin CA 92780-7211 • (714) 895-5494

LABORATORY CLIENT: Rourk Associates

ADDRESS: 5150 E. Pacific Coast Hwy, Suite 450

CITY: Long Beach STATE: CA ZIP: 90804

TEL.

E-MAIL.

CLIENT PROJECT NAME / NUMBER.

PO NO

PROJECT CONTACT:

SAMPLER(S) (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD").

☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF

GLOBAL ID:

ECI PROJECT NO

LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☒ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6
21	Pad-A-2-D	10-21-22	0947	Concrete	1									☒					X		☒	
22	Pad-D-1		1028	"	1														X			
23	Pad-E-1		1034	"	1														X			
24	Pad-F-1		1042	"	1														X			
25	Pad-F-2		1050	"	1														X			
26	Pad-F-2-D		1050	"	1														X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Jim Crow	AC FC	10-21-2022	15:03
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time.

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Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-114304-4

Login Number: 114304
List Number: 1
Creator: Cortez Diaz, Antonio

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-114921-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
11/1/2022 5:58:20 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-114921-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Job ID: 570-114921-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-114921-1

Comments
No additional comments.

Receipt
The samples were received on 10/27/2022 6:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.5º C.

GC Semi VOA
Method 8082: Batch preparation batch 570-276588 and analytical batch 570-277703 is reported without a matrix spike/matrix spike duplicate (MS/MSD). The batch MS/MSD was originally performed on another client's sample, and this test was on HOLD at client request. This MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.

Method 8082: Surrogate recovery for the following samples were outside control limits: Unit-2-LT-35H (570-114921-1), Unit-2-LT-40G (570-114921-2) and Unit-2-LT-45F (570-114921-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114921-1

Client Sample ID: Unit-2-LT-35H — Lab Sample ID: 570-114921-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254 - DL	2800		660		ug/Kg	10	☼	8082	Total/NA
Aroclor-1260 - DL	3500		660		ug/Kg	10	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-40G — Lab Sample ID: 570-114921-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254 - DL	2500		560		ug/Kg	10	☼	8082	Total/NA
Aroclor-1260 - DL	2100		560		ug/Kg	10	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-45F — Lab Sample ID: 570-114921-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254 - DL	1700		550		ug/Kg	10	☼	8082	Total/NA
Aroclor-1260 - DL	1900		550		ug/Kg	10	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-55B — Lab Sample ID: 570-114921-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	190		56		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-50E — Lab Sample ID: 570-114921-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	440		55		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-55B-DUP — Lab Sample ID: 570-114921-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	120		54		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-35H **Lab Sample ID: 570-114921-1**
Date Collected: 10/27/22 11:10 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		66		ug/Kg	☼	10/27/22 20:55	11/01/22 15:00	1
Aroclor-1221	ND		66		ug/Kg	☼	10/27/22 20:55	11/01/22 15:00	1
Aroclor-1232	ND		66		ug/Kg	☼	10/27/22 20:55	11/01/22 15:00	1
Aroclor-1242	ND		66		ug/Kg	☼	10/27/22 20:55	11/01/22 15:00	1
Aroclor-1248	ND		66		ug/Kg	☼	10/27/22 20:55	11/01/22 15:00	1
Aroclor-1262	ND		66		ug/Kg	☼	10/27/22 20:55	11/01/22 15:00	1
Aroclor-1268	ND		66		ug/Kg	☼	10/27/22 20:55	11/01/22 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*99*		*24 - 136*	*10/27/22 20:55*	*11/01/22 15:00*	*1*
DCB Decachlorobiphenyl (Surr)	*135*		*37 - 135*	*10/27/22 20:55*	*11/01/22 15:00*	*1*

Client Sample ID: Unit-2-LT-40G **Lab Sample ID: 570-114921-2**
Date Collected: 10/27/22 11:19 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 14:42	1
Aroclor-1221	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 14:42	1
Aroclor-1232	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 14:42	1
Aroclor-1242	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 14:42	1
Aroclor-1248	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 14:42	1
Aroclor-1262	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 14:42	1
Aroclor-1268	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*88*		*24 - 136*	*10/27/22 20:55*	*11/01/22 14:42*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*37 - 135*	*10/27/22 20:55*	*11/01/22 14:42*	*1*

Client Sample ID: Unit-2-LT-45F **Lab Sample ID: 570-114921-3**
Date Collected: 10/27/22 11:17 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 14:24	1
Aroclor-1221	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 14:24	1
Aroclor-1232	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 14:24	1
Aroclor-1242	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 14:24	1
Aroclor-1248	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 14:24	1
Aroclor-1262	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 14:24	1
Aroclor-1268	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*99*		*24 - 136*	*10/27/22 20:55*	*11/01/22 14:24*	*1*
DCB Decachlorobiphenyl (Surr)	*105*		*37 - 135*	*10/27/22 20:55*	*11/01/22 14:24*	*1*

Client Sample ID: Unit-2-LT-55B **Lab Sample ID: 570-114921-4**
Date Collected: 10/27/22 11:26 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 01:49	1
Aroclor-1221	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 01:49	1
Aroclor-1232	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 01:49	1

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: Unit-2-LT-55B **Lab Sample ID: 570-114921-4**
Date Collected: 10/27/22 11:26 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1242	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 01:49	1
Aroclor-1248	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 01:49	1
Aroclor-1254	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 01:49	1
Aroclor-1260	**190**		56		ug/Kg	☼	10/27/22 20:55	11/01/22 01:49	1
Aroclor-1262	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 01:49	1
Aroclor-1268	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*101*		*24 - 136*	*10/27/22 20:55*	*11/01/22 01:49*	*1*
DCB Decachlorobiphenyl (Surr)	*116*		*37 - 135*	*10/27/22 20:55*	*11/01/22 01:49*	*1*

Client Sample ID: Unit-2-LT-50E **Lab Sample ID: 570-114921-5**
Date Collected: 10/27/22 11:25 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 02:11	1
Aroclor-1221	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 02:11	1
Aroclor-1232	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 02:11	1
Aroclor-1242	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 02:11	1
Aroclor-1248	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 02:11	1
Aroclor-1254	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 02:11	1
Aroclor-1260	**440**		55		ug/Kg	☼	10/27/22 20:55	11/01/22 02:11	1
Aroclor-1262	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 02:11	1
Aroclor-1268	ND		55		ug/Kg	☼	10/27/22 20:55	11/01/22 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*100*		*24 - 136*	*10/27/22 20:55*	*11/01/22 02:11*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*37 - 135*	*10/27/22 20:55*	*11/01/22 02:11*	*1*

Client Sample ID: Unit-2-LT-55B-DUP **Lab Sample ID: 570-114921-6**
Date Collected: 10/27/22 11:26 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		54		ug/Kg	☼	10/27/22 20:55	11/01/22 02:32	1
Aroclor-1221	ND		54		ug/Kg	☼	10/27/22 20:55	11/01/22 02:32	1
Aroclor-1232	ND		54		ug/Kg	☼	10/27/22 20:55	11/01/22 02:32	1
Aroclor-1242	ND		54		ug/Kg	☼	10/27/22 20:55	11/01/22 02:32	1
Aroclor-1248	ND		54		ug/Kg	☼	10/27/22 20:55	11/01/22 02:32	1
Aroclor-1254	ND		54		ug/Kg	☼	10/27/22 20:55	11/01/22 02:32	1
Aroclor-1260	**120**		54		ug/Kg	☼	10/27/22 20:55	11/01/22 02:32	1
Aroclor-1262	ND		54		ug/Kg	☼	10/27/22 20:55	11/01/22 02:32	1
Aroclor-1268	ND		54		ug/Kg	☼	10/27/22 20:55	11/01/22 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*107*		*24 - 136*	*10/27/22 20:55*	*11/01/22 02:32*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*37 - 135*	*10/27/22 20:55*	*11/01/22 02:32*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: Unit-2-LT-35H **Lab Sample ID: 570-114921-1**
Date Collected: 10/27/22 11:10 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1254	2800		660		ug/Kg	☼	10/27/22 20:55	11/01/22 16:12	10
Aroclor-1260	3500		660		ug/Kg	☼	10/27/22 20:55	11/01/22 16:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*146*	*S1+*	*24 - 136*	*10/27/22 20:55*	*11/01/22 16:12*	*10*
DCB Decachlorobiphenyl (Surr)	*153*	*S1+*	*37 - 135*	*10/27/22 20:55*	*11/01/22 16:12*	*10*

Client Sample ID: Unit-2-LT-40G **Lab Sample ID: 570-114921-2**
Date Collected: 10/27/22 11:19 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1254	2500		560		ug/Kg	☼	10/27/22 20:55	11/01/22 16:30	10
Aroclor-1260	2100		560		ug/Kg	☼	10/27/22 20:55	11/01/22 16:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*119*		*24 - 136*	*10/27/22 20:55*	*11/01/22 16:30*	*10*
DCB Decachlorobiphenyl (Surr)	*158*	*S1+*	*37 - 135*	*10/27/22 20:55*	*11/01/22 16:30*	*10*

Client Sample ID: Unit-2-LT-45F **Lab Sample ID: 570-114921-3**
Date Collected: 10/27/22 11:17 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1254	1700		550		ug/Kg	☼	10/27/22 20:55	11/01/22 16:48	10
Aroclor-1260	1900		550		ug/Kg	☼	10/27/22 20:55	11/01/22 16:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*121*		*24 - 136*	*10/27/22 20:55*	*11/01/22 16:48*	*10*
DCB Decachlorobiphenyl (Surr)	*153*	*S1+*	*37 - 135*	*10/27/22 20:55*	*11/01/22 16:48*	*10*

General Chemistry

Client Sample ID: Unit-2-LT-35H **Lab Sample ID: 570-114921-1**
Date Collected: 10/27/22 11:10 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	24.9		0.1		%			10/28/22 11:36	1

Client Sample ID: Unit-2-LT-40G **Lab Sample ID: 570-114921-2**
Date Collected: 10/27/22 11:19 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.0		0.1		%			10/28/22 11:36	1

Client Sample ID: Unit-2-LT-45F **Lab Sample ID: 570-114921-3**
Date Collected: 10/27/22 11:17 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.6		0.1		%			10/28/22 11:36	1

Client Sample ID: Unit-2-LT-55B **Lab Sample ID: 570-114921-4**
Date Collected: 10/27/22 11:26 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.4		0.1		%			10/28/22 11:36	1

Client Sample ID: Unit-2-LT-50E **Lab Sample ID: 570-114921-5**
Date Collected: 10/27/22 11:25 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10		0.1		%			10/28/22 12:07	1

Client Sample ID: Unit-2-LT-55B-DUP **Lab Sample ID: 570-114921-6**
Date Collected: 10/27/22 11:26 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.1		0.1		%			10/28/22 12:07	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114921-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-114921-1	Unit-2-LT-35H	99	135
570-114921-1 - DL	Unit-2-LT-35H	146 S1+	153 S1+
570-114921-2	Unit-2-LT-40G	88	106
570-114921-2 - DL	Unit-2-LT-40G	119	158 S1+
570-114921-3	Unit-2-LT-45F	99	105
570-114921-3 - DL	Unit-2-LT-45F	121	153 S1+
570-114921-4	Unit-2-LT-55B	101	116
570-114921-5	Unit-2-LT-50E	100	78
570-114921-6	Unit-2-LT-55B-DUP	107	97
LCS 570-276588/2-A	Lab Control Sample	71	94
LCSD 570-276588/3-A	Lab Control Sample Dup	110	107
MB 570-276588/1-A	Method Blank	111	105

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114921-1

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

Lab Sample ID: MB 570-276588/1-A
Matrix: Solid
Analysis Batch: 277319

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 276588

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1221	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1232	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1242	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1248	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1254	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1260	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1262	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1268	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*111*		*24 - 136*	*10/27/22 20:55*	*10/31/22 23:20*	*1*
DCB Decachlorobiphenyl (Surr)	*105*		*37 - 135*	*10/27/22 20:55*	*10/31/22 23:20*	*1*

Lab Sample ID: LCS 570-276588/2-A
Matrix: Solid
Analysis Batch: 277319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 276588

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016			100	108.9		ug/Kg		109	46 - 131		
Aroclor-1260			100	115.9		ug/Kg		116	40 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*71*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*94*		*37 - 135*

Lab Sample ID: LCSD 570-276588/3-A
Matrix: Solid
Analysis Batch: 277319

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 276588

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			100	126.9		ug/Kg		127	46 - 131	15	32
Aroclor-1260			100	135.4		ug/Kg		135	40 - 150	15	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*110*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*107*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-114592-C-2 DU
Matrix: Solid
Analysis Batch: 276858

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	5.3			5.5		%				4	10

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 570-114921-4 DU
Client Sample ID: Unit-2-LT-55B
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 276862

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.4			10.1		%				3	10

QC Association Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114921-1

GC Semi VOA

Prep Batch: 276588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114921-1	Unit-2-LT-35H	Total/NA	Solid	3540C	
570-114921-1 - DL	Unit-2-LT-35H	Total/NA	Solid	3540C	
570-114921-2	Unit-2-LT-40G	Total/NA	Solid	3540C	
570-114921-2 - DL	Unit-2-LT-40G	Total/NA	Solid	3540C	
570-114921-3 - DL	Unit-2-LT-45F	Total/NA	Solid	3540C	
570-114921-3	Unit-2-LT-45F	Total/NA	Solid	3540C	
570-114921-4	Unit-2-LT-55B	Total/NA	Solid	3540C	
570-114921-5	Unit-2-LT-50E	Total/NA	Solid	3540C	
570-114921-6	Unit-2-LT-55B-DUP	Total/NA	Solid	3540C	
MB 570-276588/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-276588/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-276588/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 277319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114921-4	Unit-2-LT-55B	Total/NA	Solid	8082	276588
570-114921-5	Unit-2-LT-50E	Total/NA	Solid	8082	276588
570-114921-6	Unit-2-LT-55B-DUP	Total/NA	Solid	8082	276588
MB 570-276588/1-A	Method Blank	Total/NA	Solid	8082	276588
LCS 570-276588/2-A	Lab Control Sample	Total/NA	Solid	8082	276588
LCSD 570-276588/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	276588

Analysis Batch: 277703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114921-1	Unit-2-LT-35H	Total/NA	Solid	8082	276588
570-114921-1 - DL	Unit-2-LT-35H	Total/NA	Solid	8082	276588
570-114921-2	Unit-2-LT-40G	Total/NA	Solid	8082	276588
570-114921-2 - DL	Unit-2-LT-40G	Total/NA	Solid	8082	276588
570-114921-3	Unit-2-LT-45F	Total/NA	Solid	8082	276588
570-114921-3 - DL	Unit-2-LT-45F	Total/NA	Solid	8082	276588

General Chemistry

Analysis Batch: 276858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114921-5	Unit-2-LT-50E	Total/NA	Solid	Moisture	
570-114921-6	Unit-2-LT-55B-DUP	Total/NA	Solid	Moisture	
570-114592-C-2 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 276862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114921-1	Unit-2-LT-35H	Total/NA	Solid	Moisture	
570-114921-2	Unit-2-LT-40G	Total/NA	Solid	Moisture	
570-114921-3	Unit-2-LT-45F	Total/NA	Solid	Moisture	
570-114921-4	Unit-2-LT-55B	Total/NA	Solid	Moisture	
570-114921-4 DU	Unit-2-LT-55B	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114921-1

Client Sample ID: Unit-2-LT-35H

Lab Sample ID: 570-114921-1

Date Collected: 10/27/22 11:10
Date Received: 10/27/22 18:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.05 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	277703	11/01/22 15:00	J7WE	EET CAL 4
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.05 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082	DL	10	1 mL	1 mL	277703	11/01/22 16:12	J7WE	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			276862	10/28/22 11:36	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-40G

Lab Sample ID: 570-114921-2

Date Collected: 10/27/22 11:19
Date Received: 10/27/22 18:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.14 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	277703	11/01/22 14:42	J7WE	EET CAL 4
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.14 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082	DL	10	1 mL	1 mL	277703	11/01/22 16:30	J7WE	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			276862	10/28/22 11:36	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-45F

Lab Sample ID: 570-114921-3

Date Collected: 10/27/22 11:17
Date Received: 10/27/22 18:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.14 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	277703	11/01/22 14:24	J7WE	EET CAL 4
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.14 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082	DL	10	1 mL	1 mL	277703	11/01/22 16:48	J7WE	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			276862	10/28/22 11:36	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-55B

Lab Sample ID: 570-114921-4

Date Collected: 10/27/22 11:26
Date Received: 10/27/22 18:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.03 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	277319	11/01/22 01:49	UJ3K	EET CAL 4
	Instrument ID: GC66									

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114921-1

Client Sample ID: Unit-2-LT-55B

Lab Sample ID: 570-114921-4

Date Collected: 10/27/22 11:26
Date Received: 10/27/22 18:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			276862	10/28/22 11:36	B4QL	EET CAL 4

Client Sample ID: Unit-2-LT-50E

Lab Sample ID: 570-114921-5

Date Collected: 10/27/22 11:25
Date Received: 10/27/22 18:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.09 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	277319	11/01/22 02:11	UJ3K	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			276858	10/28/22 12:07	B4QL	EET CAL 4
	Instrument ID: MOI4									

Client Sample ID: Unit-2-LT-55B-DUP

Lab Sample ID: 570-114921-6

Date Collected: 10/27/22 11:26
Date Received: 10/27/22 18:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.14 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	277319	11/01/22 02:32	UJ3K	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			276858	10/28/22 12:07	B4QL	EET CAL 4
	Instrument ID: MOI4									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc.
Job ID: 570-114921-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc. Job ID: 570-114921-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114921-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-114921-1	Unit-2-LT-35H	Solid	10/27/22 11:10	10/27/22 18:00
570-114921-2	Unit-2-LT-40G	Solid	10/27/22 11:19	10/27/22 18:00
570-114921-3	Unit-2-LT-45F	Solid	10/27/22 11:17	10/27/22 18:00
570-114921-4	Unit-2-LT-55B	Solid	10/27/22 11:26	10/27/22 18:00
570-114921-5	Unit-2-LT-50E	Solid	10/27/22 11:25	10/27/22 18:00
570-114921-6	Unit-2-LT-55B-DUP	Solid	10/27/22 11:26	10/27/22 18:00

eurofins | Calscience

7440 Lincoln Way Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus com or call us

570-114921 Chain of Custody

114921
CHAIN OF CUSTODY RECORD

DATE: 10-27-22

PAGE: 1 OF 1 3 D2

LABORATORY CLIENT: Roux Associates, Inc

ADDRESS: 5150 Pacific Coast Hwy, Suite 450

CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804

TEL. (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL. mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

PO NO:

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Daniel Zaragoza / Travis Clow

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD').

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS
- ECI # 570 08787
- Report in dry weight

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540 C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Moisture
1	Unit-2-LT-35H	10-27-22	1110	S	1	X													X				X
2	Unit-2-LT-40G		1119																				
3	Unit-2-LT-45F		1117																				
4	Unit 2-LT-55B		1126																				
5	Unit-2-LT-50E		1125																				
6	Unit-2-LT-55B-DUP		1126																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation) E. McDaniel	Date: 10/27/22	Time: 4:00
Relinquished by: (Signature) E. McDaniel	Received by: (Signature/Affiliation)	Date: 10/27/22	Time: 1800
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time

4-7 | 4-5 SCM

06/02/14 Revision

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11/1/2022

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-114921-1

Login Number: 114921
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-114922-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
11/3/2022 5:20:24 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-114922-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-114922-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114922-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-114922-1

Comments
No additional comments.

Receipt
The samples were received on 10/27/2022 6:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.5º C.

GC Semi VOA
Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-276588 and analytical batch 570-277703 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082: Surrogate recovery for the following samples were outside control limits: (570-114922-A-1-A MS) and (570-114922-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114922-1

Client Sample ID: Unit-2-LT-30I — Lab Sample ID: 570-114922-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260 - DL	1900		300		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-35G — Lab Sample ID: 570-114922-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	530		56		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	490		56		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-40F — Lab Sample ID: 570-114922-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	460		60		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	840		60		ug/Kg	1	☼	8082	Total/NA
Aroclor-1268	310		60		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-45E — Lab Sample ID: 570-114922-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	580		55		ug/Kg	1	☼	8082	Total/NA
Aroclor-1268	580		55		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260 - DL	1100		280		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-50C — Lab Sample ID: 570-114922-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	79		53		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-30I **Lab Sample ID: 570-114922-1**
Date Collected: 10/27/22 11:01 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	F1	60		ug/Kg	☼	10/27/22 20:55	11/01/22 14:06	1
Aroclor-1221	ND		60		ug/Kg	☼	10/27/22 20:55	11/01/22 14:06	1
Aroclor-1232	ND		60		ug/Kg	☼	10/27/22 20:55	11/01/22 14:06	1
Aroclor-1242	ND		60		ug/Kg	☼	10/27/22 20:55	11/01/22 14:06	1
Aroclor-1248	ND		60		ug/Kg	☼	10/27/22 20:55	11/01/22 14:06	1
Aroclor-1254	ND		60		ug/Kg	☼	10/27/22 20:55	11/01/22 14:06	1
Aroclor-1262	ND		60		ug/Kg	☼	10/27/22 20:55	11/01/22 14:06	1
Aroclor-1268	ND		60		ug/Kg	☼	10/27/22 20:55	11/01/22 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*92*		*24 - 136*	*10/27/22 20:55*	*11/01/22 14:06*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*37 - 135*	*10/27/22 20:55*	*11/01/22 14:06*	*1*

Client Sample ID: Unit-2-LT-35G **Lab Sample ID: 570-114922-2**
Date Collected: 10/27/22 11:09 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 18:46	1
Aroclor-1221	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 18:46	1
Aroclor-1232	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 18:46	1
Aroclor-1242	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 18:46	1
Aroclor-1248	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 18:46	1
Aroclor-1254	**530**		56		ug/Kg	☼	10/27/22 20:55	11/01/22 18:46	1
Aroclor-1260	**490**		56		ug/Kg	☼	10/27/22 20:55	11/01/22 18:46	1
Aroclor-1262	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 18:46	1
Aroclor-1268	ND		56		ug/Kg	☼	10/27/22 20:55	11/01/22 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*74*		*24 - 136*	*10/27/22 20:55*	*11/01/22 18:46*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 135*	*10/27/22 20:55*	*11/01/22 18:46*	*1*

Client Sample ID: Unit-2-LT-40F **Lab Sample ID: 570-114922-3**
Date Collected: 10/27/22 12:54 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		60		ug/Kg	☼	10/27/22 20:55	11/03/22 13:02	1
Aroclor-1221	ND		60		ug/Kg	☼	10/27/22 20:55	11/03/22 13:02	1
Aroclor-1232	ND		60		ug/Kg	☼	10/27/22 20:55	11/03/22 13:02	1
Aroclor-1242	ND		60		ug/Kg	☼	10/27/22 20:55	11/03/22 13:02	1
Aroclor-1248	ND		60		ug/Kg	☼	10/27/22 20:55	11/03/22 13:02	1
Aroclor-1254	**460**		60		ug/Kg	☼	10/27/22 20:55	11/03/22 13:02	1
Aroclor-1260	**840**		60		ug/Kg	☼	10/27/22 20:55	11/03/22 13:02	1
Aroclor-1262	ND		60		ug/Kg	☼	10/27/22 20:55	11/03/22 13:02	1
Aroclor-1268	**310**		60		ug/Kg	☼	10/27/22 20:55	11/03/22 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*88*		*24 - 136*	*10/27/22 20:55*	*11/03/22 13:02*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 135*	*10/27/22 20:55*	*11/03/22 13:02*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-45E **Lab Sample ID: 570-114922-4**
Date Collected: 10/27/22 12:45 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		55		ug/Kg	☼	10/27/22 20:55	11/03/22 13:23	1
Aroclor-1221	ND		55		ug/Kg	☼	10/27/22 20:55	11/03/22 13:23	1
Aroclor-1232	ND		55		ug/Kg	☼	10/27/22 20:55	11/03/22 13:23	1
Aroclor-1242	ND		55		ug/Kg	☼	10/27/22 20:55	11/03/22 13:23	1
Aroclor-1248	ND		55		ug/Kg	☼	10/27/22 20:55	11/03/22 13:23	1
Aroclor-1254	**580**		55		ug/Kg	☼	10/27/22 20:55	11/03/22 13:23	1
Aroclor-1262	ND		55		ug/Kg	☼	10/27/22 20:55	11/03/22 13:23	1
Aroclor-1268	**580**		55		ug/Kg	☼	10/27/22 20:55	11/03/22 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*	*10/27/22 20:55*	*11/03/22 13:23*	*1*
DCB Decachlorobiphenyl (Surr)	*133*		*37 - 135*	*10/27/22 20:55*	*11/03/22 13:23*	*1*

Client Sample ID: Unit-2-LT-50C **Lab Sample ID: 570-114922-5**
Date Collected: 10/27/22 12:37 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		53		ug/Kg	☼	10/27/22 20:55	11/01/22 19:50	1
Aroclor-1221	ND		53		ug/Kg	☼	10/27/22 20:55	11/01/22 19:50	1
Aroclor-1232	ND		53		ug/Kg	☼	10/27/22 20:55	11/01/22 19:50	1
Aroclor-1242	ND		53		ug/Kg	☼	10/27/22 20:55	11/01/22 19:50	1
Aroclor-1248	ND		53		ug/Kg	☼	10/27/22 20:55	11/01/22 19:50	1
Aroclor-1254	ND		53		ug/Kg	☼	10/27/22 20:55	11/01/22 19:50	1
Aroclor-1260	**79**		53		ug/Kg	☼	10/27/22 20:55	11/01/22 19:50	1
Aroclor-1262	ND		53		ug/Kg	☼	10/27/22 20:55	11/01/22 19:50	1
Aroclor-1268	ND		53		ug/Kg	☼	10/27/22 20:55	11/01/22 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*84*		*24 - 136*	*10/27/22 20:55*	*11/01/22 19:50*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*37 - 135*	*10/27/22 20:55*	*11/01/22 19:50*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: Unit-2-LT-30I **Lab Sample ID: 570-114922-1**
Date Collected: 10/27/22 11:01 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	1900		300		ug/Kg	☼	10/27/22 20:55	11/01/22 15:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*107*		*24 - 136*	*10/27/22 20:55*	*11/01/22 15:54*	*5*
DCB Decachlorobiphenyl (Surr)	*105*		*37 - 135*	*10/27/22 20:55*	*11/01/22 15:54*	*5*

Client Sample ID: Unit-2-LT-45E **Lab Sample ID: 570-114922-4**
Date Collected: 10/27/22 12:45 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	1100		280		ug/Kg	☼	10/27/22 20:55	11/03/22 14:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*	*10/27/22 20:55*	*11/03/22 14:36*	*5*
DCB Decachlorobiphenyl (Surr)	*101*		*37 - 135*	*10/27/22 20:55*	*11/03/22 14:36*	*5*

Client: Roux Associates, Inc.
Job ID: 570-114922-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

General Chemistry

Client Sample ID: Unit-2-LT-30I
Date Collected: 10/27/22 11:01
Date Received: 10/27/22 18:00
Lab Sample ID: 570-114922-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.1		0.1		%			11/02/22 17:16	1

Client Sample ID: Unit-2-LT-35G
Date Collected: 10/27/22 11:09
Date Received: 10/27/22 18:00
Lab Sample ID: 570-114922-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.0		0.1		%			11/02/22 17:16	1

Client Sample ID: Unit-2-LT-40F
Date Collected: 10/27/22 12:54
Date Received: 10/27/22 18:00
Lab Sample ID: 570-114922-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.9		0.1		%			11/02/22 17:16	1

Client Sample ID: Unit-2-LT-45E
Date Collected: 10/27/22 12:45
Date Received: 10/27/22 18:00
Lab Sample ID: 570-114922-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.5		0.1		%			11/02/22 17:16	1

Client Sample ID: Unit-2-LT-50C
Date Collected: 10/27/22 12:37
Date Received: 10/27/22 18:00
Lab Sample ID: 570-114922-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.8		0.1		%			11/02/22 17:16	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114922-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-114922-1	Unit-2-LT-30I	92	103
570-114922-1 - DL	Unit-2-LT-30I	107	105
570-114922-1 MS	Unit-2-LT-30I	124	154 S1+
570-114922-1 MSD	Unit-2-LT-30I	129	163 S1+
570-114922-2	Unit-2-LT-35G	74	92
570-114922-3	Unit-2-LT-40F	88	95
570-114922-4	Unit-2-LT-45E	85	133
570-114922-4 - DL	Unit-2-LT-45E	85	101
570-114922-5	Unit-2-LT-50C	84	94
LCS 570-276588/2-A	Lab Control Sample	71	94
LCSD 570-276588/3-A	Lab Control Sample Dup	110	107
MB 570-276588/1-A	Method Blank	111	105

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-276588/1-A

Matrix: Solid
Analysis Batch: 277319

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 276588

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1221	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1232	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1242	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1248	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1254	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1260	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1262	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1
Aroclor-1268	ND		50		ug/Kg		10/27/22 20:55	10/31/22 23:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*111*		*24 - 136*	*10/27/22 20:55*	*10/31/22 23:20*	*1*
DCB Decachlorobiphenyl (Surr)	*105*		*37 - 135*	*10/27/22 20:55*	*10/31/22 23:20*	*1*

Lab Sample ID: LCS 570-276588/2-A

Matrix: Solid
Analysis Batch: 277319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 276588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	108.9		ug/Kg		109	46 - 131
Aroclor-1260	100	115.9		ug/Kg		116	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*71*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*94*		*37 - 135*

Lab Sample ID: LCSD 570-276588/3-A

Matrix: Solid
Analysis Batch: 277319

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 276588

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	126.9		ug/Kg		127	46 - 131	15	32
Aroclor-1260	100	135.4		ug/Kg		135	40 - 150	15	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*110*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*107*		*37 - 135*

Lab Sample ID: 570-114922-1 MS

Matrix: Solid
Analysis Batch: 277703

Client Sample ID: Unit-2-LT-30I
Prep Type: Total/NA
Prep Batch: 276588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND	F1	120	200.0		ug/Kg	☼	166	29 - 174
Aroclor-1260	1800		120	1900	4	ug/Kg	☼	84	20 - 180

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

Lab Sample ID: 570-114922-1 MS **Client Sample ID: Unit-2-LT-30I**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 277703 **Prep Batch: 276588**

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*124*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*154*	*S1+*	*37 - 135*

Lab Sample ID: 570-114922-1 MSD **Client Sample ID: Unit-2-LT-30I**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 277703 **Prep Batch: 276588**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND	F1	120	239.4	F1	ug/Kg	☼	199	29 - 174	18	40
Aroclor-1260	1800		120	1904	4	ug/Kg	☼	87	20 - 180	0	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*129*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*163*	*S1+*	*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-114923-A-3 DU **Client Sample ID: Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 278155

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	33.2		32.9		%		0.9	10

QC Association Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114922-1

GC Semi VOA

Prep Batch: 276588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114922-1	Unit-2-LT-30I	Total/NA	Solid	3540C	
570-114922-1 - DL	Unit-2-LT-30I	Total/NA	Solid	3540C	
570-114922-2	Unit-2-LT-35G	Total/NA	Solid	3540C	
570-114922-3	Unit-2-LT-40F	Total/NA	Solid	3540C	
570-114922-4	Unit-2-LT-45E	Total/NA	Solid	3540C	
570-114922-4 - DL	Unit-2-LT-45E	Total/NA	Solid	3540C	
570-114922-5	Unit-2-LT-50C	Total/NA	Solid	3540C	
MB 570-276588/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-276588/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-276588/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-114922-1 MS	Unit-2-LT-30I	Total/NA	Solid	3540C	
570-114922-1 MSD	Unit-2-LT-30I	Total/NA	Solid	3540C	

Analysis Batch: 277319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114922-2	Unit-2-LT-35G	Total/NA	Solid	8082	276588
570-114922-5	Unit-2-LT-50C	Total/NA	Solid	8082	276588
MB 570-276588/1-A	Method Blank	Total/NA	Solid	8082	276588
LCS 570-276588/2-A	Lab Control Sample	Total/NA	Solid	8082	276588
LCSD 570-276588/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	276588

Analysis Batch: 277703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114922-1	Unit-2-LT-30I	Total/NA	Solid	8082	276588
570-114922-1 - DL	Unit-2-LT-30I	Total/NA	Solid	8082	276588
570-114922-1 MS	Unit-2-LT-30I	Total/NA	Solid	8082	276588
570-114922-1 MSD	Unit-2-LT-30I	Total/NA	Solid	8082	276588

Analysis Batch: 278270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114922-3	Unit-2-LT-40F	Total/NA	Solid	8082	276588
570-114922-4	Unit-2-LT-45E	Total/NA	Solid	8082	276588
570-114922-4 - DL	Unit-2-LT-45E	Total/NA	Solid	8082	276588

General Chemistry

Analysis Batch: 278155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114922-1	Unit-2-LT-30I	Total/NA	Solid	Moisture	
570-114922-2	Unit-2-LT-35G	Total/NA	Solid	Moisture	
570-114922-3	Unit-2-LT-40F	Total/NA	Solid	Moisture	
570-114922-4	Unit-2-LT-45E	Total/NA	Solid	Moisture	
570-114922-5	Unit-2-LT-50C	Total/NA	Solid	Moisture	
570-114923-A-3 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-114922-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-30I
Lab Sample ID: 570-114922-1
Date Collected: 10/27/22 11:01
Matrix: Solid
Date Received: 10/27/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.01 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	277703	11/01/22 14:06	J7WE	EET CAL 4
	Instrument ID: GC58									
Total/NA	Prep	3540C	DL		20.01 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	277703	11/01/22 15:54	J7WE	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			278155	11/02/22 17:16	B4QL	EET CAL 4
	Instrument ID: MOI4									

Client Sample ID: Unit-2-LT-35G
Lab Sample ID: 570-114922-2
Date Collected: 10/27/22 11:09
Matrix: Solid
Date Received: 10/27/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.12 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	277319	11/01/22 18:46	UJ3K	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			278155	11/02/22 17:16	B4QL	EET CAL 4
	Instrument ID: MOI4									

Client Sample ID: Unit-2-LT-40F
Lab Sample ID: 570-114922-3
Date Collected: 10/27/22 12:54
Matrix: Solid
Date Received: 10/27/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.13 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	278270	11/03/22 13:02	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			278155	11/02/22 17:16	B4QL	EET CAL 4
	Instrument ID: MOI4									

Client Sample ID: Unit-2-LT-45E
Lab Sample ID: 570-114922-4
Date Collected: 10/27/22 12:45
Matrix: Solid
Date Received: 10/27/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.08 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	278270	11/03/22 13:23	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Prep	3540C	DL		20.08 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	278270	11/03/22 14:36	AJ2Q	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			278155	11/02/22 17:16	B4QL	EET CAL 4
	Instrument ID: MOI4									

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-114922-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-50C
Lab Sample ID: 570-114922-5
Date Collected: 10/27/22 12:37
Matrix: Solid
Date Received: 10/27/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.18 g	10 mL	276588	10/27/22 20:55	UM1W	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	277319	11/01/22 19:50	UJ3K	EET CAL 4
	Instrument ID: GC66									
Total/NA	Analysis	Moisture		1			278155	11/02/22 17:16	B4QL	EET CAL 4
	Instrument ID: MOI4									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-114922-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114922-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114922-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-114922-1	Unit-2-LT-30I	Solid	10/27/22 11:01	10/27/22 18:00
570-114922-2	Unit-2-LT-35G	Solid	10/27/22 11:09	10/27/22 18:00
570-114922-3	Unit-2-LT-40F	Solid	10/27/22 12:54	10/27/22 18:00
570-114922-4	Unit-2-LT-45E	Solid	10/27/22 12:45	10/27/22 18:00
570-114922-5	Unit-2-LT-50C	Solid	10/27/22 12:37	10/27/22 18:00

Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Wednesday, November 2, 2022 11:14 AM
To: Patel, Virendra
Cc: Matthew Nelson
Subject: RE: Eurofins Calscience sample confirmation files from 570-114922-1 Etiwanda Commerce Center / 3653.0001L000

EXTERNAL EMAIL*

Hi Virendra,

Rush TAT (24-hr, if available). Yes, please release for moisture analysis as well.

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Patel, Virendra <Virendra.Patel@et.eurofinsus.com>
Sent: Wednesday, November 2, 2022 11:07 AM
To: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Cc: Matthew Nelson <mnelson@rouxinc.com>
Subject: RE: Eurofins Calscience sample confirmation files from 570-114922-1 Etiwanda Commerce Center / 3653.0001L000

This message originated outside your organization. Please use caution!

What TAT? Release moisture as well, correct?

Best Regards,

Virendra Patel
Project Manager

Eurofins Environment Testing Southwest, LLC
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone: 714-895 5494
Direct: 657-210-6327
Mobile: 714-887-9901

Virendra.Patel@ET.EurofinsUS.com

www.EurofinsUS.com/Env

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From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Wednesday, November 2, 2022 11:05 AM
To: Patel, Virendra <Virendra.Patel@et.eurofinsus.com>
Cc: Matthew Nelson <mnelson@rouxinc.com>
Subject: RE: Eurofins Calscience sample confirmation files from 570-114922-1 Etiwanda Commerce Center / 3653.0001L000

EXTERNAL EMAIL*

Hi Virendra,

Will you please have the lab release and analyze the extracts for the following samples:

- Unit-2-LT-30I
- Unit-2-LT-35G
- Unit-2-LT-40F
- Unit-2-LT-45E
- Unit-2-LT-50C

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Friday, October 28, 2022 8:16 AM
To: Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>
Subject: Eurofins Calscience sample confirmation files from 570-114922-1 Etiwanda Commerce Center / 3653.0001L000

This message originated outside your organization. Please use caution!

Hello,

Attached please find the sample confirmation files for job 570-114922-1; Etiwanda Commerce Center / 3653.0001L000

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [570-381935]
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

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eurofins | Calscience

7440 Lincoln Way Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us

570-114922 Chain of Custody

114922
CHAIN OF CUSTODY RECORD

DATE: 10-27-22

PAGE: 1 OF 1

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	P.O. NO:
CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL.: (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com	SAMPLER(S) (PRINT): Daniel Zaragoza / Travis Clow

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
- EC1 # 570 08787
- Extraction and hold

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Soxhlet extraction only				
1	Unit-2-LT-30I	10-27-22	1101	S	1	X																	X				
2	Unit-2-LT-35G		1109																								
3	Unit-2-LT-40F		1254																								
4	Unit-2-LT-45E		1245																								
5	Unit-2-LT-50C		1237																								
6	Unit-2-LT-50D		1345																								
7	Unit-2-LT-55A		1218																								
8	Unit-2-LT-60A		1223																								
9	Unit-2-LT-55C		1041																								

Relinquished by: (Signature)	Received by: (Signature/Affiliation) E. McDaniel	Date: 10/27/22	Time: 1700
Relinquished by: (Signature) E. McDaniel	Received by: (Signature/Affiliation)	Date: 10/27/22	Time: 1800
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 10/28/22	Time:

4.7 14.5 SCM

06/02/14 Revision

11/3/2022

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-114922-1

Login Number: 114922
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

eurofins | Environment Testing



ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-114923-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
11/4/2022 5:47:29 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-114923-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-114923-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114923-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-114923-1

Comments
No additional comments.

Receipt
The samples were received on 10/27/2022 6:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.5º C.

GC Semi VOA
Method 8082: The following samples appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: Unit-2-LT-25F (570-114923-1), Unit-2-LT-30H (570-114923-2) and Unit-2-LT-35F (570-114923-3). The sample(s) has been quantified and reported as Aroclor 1268. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-278151 and analytical batch 570-278644 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082: Surrogate recovery for the following sample was outside control limits: Unit-2-LT-25F (570-114923-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Organic Prep
Method 3540C: Due to the matrix, the following samples could not be concentrated to the final method required volume: Unit-2-LT-25F (570-114923-1), (570-114923-A-1 MS) and (570-114923-A-1 MSD). The reporting limits (RLs) are elevated proportionately. The final volume was changed from 10mL to 20mL.
8082

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114923-1

Client Sample ID: Unit-2-LT-25F — Lab Sample ID: 570-114923-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	460		110		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	420	F1	110		ug/Kg	1	☼	8082	Total/NA
Aroclor-1268	160		110		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-30H — Lab Sample ID: 570-114923-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	400		55		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	490		55		ug/Kg	1	☼	8082	Total/NA
Aroclor-1268	200		55		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-35F — Lab Sample ID: 570-114923-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	550		74		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	820		74		ug/Kg	1	☼	8082	Total/NA
Aroclor-1268	350		74		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-25F **Lab Sample ID: 570-114923-1**
Date Collected: 10/27/22 13:09 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		110		ug/Kg	☼	11/02/22 18:18	11/04/22 14:58	1
Aroclor-1221	ND		110		ug/Kg	☼	11/02/22 18:18	11/04/22 14:58	1
Aroclor-1232	ND		110		ug/Kg	☼	11/02/22 18:18	11/04/22 14:58	1
Aroclor-1242	ND		110		ug/Kg	☼	11/02/22 18:18	11/04/22 14:58	1
Aroclor-1248	ND		110		ug/Kg	☼	11/02/22 18:18	11/04/22 14:58	1
Aroclor-1254	**460**		110		ug/Kg	☼	11/02/22 18:18	11/04/22 14:58	1
Aroclor-1260	**420**	**F1**	110		ug/Kg	☼	11/02/22 18:18	11/04/22 14:58	1
Aroclor-1262	ND		110		ug/Kg	☼	11/02/22 18:18	11/04/22 14:58	1
Aroclor-1268	**160**		110		ug/Kg	☼	11/02/22 18:18	11/04/22 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*50*		*24 - 136*	*11/02/22 18:18*	*11/04/22 14:58*	*1*
DCB Decachlorobiphenyl (Surr)	*35*	*S1-*	*37 - 135*	*11/02/22 18:18*	*11/04/22 14:58*	*1*

Client Sample ID: Unit-2-LT-30H **Lab Sample ID: 570-114923-2**
Date Collected: 10/27/22 13:06 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		55		ug/Kg	☼	11/02/22 18:18	11/04/22 15:16	1
Aroclor-1221	ND		55		ug/Kg	☼	11/02/22 18:18	11/04/22 15:16	1
Aroclor-1232	ND		55		ug/Kg	☼	11/02/22 18:18	11/04/22 15:16	1
Aroclor-1242	ND		55		ug/Kg	☼	11/02/22 18:18	11/04/22 15:16	1
Aroclor-1248	ND		55		ug/Kg	☼	11/02/22 18:18	11/04/22 15:16	1
Aroclor-1254	**400**		55		ug/Kg	☼	11/02/22 18:18	11/04/22 15:16	1
Aroclor-1260	**490**		55		ug/Kg	☼	11/02/22 18:18	11/04/22 15:16	1
Aroclor-1262	ND		55		ug/Kg	☼	11/02/22 18:18	11/04/22 15:16	1
Aroclor-1268	**200**		55		ug/Kg	☼	11/02/22 18:18	11/04/22 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*94*		*24 - 136*	*11/02/22 18:18*	*11/04/22 15:16*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*37 - 135*	*11/02/22 18:18*	*11/04/22 15:16*	*1*

Client Sample ID: Unit-2-LT-35F **Lab Sample ID: 570-114923-3**
Date Collected: 10/27/22 12:59 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		74		ug/Kg	☼	11/02/22 18:18	11/04/22 15:34	1
Aroclor-1221	ND		74		ug/Kg	☼	11/02/22 18:18	11/04/22 15:34	1
Aroclor-1232	ND		74		ug/Kg	☼	11/02/22 18:18	11/04/22 15:34	1
Aroclor-1242	ND		74		ug/Kg	☼	11/02/22 18:18	11/04/22 15:34	1
Aroclor-1248	ND		74		ug/Kg	☼	11/02/22 18:18	11/04/22 15:34	1
Aroclor-1254	**550**		74		ug/Kg	☼	11/02/22 18:18	11/04/22 15:34	1
Aroclor-1260	**820**		74		ug/Kg	☼	11/02/22 18:18	11/04/22 15:34	1
Aroclor-1262	ND		74		ug/Kg	☼	11/02/22 18:18	11/04/22 15:34	1
Aroclor-1268	**350**		74		ug/Kg	☼	11/02/22 18:18	11/04/22 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*88*		*24 - 136*	*11/02/22 18:18*	*11/04/22 15:34*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*37 - 135*	*11/02/22 18:18*	*11/04/22 15:34*	*1*

General Chemistry

Client Sample ID: Unit-2-LT-25F **Lab Sample ID: 570-114923-1**
Date Collected: 10/27/22 13:09 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.3		0.1		%			11/02/22 17:16	1

Client Sample ID: Unit-2-LT-30H **Lab Sample ID: 570-114923-2**
Date Collected: 10/27/22 13:06 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.2		0.1		%			11/02/22 17:16	1

Client Sample ID: Unit-2-LT-35F **Lab Sample ID: 570-114923-3**
Date Collected: 10/27/22 12:59 **Matrix: Solid**
Date Received: 10/27/22 18:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	33.2		0.1		%			11/02/22 17:16	1

Surrogate Summary

Client: Roux Associates, Inc. Job ID: 570-114923-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-114923-1	Unit-2-LT-25F	50	35 S1-
570-114923-1 MS	Unit-2-LT-25F	63	52
570-114923-1 MSD	Unit-2-LT-25F	67	93
570-114923-2	Unit-2-LT-30H	94	100
570-114923-3	Unit-2-LT-35F	88	97
LCS 570-278151/2-A	Lab Control Sample	88	97
LCSD 570-278151/3-A	Lab Control Sample Dup	86	93
MB 570-278151/1-A	Method Blank	77	90

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-278151/1-A
Matrix: Solid
Analysis Batch: 278644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		11/02/22 18:18	11/04/22 14:04	1
Aroclor-1221	ND		50		ug/Kg		11/02/22 18:18	11/04/22 14:04	1
Aroclor-1232	ND		50		ug/Kg		11/02/22 18:18	11/04/22 14:04	1
Aroclor-1242	ND		50		ug/Kg		11/02/22 18:18	11/04/22 14:04	1
Aroclor-1248	ND		50		ug/Kg		11/02/22 18:18	11/04/22 14:04	1
Aroclor-1254	ND		50		ug/Kg		11/02/22 18:18	11/04/22 14:04	1
Aroclor-1260	ND		50		ug/Kg		11/02/22 18:18	11/04/22 14:04	1
Aroclor-1262	ND		50		ug/Kg		11/02/22 18:18	11/04/22 14:04	1
Aroclor-1268	ND		50		ug/Kg		11/02/22 18:18	11/04/22 14:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*77*		*24 - 136*	*11/02/22 18:18*	*11/04/22 14:04*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*37 - 135*	*11/02/22 18:18*	*11/04/22 14:04*	*1*

Lab Sample ID: LCS 570-278151/2-A
Matrix: Solid
Analysis Batch: 278644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	95.89		ug/Kg		96	46 - 131
Aroclor-1260	100	121.0		ug/Kg		121	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*88*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*97*		*37 - 135*

Lab Sample ID: LCSD 570-278151/3-A
Matrix: Solid
Analysis Batch: 278644

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278151

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	95.75		ug/Kg		96	46 - 131	0	32
Aroclor-1260	100	111.1		ug/Kg		111	40 - 150	8	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*86*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 135*

Lab Sample ID: 570-114923-1 MS
Matrix: Solid
Analysis Batch: 278644

Client Sample ID: Unit-2-LT-25F
Prep Type: Total/NA
Prep Batch: 278151

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		108	179.8	p	ug/Kg	☼	NC	29 - 174
Aroclor-1260	420	F1	108	709.9	F1	ug/Kg	☼	268	20 - 180

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

Lab Sample ID: 570-114923-1 MS **Client Sample ID: Unit-2-LT-25F**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 278644 **Prep Batch: 278151**

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*63*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*52*		*37 - 135*

Lab Sample ID: 570-114923-1 MSD **Client Sample ID: Unit-2-LT-25F**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 278644 **Prep Batch: 278151**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		108	222.0	p	ug/Kg	☼	NC	29 - 174	21	40
Aroclor-1260	420	F1	108	1019	F1	ug/Kg	☼	554	20 - 180	36	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*67*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-114923-3 DU **Client Sample ID: Unit-2-LT-35F**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 278155

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	33.2		32.9		%		0.9	10

QC Association Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114923-1

GC Semi VOA

Prep Batch: 278151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114923-1	Unit-2-LT-25F	Total/NA	Solid	3540C	
570-114923-2	Unit-2-LT-30H	Total/NA	Solid	3540C	
570-114923-3	Unit-2-LT-35F	Total/NA	Solid	3540C	
MB 570-278151/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-278151/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-278151/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-114923-1 MS	Unit-2-LT-25F	Total/NA	Solid	3540C	
570-114923-1 MSD	Unit-2-LT-25F	Total/NA	Solid	3540C	

Analysis Batch: 278644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114923-1	Unit-2-LT-25F	Total/NA	Solid	8082	278151
570-114923-2	Unit-2-LT-30H	Total/NA	Solid	8082	278151
570-114923-3	Unit-2-LT-35F	Total/NA	Solid	8082	278151
MB 570-278151/1-A	Method Blank	Total/NA	Solid	8082	278151
LCS 570-278151/2-A	Lab Control Sample	Total/NA	Solid	8082	278151
LCSD 570-278151/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	278151
570-114923-1 MS	Unit-2-LT-25F	Total/NA	Solid	8082	278151
570-114923-1 MSD	Unit-2-LT-25F	Total/NA	Solid	8082	278151

General Chemistry

Analysis Batch: 278155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-114923-1	Unit-2-LT-25F	Total/NA	Solid	Moisture	
570-114923-2	Unit-2-LT-30H	Total/NA	Solid	Moisture	
570-114923-3	Unit-2-LT-35F	Total/NA	Solid	Moisture	
570-114923-3 DU	Unit-2-LT-35F	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-114923-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-25F
Lab Sample ID: 570-114923-1
Date Collected: 10/27/22 13:09
Matrix: Solid
Date Received: 10/27/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.24 g	20 mL	278151	11/02/22 18:18	RY4P	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	278644	11/04/22 14:58	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			278155	11/02/22 17:16	B4QL	EET CAL 4
	Instrument ID: MOI4									

Client Sample ID: Unit-2-LT-30H
Lab Sample ID: 570-114923-2
Date Collected: 10/27/22 13:06
Matrix: Solid
Date Received: 10/27/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.29 g	10 mL	278151	11/02/22 18:18	RY4P	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	278644	11/04/22 15:16	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			278155	11/02/22 17:16	B4QL	EET CAL 4
	Instrument ID: MOI4									

Client Sample ID: Unit-2-LT-35F
Lab Sample ID: 570-114923-3
Date Collected: 10/27/22 12:59
Matrix: Solid
Date Received: 10/27/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.36 g	10 mL	278151	11/02/22 18:18	RY4P	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	278644	11/04/22 15:34	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			278155	11/02/22 17:16	B4QL	EET CAL 4
	Instrument ID: MOI4									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-114923-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-114923-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Job ID: 570-114923-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-114923-1	Unit-2-LT-25F	Solid	10/27/22 13:09	10/27/22 18:00
570-114923-2	Unit-2-LT-30H	Solid	10/27/22 13:06	10/27/22 18:00
570-114923-3	Unit-2-LT-35F	Solid	10/27/22 12:59	10/27/22 18:00

Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Wednesday, November 2, 2022 11:55 AM
To: Patel, Virendra
Cc: Matthew Nelson
Subject: Etiwanda Commerce Center: 10/27/22 Samples on Hold
Attachments: 2022-1027-COC-Etiwanda.pdf

EXTERNAL EMAIL*

Hi Virendra,

For the samples that were submitted to the lab on Thursday (10/27), there were 3 samples placed on HOLD (COC attached – I don't think I received a sample confirmation for these samples). Will you please direct the lab to release the samples from HOLD and have them perform the Soxhlet extraction and HOLD the extract? Please perform the extraction on a 3-day TAT. Hold moisture analysis as well.

Please let me know if you have any questions.

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

ROUX

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Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Friday, November 4, 2022 11:12 AM
To: Patel, Virendra
Cc: Matthew Nelson
Subject: RE: Eurofins Calscience sample confirmation files from 570-114923-1 Etiwanda Commerce Center / 3653.0001L000

EXTERNAL EMAIL*

Hi Virendra,

1-Day TAT on the PCB/moisture analysis, please.

Thank you,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Patel, Virendra <Virendra.Patel@et.eurofinsus.com>
Sent: Friday, November 4, 2022 11:09 AM
To: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Cc: Matthew Nelson <mnelson@rouxinc.com>
Subject: RE: Eurofins Calscience sample confirmation files from 570-114923-1 Etiwanda Commerce Center / 3653.0001L000

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What TAT?

Best Regards,

Virendra Patel
Project Manager

Eurofins Environment Testing Southwest, LLC
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone: 714-895 5494
Direct: 657-210-6327
Mobile: 714-887-9901

Virendra.Patel@ET.EurofinsUS.com

www.EurofinsUS.com/Env

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From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Friday, November 4, 2022 10:35 AM
To: Patel, Virendra <Virendra.Patel@et.eurofinsus.com>
Cc: Matthew Nelson <mnelson@rouxinc.com>
Subject: RE: Eurofins Calscience sample confirmation files from 570-114923-1 Etiwanda Commerce Center / 3653.0001L000

EXTERNAL EMAIL*

Hi Virendra,

Please have the lab proceed with the analysis (plus moisture) for the following samples:

- Unit-2-LT-25F
- Unit-2-LT-30H
- Unit-2-LT-35F

Thank you,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Wednesday, November 2, 2022 12:36 PM
To: Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>
Subject: Eurofins Calscience sample confirmation files from 570-114923-1 Etiwanda Commerce Center / 3653.0001L000

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Hello,

Attached please find the sample confirmation files for job 570-114923-1; Etiwanda Commerce Center / 3653.0001L000

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [570-384092]
Attachments: 3

> > Bank information has changed, please refer to remittance information on invoice. < <

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114923

CHAIN OF CUSTODY RECORD

570-114923 Chain of Custody

DATE: 10-27-22

PAGE: 1 OF 1

7440 Lincoln Way Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus com or call us

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	P O NO:
CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com	SAMPLER(S) (PRINT): Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
- ECI #570087 87
- Hold for analysis

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Hold
1	Unit-2-LT-25F	10-27-22	1309	S	1	X																	X
2	Unit-2-LT-30H	↓	1306	↓	↓	↓																	↓
3	Unit-2-LT-35F	↓	1259	↓	↓	↓																	

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 10/27/22	Time: 4:00
Relinquished by: (Signature) E McDaniel	Received by: (Signature/Affiliation)	Date: 10/27/22	Time: 1800
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

4-7/14-5 512

06/02/14 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-114923-1

Login Number: 114923
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-115680-2
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
11/14/2022 1:45:07 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@et.eurofinsus.com

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-115680-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-115680-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-115680-2

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-115680-2

Comments
No additional comments.

Receipt
The samples were received on 11/3/2022 4:17 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-115680-2

Client Sample ID: Unit-2-LT-20N — Lab Sample ID: 570-115680-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	380		55		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-25G — Lab Sample ID: 570-115680-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254 - DL	1300		600		ug/Kg	10	☼	8082	Total/NA
Aroclor-1260 - DL	1900		600		ug/Kg	10	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-30J — Lab Sample ID: 570-115680-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254 - DL	710		610		ug/Kg	10	☼	8082	Total/NA
Aroclor-1260 - DL	1600		610		ug/Kg	10	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-35I — Lab Sample ID: 570-115680-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254 - DL	670		610		ug/Kg	10	☼	8082	Total/NA
Aroclor-1260 - DL	1500		610		ug/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Roux Associates, Inc.
Job ID: 570-115680-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-20N
Date Collected: 11/03/22 12:57
Date Received: 11/03/22 16:17

Lab Sample ID: 570-115680-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		55		ug/Kg	☼	11/04/22 13:55	11/08/22 23:25	1
Aroclor-1221	ND		55		ug/Kg	☼	11/04/22 13:55	11/08/22 23:25	1
Aroclor-1232	ND		55		ug/Kg	☼	11/04/22 13:55	11/08/22 23:25	1
Aroclor-1242	ND		55		ug/Kg	☼	11/04/22 13:55	11/08/22 23:25	1
Aroclor-1248	ND		55		ug/Kg	☼	11/04/22 13:55	11/08/22 23:25	1
Aroclor-1254	ND		55		ug/Kg	☼	11/04/22 13:55	11/08/22 23:25	1
Aroclor-1260	**380**		55		ug/Kg	☼	11/04/22 13:55	11/08/22 23:25	1
Aroclor-1262	ND		55		ug/Kg	☼	11/04/22 13:55	11/08/22 23:25	1
Aroclor-1268	ND		55		ug/Kg	☼	11/04/22 13:55	11/08/22 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*96*		*24 - 136*	*11/04/22 13:55*	*11/08/22 23:25*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*37 - 135*	*11/04/22 13:55*	*11/08/22 23:25*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: Unit-2-LT-25G **Lab Sample ID: 570-115680-2**
Date Collected: 11/03/22 13:02 **Matrix: Solid**
Date Received: 11/03/22 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		600		ug/Kg	☼	11/04/22 13:55	11/09/22 16:59	10
Aroclor-1221	ND		600		ug/Kg	☼	11/04/22 13:55	11/09/22 16:59	10
Aroclor-1232	ND		600		ug/Kg	☼	11/04/22 13:55	11/09/22 16:59	10
Aroclor-1242	ND		600		ug/Kg	☼	11/04/22 13:55	11/09/22 16:59	10
Aroclor-1248	ND		600		ug/Kg	☼	11/04/22 13:55	11/09/22 16:59	10
Aroclor-1254	**1300**		600		ug/Kg	☼	11/04/22 13:55	11/09/22 16:59	10
Aroclor-1260	**1900**		600		ug/Kg	☼	11/04/22 13:55	11/09/22 16:59	10
Aroclor-1262	ND		600		ug/Kg	☼	11/04/22 13:55	11/09/22 16:59	10
Aroclor-1268	ND		600		ug/Kg	☼	11/04/22 13:55	11/09/22 16:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*97*		*24 - 136*	*11/04/22 13:55*	*11/09/22 16:59*	*10*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 135*	*11/04/22 13:55*	*11/09/22 16:59*	*10*

Client Sample ID: Unit-2-LT-30J **Lab Sample ID: 570-115680-3**
Date Collected: 11/03/22 13:07 **Matrix: Solid**
Date Received: 11/03/22 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	*1	610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:17	10
Aroclor-1221	ND		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:17	10
Aroclor-1232	ND		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:17	10
Aroclor-1242	ND		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:17	10
Aroclor-1248	ND		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:17	10
Aroclor-1254	**710**		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:17	10
Aroclor-1260	**1600**		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:17	10
Aroclor-1262	ND		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:17	10
Aroclor-1268	ND		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*97*		*24 - 136*	*11/04/22 13:55*	*11/09/22 17:17*	*10*
DCB Decachlorobiphenyl (Surr)	*90*		*37 - 135*	*11/04/22 13:55*	*11/09/22 17:17*	*10*

Client Sample ID: Unit-2-LT-35I **Lab Sample ID: 570-115680-4**
Date Collected: 11/03/22 13:13 **Matrix: Solid**
Date Received: 11/03/22 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	*1	610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:35	10
Aroclor-1221	ND		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:35	10
Aroclor-1232	ND		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:35	10
Aroclor-1242	ND		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:35	10
Aroclor-1248	ND		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:35	10
Aroclor-1254	**670**		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:35	10
Aroclor-1260	**1500**		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:35	10
Aroclor-1262	ND		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:35	10
Aroclor-1268	ND		610		ug/Kg	☼	11/04/22 13:55	11/09/22 17:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*96*		*24 - 136*	*11/04/22 13:55*	*11/09/22 17:35*	*10*
DCB Decachlorobiphenyl (Surr)	*98*		*37 - 135*	*11/04/22 13:55*	*11/09/22 17:35*	*10*

General Chemistry

Client Sample ID: Unit-2-LT-20N **Lab Sample ID: 570-115680-1**
Date Collected: 11/03/22 12:57 **Matrix: Solid**
Date Received: 11/03/22 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.5		0.1		%			11/07/22 18:06	1

Client Sample ID: Unit-2-LT-25G **Lab Sample ID: 570-115680-2**
Date Collected: 11/03/22 13:02 **Matrix: Solid**
Date Received: 11/03/22 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.7		0.1		%			11/10/22 11:32	1

Client Sample ID: Unit-2-LT-30J **Lab Sample ID: 570-115680-3**
Date Collected: 11/03/22 13:07 **Matrix: Solid**
Date Received: 11/03/22 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.2		0.1		%			11/07/22 18:06	1

Client Sample ID: Unit-2-LT-35I **Lab Sample ID: 570-115680-4**
Date Collected: 11/03/22 13:13 **Matrix: Solid**
Date Received: 11/03/22 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.9		0.1		%			11/07/22 18:06	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-115680-2

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-115553-A-21-A MS	Matrix Spike	91	90
570-115553-A-21-B MSD	Matrix Spike Duplicate	98	85
570-115680-1	Unit-2-LT-20N	96	82
570-115680-2 - DL	Unit-2-LT-25G	97	91
570-115680-3 - DL	Unit-2-LT-30J	97	90
570-115680-4 - DL	Unit-2-LT-35I	96	98
LCS 570-278767/2-A	Lab Control Sample	85	118
LCSD 570-278767/3-A	Lab Control Sample Dup	83	85
MB 570-278767/1-A	Method Blank	85	96

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-278767/1-A
Matrix: Solid
Analysis Batch: 279125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278767

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1221	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1232	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1242	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1248	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1254	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1260	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1262	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1268	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*	*11/04/22 13:55*	*11/07/22 15:24*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*37 - 135*	*11/04/22 13:55*	*11/07/22 15:24*	*1*

Lab Sample ID: LCS 570-278767/2-A
Matrix: Solid
Analysis Batch: 279125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278767

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	87.61	p	ug/Kg		88	46 - 131
Aroclor-1260	100	134.9		ug/Kg		135	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*118*		*37 - 135*

Lab Sample ID: LCSD 570-278767/3-A
Matrix: Solid
Analysis Batch: 279125

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278767

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	85.93		ug/Kg		86	46 - 131	2	32
Aroclor-1260	100	108.7		ug/Kg		109	40 - 150	22	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*83*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*85*		*37 - 135*

Lab Sample ID: 570-115553-A-21-A MS
Matrix: Solid
Analysis Batch: 279125

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 278767

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		132	97.07		ug/Kg	☼	74	29 - 174
Aroclor-1260	ND		132	136.9		ug/Kg	☼	104	20 - 180

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

Lab Sample ID: 570-115553-A-21-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 279125 — **Prep Batch: 278767**

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*91*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*90*		*37 - 135*

Lab Sample ID: 570-115553-A-21-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 279125 — **Prep Batch: 278767**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		133	135.6		ug/Kg	☼	102	29 - 174	33	40
Aroclor-1260	ND		133	136.8		ug/Kg	☼	103	20 - 180	0	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*98*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*85*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-114592-B-115 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 279521

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	13.8		14.4		%		4	10

Lab Sample ID: 570-115680-2 DU — **Client Sample ID: Unit-2-LT-25G**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 280346

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	16.7		15.2		%		9	10

QC Association Summary

Client: Roux Associates, Inc.
Job ID: 570-115680-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

GC Semi VOA

Prep Batch: 278767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-115680-1	Unit-2-LT-20N	Total/NA	Solid	3540C	
570-115680-2 - DL	Unit-2-LT-25G	Total/NA	Solid	3540C	
570-115680-3 - DL	Unit-2-LT-30J	Total/NA	Solid	3540C	
570-115680-4 - DL	Unit-2-LT-35I	Total/NA	Solid	3540C	
MB 570-278767/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-278767/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-278767/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-115553-A-21-A MS	Matrix Spike	Total/NA	Solid	3540C	
570-115553-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3540C	

Analysis Batch: 279125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-278767/1-A	Method Blank	Total/NA	Solid	8082	278767
LCS 570-278767/2-A	Lab Control Sample	Total/NA	Solid	8082	278767
LCSD 570-278767/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	278767
570-115553-A-21-A MS	Matrix Spike	Total/NA	Solid	8082	278767
570-115553-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	278767

Analysis Batch: 279476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-115680-1	Unit-2-LT-20N	Total/NA	Solid	8082	278767

Analysis Batch: 279851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-115680-2 - DL	Unit-2-LT-25G	Total/NA	Solid	8082	278767
570-115680-3 - DL	Unit-2-LT-30J	Total/NA	Solid	8082	278767
570-115680-4 - DL	Unit-2-LT-35I	Total/NA	Solid	8082	278767

General Chemistry

Analysis Batch: 279521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-115680-1	Unit-2-LT-20N	Total/NA	Solid	Moisture	
570-115680-3	Unit-2-LT-30J	Total/NA	Solid	Moisture	
570-115680-4	Unit-2-LT-35I	Total/NA	Solid	Moisture	
570-114592-B-115 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 280346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-115680-2	Unit-2-LT-25G	Total/NA	Solid	Moisture	
570-115680-2 DU	Unit-2-LT-25G	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Job ID: 570-115680-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-20N
Lab Sample ID: 570-115680-1
Date Collected: 11/03/22 12:57
Matrix: Solid
Date Received: 11/03/22 16:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			20.26 g	10 mL	278767	11/04/22 13:55	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	279476	11/08/22 23:25	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			279521	11/07/22 18:06	B4QL	EET CAL 4
	Instrument ID: MOI4									

Client Sample ID: Unit-2-LT-25G
Lab Sample ID: 570-115680-2
Date Collected: 11/03/22 13:02
Matrix: Solid
Date Received: 11/03/22 16:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		19.95 g	10 mL	278767	11/04/22 13:55	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	10	1 mL	1 mL	279851	11/09/22 16:59	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			280346	11/10/22 11:32	B4QL	EET CAL 4
	Instrument ID: BAL87									

Client Sample ID: Unit-2-LT-30J
Lab Sample ID: 570-115680-3
Date Collected: 11/03/22 13:07
Matrix: Solid
Date Received: 11/03/22 16:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		20.06 g	10 mL	278767	11/04/22 13:55	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	10	1 mL	1 mL	279851	11/09/22 17:17	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			279521	11/07/22 18:06	B4QL	EET CAL 4
	Instrument ID: MOI4									

Client Sample ID: Unit-2-LT-35I
Lab Sample ID: 570-115680-4
Date Collected: 11/03/22 13:13
Matrix: Solid
Date Received: 11/03/22 16:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		20.06 g	10 mL	278767	11/04/22 13:55	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	10	1 mL	1 mL	279851	11/09/22 17:35	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			279521	11/07/22 18:06	B4QL	EET CAL 4
	Instrument ID: MOI4									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc.
Job ID: 570-115680-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc.
Job ID: 570-115680-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Job ID: 570-115680-2
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-115680-1	Unit-2-LT-20N	Solid	11/03/22 12:57	11/03/22 16:17
570-115680-2	Unit-2-LT-25G	Solid	11/03/22 13:02	11/03/22 16:17
570-115680-3	Unit-2-LT-30J	Solid	11/03/22 13:07	11/03/22 16:17
570-115680-4	Unit-2-LT-35I	Solid	11/03/22 13:13	11/03/22 16:17

Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Friday, November 4, 2022 10:48 AM
To: Patel, Virendra
Cc: Matthew Nelson
Subject: RE: Eurofins Calscience report files from 570-115680-1 Etiwanda Commerce Center / 3653.0001L000

EXTERNAL EMAIL*

Hi Virendra,

Please have the lab perform the Soxhlet extraction (and HOLD extract) on 3-day TAT for the following samples:

- Unit-2-LT-20N
- Unit-2-LT-25G
- Unit-2-LT-30J
- Unit-2-LT-35I
- Unit-2-LT-40H
- Unit-2-LT-45G
- Unit-2-LT-50G
- Unit-2-LT-55D

Thank you,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Friday, November 4, 2022 10:21 AM
To: Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>
Subject: Eurofins Calscience report files from 570-115680-1 Etiwanda Commerce Center / 3653.0001L000

This message originated outside your organization. Please use caution!

Hello,

Attached please find the report files for job 570-115680-1; Etiwanda Commerce Center / 3653.0001L000

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [570-385043]
Attachments: 1

> > Bank information has changed, please refer to remittance information on invoice. < <

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Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Monday, November 7, 2022 11:32 AM
To: Patel, Virendra
Cc: Matthew Nelson
Subject: RE: Eurofins Calscience report files from 570-115680-1 Etiwanda Commerce Center / 3653.0001L000

EXTERNAL EMAIL*

Hi Virendra,

I would like to revise the analytical instructions for the email that was sent on Friday 11/4. Please have the following samples analyzed for PCBs (+ moisture) on 3-Day TAT from today:

- Unit-2-LT-20N
- Unit-2-LT-25G
- Unit-2-LT-30J
- Unit-2-LT-35I

The remaining samples listed in the email below should continue to be extracted and held.

Please let me know if you have any questions.

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Mark Nishibayashi
Sent: Friday, November 4, 2022 10:48 AM
To: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Cc: Matthew Nelson <mnelson@rouxinc.com>
Subject: RE: Eurofins Calscience report files from 570-115680-1 Etiwanda Commerce Center / 3653.0001L000

Hi Virendra,

Please have the lab perform the Soxhlet extraction (and HOLD extract) on 3-day TAT for the following samples:

- Unit-2-LT-20N
- Unit-2-LT-25G
- Unit-2-LT-30J
- Unit-2-LT-35I
- Unit-2-LT-40H

- Unit-2-LT-45G
- Unit-2-LT-50G
- Unit-2-LT-55D

Thank you,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Friday, November 4, 2022 10:21 AM
To: Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>
Subject: Eurofins Calscience report files from 570-115680-1 Etiwanda Commerce Center / 3653.0001L000

This message originated outside your organization. Please use caution!

Hello,

Attached please find the report files for job 570-115680-1; Etiwanda Commerce Center / 3653.0001L000

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [570-385043]
Attachments: 1

> > Bank information has changed, please refer to remittance information on invoice. < <

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115680

eurofins | Calscience

7440 Lincoln Way Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us26_sales@eurofinsus com or call us

WO # / LAB USE ONLY

CHAIN OF CUSTODY RECORD

DATE 11-3-22

PAGE 1 OF 1

LABORATORY CLIENT: Roux Associates, Inc

ADDRESS: 5150 Pacific Coast Hwy Suite 450

CITY: Long Beach CA 90804 STATE: CA ZIP: 90804

TEL. (818) 726-4265 / (951) 987-1124 / (818) 383-2312

E-MAIL mnelson@rouxinc com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

P O NO: 57008787

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S). (PRINT): Daniel Zaragoza ~~Ian Gross~~

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

-ECI #57008787

-Hold for analysis

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Hold				
1	Unit-2-LT-20N	11-3-22	1257	S	1	X																	X				
2	Unit-2-LT-25G		1302																								
3	Unit-2-LT-30J		1307																								
4	Unit-2-LT-35I		1313																								
5	Unit-2-LT-40H		1318																								
6	Unit-2-LT-45G		1330																								
7	Unit-2-LT-50G		1340																								
8	Unit-2-LT-55D		1348																								
9	Unit-2-LT-55F		1355																								
10	Unit-2-LT-60B		1400																								

570-115680 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 11-3-22	Time: 1617
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

JCL 3-7/3 5 JCL

06/02/14 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-115680-2

Login Number: 115680
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-115681-1
Client Project/Site: Etiwanda Commerce Center / 3653.0001L000

For:
Roux Associates, Inc.
5150 E Pacific Coast Highway
Suite 450
Long Beach, California 90804

Attn: Matthew Nelson

Virendra R Patel

Authorized for release by:
11/10/2022 12:30:03 PM

Virendra Patel, Project Manager I
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LINKS

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the {0} Project Manager.

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Definitions/Glossary

Client: Roux Associates, Inc. Job ID: 570-115681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

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

Case Narrative

Client: Roux Associates, Inc. Job ID: 570-115681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-115681-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-115681-1

Comments
No additional comments.

Receipt
The samples were received on 11/3/2022 4:17 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

Detection Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-115681-1

Client Sample ID: Unit-2-LT-40I — Lab Sample ID: 570-115681-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	210		63		ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	250		63		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-45H — Lab Sample ID: 570-115681-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254 - DL	880		300		ug/Kg	5	☼	8082	Total/NA
Aroclor-1260 - DL	1400		300		ug/Kg	5	☼	8082	Total/NA

Client Sample ID: Unit-2-LT-50H — Lab Sample ID: 570-115681-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254 - DL	660		280		ug/Kg	5	☼	8082	Total/NA
Aroclor-1260 - DL	1100		280		ug/Kg	5	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Roux Associates, Inc.
Job ID: 570-115681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Unit-2-LT-40I
Date Collected: 11/03/22 13:25
Date Received: 11/03/22 16:17

Lab Sample ID: 570-115681-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		63		ug/Kg	☼	11/04/22 13:55	11/07/22 18:06	1
Aroclor-1221	ND		63		ug/Kg	☼	11/04/22 13:55	11/07/22 18:06	1
Aroclor-1232	ND		63		ug/Kg	☼	11/04/22 13:55	11/07/22 18:06	1
Aroclor-1242	ND		63		ug/Kg	☼	11/04/22 13:55	11/07/22 18:06	1
Aroclor-1248	ND		63		ug/Kg	☼	11/04/22 13:55	11/07/22 18:06	1
Aroclor-1254	**210**		63		ug/Kg	☼	11/04/22 13:55	11/07/22 18:06	1
Aroclor-1260	**250**		63		ug/Kg	☼	11/04/22 13:55	11/07/22 18:06	1
Aroclor-1262	ND		63		ug/Kg	☼	11/04/22 13:55	11/07/22 18:06	1
Aroclor-1268	ND		63		ug/Kg	☼	11/04/22 13:55	11/07/22 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*24*		*24 - 136*	*11/04/22 13:55*	*11/07/22 18:06*	*1*
DCB Decachlorobiphenyl (Surr)	*21*	*S1-*	*37 - 135*	*11/04/22 13:55*	*11/07/22 18:06*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: Unit-2-LT-45H **Lab Sample ID: 570-115681-2**
Date Collected: 11/03/22 13:35 **Matrix: Solid**
Date Received: 11/03/22 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		300		ug/Kg	☼	11/04/22 13:55	11/09/22 16:05	5
Aroclor-1221	ND		300		ug/Kg	☼	11/04/22 13:55	11/09/22 16:05	5
Aroclor-1232	ND		300		ug/Kg	☼	11/04/22 13:55	11/09/22 16:05	5
Aroclor-1242	ND		300		ug/Kg	☼	11/04/22 13:55	11/09/22 16:05	5
Aroclor-1248	ND		300		ug/Kg	☼	11/04/22 13:55	11/09/22 16:05	5
Aroclor-1254	**880**		300		ug/Kg	☼	11/04/22 13:55	11/09/22 16:05	5
Aroclor-1260	**1400**		300		ug/Kg	☼	11/04/22 13:55	11/09/22 16:05	5
Aroclor-1262	ND		300		ug/Kg	☼	11/04/22 13:55	11/09/22 16:05	5
Aroclor-1268	ND		300		ug/Kg	☼	11/04/22 13:55	11/09/22 16:05	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*104*		*24 - 136*	*11/04/22 13:55*	*11/09/22 16:05*	*5*
DCB Decachlorobiphenyl (Surr)	*116*		*37 - 135*	*11/04/22 13:55*	*11/09/22 16:05*	*5*

Client Sample ID: Unit-2-LT-50H **Lab Sample ID: 570-115681-3**
Date Collected: 11/03/22 13:44 **Matrix: Solid**
Date Received: 11/03/22 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		280		ug/Kg	☼	11/04/22 13:55	11/09/22 16:23	5
Aroclor-1221	ND		280		ug/Kg	☼	11/04/22 13:55	11/09/22 16:23	5
Aroclor-1232	ND		280		ug/Kg	☼	11/04/22 13:55	11/09/22 16:23	5
Aroclor-1242	ND		280		ug/Kg	☼	11/04/22 13:55	11/09/22 16:23	5
Aroclor-1248	ND		280		ug/Kg	☼	11/04/22 13:55	11/09/22 16:23	5
Aroclor-1254	**660**		280		ug/Kg	☼	11/04/22 13:55	11/09/22 16:23	5
Aroclor-1260	**1100**		280		ug/Kg	☼	11/04/22 13:55	11/09/22 16:23	5
Aroclor-1262	ND		280		ug/Kg	☼	11/04/22 13:55	11/09/22 16:23	5
Aroclor-1268	ND		280		ug/Kg	☼	11/04/22 13:55	11/09/22 16:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*90*		*24 - 136*	*11/04/22 13:55*	*11/09/22 16:23*	*5*
DCB Decachlorobiphenyl (Surr)	*115*		*37 - 135*	*11/04/22 13:55*	*11/09/22 16:23*	*5*

General Chemistry

Client Sample ID: Unit-2-LT-40I **Lab Sample ID: 570-115681-1**
Date Collected: 11/03/22 13:25 **Matrix: Solid**
Date Received: 11/03/22 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.9		0.1		%			11/07/22 10:31	1

Client Sample ID: Unit-2-LT-45H **Lab Sample ID: 570-115681-2**
Date Collected: 11/03/22 13:35 **Matrix: Solid**
Date Received: 11/03/22 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.4		0.1		%			11/07/22 10:31	1

Client Sample ID: Unit-2-LT-50H **Lab Sample ID: 570-115681-3**
Date Collected: 11/03/22 13:44 **Matrix: Solid**
Date Received: 11/03/22 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.6		0.1		%			11/07/22 10:31	1

Surrogate Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-115681-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(24-136)	(37-135)
570-115553-A-21-A MS	Matrix Spike	91	90
570-115553-A-21-B MSD	Matrix Spike Duplicate	98	85
570-115681-1	Unit-2-LT-40I	24	21 S1-
570-115681-2 - DL	Unit-2-LT-45H	104	116
570-115681-3 - DL	Unit-2-LT-50H	90	115
LCS 570-278767/2-A	Lab Control Sample	85	118
LCSD 570-278767/3-A	Lab Control Sample Dup	83	85
MB 570-278767/1-A	Method Blank	85	96

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

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

Lab Sample ID: MB 570-278767/1-A
Matrix: Solid
Analysis Batch: 279125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278767

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1221	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1232	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1242	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1248	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1254	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1260	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1262	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1
Aroclor-1268	ND		50		ug/Kg		11/04/22 13:55	11/07/22 15:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*	*11/04/22 13:55*	*11/07/22 15:24*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*37 - 135*	*11/04/22 13:55*	*11/07/22 15:24*	*1*

Lab Sample ID: LCS 570-278767/2-A
Matrix: Solid
Analysis Batch: 279125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278767

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	100	87.61		ug/Kg		88	46 - 131
Aroclor-1260	100	134.9		ug/Kg		135	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*85*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*118*		*37 - 135*

Lab Sample ID: LCSD 570-278767/3-A
Matrix: Solid
Analysis Batch: 279125

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278767

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	100	85.93		ug/Kg		86	46 - 131	2	32
Aroclor-1260	100	108.7		ug/Kg		109	40 - 150	22	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*83*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*85*		*37 - 135*

Lab Sample ID: 570-115553-A-21-A MS
Matrix: Solid
Analysis Batch: 279125

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 278767

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor-1016	ND		132	97.07		ug/Kg	☼	74	29 - 174
Aroclor-1260	ND		132	136.9		ug/Kg	☼	104	20 - 180

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

Lab Sample ID: 570-115553-A-21-A MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 279125 **Prep Batch: 278767**

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*91*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*90*		*37 - 135*

Lab Sample ID: 570-115553-A-21-B MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 279125 **Prep Batch: 278767**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016	ND		133	135.6		ug/Kg	☼	102	29 - 174	33	40
Aroclor-1260	ND		133	136.8		ug/Kg	☼	103	20 - 180	0	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*98*		*24 - 136*
DCB Decachlorobiphenyl (Surr)	*85*		*37 - 135*

Method: Moisture - Percent Moisture

Lab Sample ID: 570-115681-1 DU **Client Sample ID: Unit-2-LT-40I**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 279282

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	19.9		20.7		%		4	10

QC Association Summary

Client: Roux Associates, Inc.
Job ID: 570-115681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

GC Semi VOA

Prep Batch: 278767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-115681-1	Unit-2-LT-40I	Total/NA	Solid	3540C	
570-115681-2 - DL	Unit-2-LT-45H	Total/NA	Solid	3540C	
570-115681-3 - DL	Unit-2-LT-50H	Total/NA	Solid	3540C	
MB 570-278767/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 570-278767/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 570-278767/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
570-115553-A-21-A MS	Matrix Spike	Total/NA	Solid	3540C	
570-115553-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3540C	

Analysis Batch: 279125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-115681-1	Unit-2-LT-40I	Total/NA	Solid	8082	278767
MB 570-278767/1-A	Method Blank	Total/NA	Solid	8082	278767
LCS 570-278767/2-A	Lab Control Sample	Total/NA	Solid	8082	278767
LCSD 570-278767/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	278767
570-115553-A-21-A MS	Matrix Spike	Total/NA	Solid	8082	278767
570-115553-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	278767

Analysis Batch: 279851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-115681-2 - DL	Unit-2-LT-45H	Total/NA	Solid	8082	278767
570-115681-3 - DL	Unit-2-LT-50H	Total/NA	Solid	8082	278767

General Chemistry

Analysis Batch: 279282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-115681-1	Unit-2-LT-40I	Total/NA	Solid	Moisture	
570-115681-2	Unit-2-LT-45H	Total/NA	Solid	Moisture	
570-115681-3	Unit-2-LT-50H	Total/NA	Solid	Moisture	
570-115681-1 DU	Unit-2-LT-40I	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Roux Associates, Inc. Job ID: 570-115681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Client Sample ID: Unit-2-LT-40I — Lab Sample ID: 570-115681-1

Date Collected: 11/03/22 13:25 — **Matrix: Solid**
Date Received: 11/03/22 16:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			19.90 g	10 mL	278767	11/04/22 13:55	USUL	EET CAL 4
Total/NA	Analysis	8082		1	1 mL	1 mL	279125	11/07/22 18:06	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			279282	11/07/22 10:31	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-45H — Lab Sample ID: 570-115681-2

Date Collected: 11/03/22 13:35 — **Matrix: Solid**
Date Received: 11/03/22 16:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		19.98 g	10 mL	278767	11/04/22 13:55	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	279851	11/09/22 16:05	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			279282	11/07/22 10:31	B4QL	EET CAL 4
	Instrument ID: MOI2									

Client Sample ID: Unit-2-LT-50H — Lab Sample ID: 570-115681-3

Date Collected: 11/03/22 13:44 — **Matrix: Solid**
Date Received: 11/03/22 16:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C	DL		20.04 g	10 mL	278767	11/04/22 13:55	USUL	EET CAL 4
Total/NA	Analysis	8082	DL	5	1 mL	1 mL	279851	11/09/22 16:23	AJ2Q	EET CAL 4
	Instrument ID: GC58									
Total/NA	Analysis	Moisture		1			279282	11/07/22 10:31	B4QL	EET CAL 4
	Instrument ID: MOI2									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Roux Associates, Inc. Job ID: 570-115681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	Aroclor-1262
8082	3540C	Solid	Aroclor-1268
Moisture		Solid	Percent Moisture

Method Summary

Client: Roux Associates, Inc. Job ID: 570-115681-1
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAL 4
Moisture	Percent Moisture	EPA	EET CAL 4
3540C	Soxhlet Extraction	SW846	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Roux Associates, Inc.
Project/Site: Etiwanda Commerce Center / 3653.0001L000

Job ID: 570-115681-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-115681-1	Unit-2-LT-40I	Solid	11/03/22 13:25	11/03/22 16:17
570-115681-2	Unit-2-LT-45H	Solid	11/03/22 13:35	11/03/22 16:17
570-115681-3	Unit-2-LT-50H	Solid	11/03/22 13:44	11/03/22 16:17

Patel, Virendra

From: Mark Nishibayashi <mnishibayashi@rouxinc.com>
Sent: Friday, November 4, 2022 1:36 PM
To: Patel, Virendra
Cc: Matthew Nelson
Subject: RE: Eurofins Calscience sample confirmation files from 570-115681-1 Etiwanda Commerce Center / 3653.0001L000

EXTERNAL EMAIL*

Hi Virendra,

Please have the lab proceed with the analysis (plus moisture) on a 3-day TAT for the following samples:

- Unit-2-LT-40I
- Unit-2-LT-45H
- Unit-2-LT-50H

Thank you,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Friday, November 4, 2022 10:11 AM
To: Matthew Nelson <mnelson@rouxinc.com>; Mark Nishibayashi <mnishibayashi@rouxinc.com>; Sean Owens <sowens@rouxinc.com>
Subject: Eurofins Calscience sample confirmation files from 570-115681-1 Etiwanda Commerce Center / 3653.0001L000

This message originated outside your organization. Please use caution!

Hello,

Attached please find the sample confirmation files for job 570-115681-1; Etiwanda Commerce Center / 3653.0001L000

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env

Reference: [570-385038]
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

115681

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE 11-3-22

PAGE 1 OF 1

LABORATORY CLIENT: Roux Associates Inc

ADDRESS: 5150 Pacific Coast Hwy, Suite 450

CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804

TEL.: (818) 726-4265 / (951) 987-1124 / (818) 383-2312

E-MAIL.: mnelson@rouxinc com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653 0001L000

PO NO: 57008787

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S) (PRINT): Daniel Zaragoza ~~Jan Cross~~

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD')

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

- ECI #57008787
- Extraction and hold

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218 6	Soxhlet extraction only			
1	Unit-2-LT-40I	11-3-22	1325	S	1	X																	X			
–	~~Unit-2-LT-45F~~																									D2
2	Unit-2-LT-45H	11-3-22	1335	S	1	X																	X			
3	Unit-2-LT-50H	↓	1344	↓	↓	↓																	↓			
4	Unit-2-LT-55E	↓	1357	↓	↓	↓																	↓			

570-115681 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time
		11-3-22	1617
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date.	Time.
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time.

SCE 3/3/5

06/02/14 Revision

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 570-115681-1

Login Number: 115681
List Number: 1
Creator: Patel, Virendra

List Source: Eurofins Calscience

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

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 464519
Report Level: II
Report Date: 07/11/2022

Analytical Report *prepared for:*

Matthew Nelson
Roux Associates, Inc.
5150 E. Pacific Coast Hwy.
Suite 450
Long Beach, CA 90804

Location: Etiwanda Commerce Center / 3653.0001L000

Authorized for release by:

Diane Galvan, Project Manager
714-771-9928
diane.galvan@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Matthew Nelson
Roux Associates, Inc.
5150 E. Pacific Coast Hwy.
Suite 450
Long Beach, CA
90804

Lab Job #: 464519
Location: Etiwanda Commerce Center / 3653.0001L000
Date Received: 06/17/22

Sample ID	Lab ID	Collected	Matrix
UNIT-2-LT-10C	464519-001	06/15/22 13:25	Soil
UNIT-2-LT-10A	464519-002	06/15/22 13:29	Soil
UNIT-2-SST_SO-W-W-10D	464519-003	06/15/22 14:07	Soil
UNIT-2-SST_SO-W-W-10C	464519-004	06/15/22 14:12	Soil
UNIT-2-SST_SO-W-W-10B	464519-005	06/15/22 14:18	Soil
UNIT-2-SST_SO-W-W-10A	464519-006	06/15/22 14:23	Soil
UNIT-2-SST_SO-W-SW-10F	464519-007	06/15/22 15:03	Soil
UNIT-2-SST_SO-W-SW-10E	464519-008	06/15/22 15:09	Soil
UNIT-2-SST_SO-W-SW-10D	464519-009	06/15/22 15:14	Soil
UNIT-2-SST_SO-W-SW-10C	464519-010	06/15/22 15:18	Soil
UNIT-2-SST_SO-W-SW-10A	464519-011	06/15/22 15:34	Soil
UNIT-2-SST_SO-W-SW-10B	464519-012	06/15/22 15:20	Soil
UNIT-2-SST_SO-W-SI-10F	464519-013	06/15/22 11:18	Soil
UNIT-2-LT-10D	464519-014	06/15/22 11:35	Soil
UNIT-2-LT-10B	464519-015	06/15/22 11:39	Soil

ENTHALPY ANALYTICAL

Case Narrative

Roux Associates, Inc. 5150 E. Pacific Coast Hwy. Suite 450 Long Beach, CA 90804 Matthew Nelson	Lab Job Number: 464519 Location: Etiwanda Commerce Center / 3653.0001L000 Date Received: 06/17/22

This data package contains sample and QC results for fifteen soil samples, requested for the above referenced project on 06/17/22. The samples were received cold and intact.

PCBs (EPA 8082):

- Low recoveries were observed for Aroclor-1260 in the MS/MSD of UNIT-2-LT-10E (lab # 464526-001); the LCS was within limits, and the associated RPD was within limits.
- High RPD was observed for Aroclor-1016 in the BS/BSD for batch 291934; this analyte was not detected at or above the RL in the associated samples.
- UNIT-2-LT-10C (lab # 464519-001) and UNIT-2-LT-10D (lab # 464519-014) were diluted due to high non-target analytes.
- No other analytical problems were encountered.

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: 460519

DATE: 6/15/22

PAGE: 1 OF 2

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653.0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	P.O. NO.:
CITY: Long Beach, STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com	SAMPLER(S): (PRINT) Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:
~~ECI Project #: 5700-8787~~ P2
Perform Soxhlet extraction but hold for analysis

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C35 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) 8540C	PAHs ☐ 8270C ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Hold extraction
	Unit-2-LT-10C	6/15/22	1325	Solid	1	X													X				X
	Unit-2-LT-10A		1329																				
	Unit-2-SST_SO-W-W-10D		1407																				
	Unit-2-SST_SO-W-W-10C		1412																				
	Unit-2-SST_SO-W-W-10B		1418																				
	Unit-2-SST_SO-W-W-10A		1423																				
	Unit-2-SST_SO-W-SW-10F		1503																				
	Unit-2-SST-SO-W-SW-10E		1509																				
	Unit-2-SST_SO-W-SW-10D		1514																				
	Unit-2-SST_SO-W-SW-10C		1519																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/17/22	Time: 1221
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 6/15/22

PAGE: 2 OF 2

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653.0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	P.O. NO.:
CITY: Long Beach, STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com	SAMPLER(S): (PRINT) Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD'):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:
Perform Soxhlet extraction but hold for analysis

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/74/X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Hold extraction			
	Unit-2-SST_SO-W-SW-10A	6/15/22	1534	Solid	1	X													X							
	Unit-2-SST_SO-W-SW-10B	6/15/22	1520	↓	↓	↓													↓				↓			
	Unit-2-SST_SO-W-SW-10F		1118																							
	Unit-2-LT-10D		1135																							
	Unit-2-LT-10B	↓	1139	↓	↓																					

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/17/22	Time: 1221
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: ROUX ASSOCIATES

Project: ETIWANDA COMMERCE CENTER

Date Received: 6/17/22

Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2)

Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 20.1 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 5.8 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 6/17/22

MONTROSE ENVIRONMENTAL

Diane Galvan <diane.galvan@enthalpy.com>

[EXTERNAL] Etiwanda: Concrete Samples for PCB Analysis

1 message

Mark Nishibayashi <mnishibayashi@rouxinc.com> Wed, Jul 6, 2022 at 8:58 AM
To: "diane.galvan@enthalpy.com" <diane.galvan@enthalpy.com>
Cc: Matthew Nelson <mnelson@rouxinc.com>, Daniel Zaragoza <dzaragoza@rouxinc.com>

Hi Diane,

Will you please run the PCB analysis (8082) on the extracts that were previously held? Please have the following samples analyzed:

-Unit-2-LT-10C

-Unit-2-LT-10D

-Unit-2-LT-10E

-Unit-2-SST_SO-W-W-10A

-Unit-2-SST_SO-W-SW-10A

-Unit-2-SST_SO-W-SW-10B

-Unit-2-SST_SO-W-SW-10C

-Unit-2-SST_SO-W-SW-10D

-Unit-2-SST_SO-W-SW-10E

-Unit-2-SST_SO-W-SW-10F

Samples selected for analysis are also highlighted in the attached copies of the original COCs.

Please let us know if you have any questions.

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

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2 attachments

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381K

Enthalpy Concrete COC_20220615 DZ_mhn.pdf
908K

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DATE: 6/15/22

PAGE: 1 OF 2

LABORATORY CLIENT: Roux Associates, Inc

ADDRESS: 5150 Pacific Coast Hwy, Suite 450

CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804

TEL: (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com

CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653.0001L000

P.O. NO.:

PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi

SAMPLER(S): (PRINT) Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
~~ECI Project #: 57008787~~ D2
Perform Soxhlet extraction but hold for analysis

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) GRO	TPH(d) DRO	TPH C6-C36 C6-C44	TPH	BTEX / MTBE 8260	VOCs (8260)	Oxygenates (8260)	Prep (5035) En Core Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) 3540C	PAHs 8270 8270 SIM	T22 Metals 6010/747X 6020/747X	Cr(VI) 7196 7199 218.6	Hold extraction
	Unit-2-LT-10C	6/15/22	1325	Solid	1	X													X				X
	Unit-2-LT-10A		1329																				
	Unit-2-SST_SO-W-W-10D		1407																				
	Unit-2-SST_SO-W-W-10C		1412																				
	Unit-2-SST_SO-W-W-10B		1418																				
	Unit-2-SST_SO-W-W-10A		1423																				
	Unit-2-SST_SO-W-SW-10F		1503																				
	Unit-2-SST-SO-W-SW-10E		1509																				
	Unit-2-SST_SO-W-SW-10D		1514																				
	Unit-2-SST_SO-W-SW-10C		1518																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/17/22	Time: 1221
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CamScanner

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WO # / LAB USE ONLY

DATE: 6/15/22

PAGE: 2 OF 2

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653.0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	P.O. NO.:
CITY: Long Beach, STATE: CA, ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (610) 246-3352 / (818) 383-2312	E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com
	SAMPLER(S): (PRINT) Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:
Perform Soxhlet extraction but hold for analysis

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) GRO	TPH(d) DRO	TPH C6-C36 C6-C44	TPH	BTEX / MTBE 8260	VOCs (8260)	Oxygenates (8260)	Prep (5035) En Core Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) 3540C	PAHs 8270 SIM	T22 Metals 6010/747X 6020/747X	Cr(VI) 7196 7199 218.6	Hold extraction
	Unit-2-SST_SO-W-SW-10A	6/15/22	1534	Solid	1	X													X				
	Unit-2-SST_SO-W-SW-10B	6/15/22	1520																				
	Unit-2-SST_SO-W-SW-10F		1118																				
	Unit-2-LT-10D		1135																				
	Unit-2-LT-10B		1134																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/17/22	Time: 1221
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

CamScanner

ENTHALPY ANALYTICAL

Analysis Results for 464519

Matthew Nelson
Roux Associates, Inc.
5150 E. Pacific Coast Hwy.
Suite 450
Long Beach, CA 90804

Lab Job #: 464519
Location: Etiwanda Commerce Center / 3653.0001L000
Date Received: 06/17/22

Perform SOXHLET extraction only and hold.

Sample ID: UNIT-2-LT-10C **Lab ID: 464519-001** **Collected: 06/15/22 13:25**
Matrix: Soil

464519-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8082 Prep Method: EPA 3541									
Aroclor-1016	ND		ug/Kg	500	5	291885	06/24/22	07/10/22	TJW
Aroclor-1221	ND		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Aroclor-1232	ND		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Aroclor-1242	ND		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Aroclor-1248	ND		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Aroclor-1254	ND		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Aroclor-1260	**1,700**		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Aroclor-1262	ND		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Aroclor-1268	ND		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	69%		%REC	19-121	5	291885	06/24/22	07/10/22	TJW

Sample ID: UNIT-2-SST_SO-W-W-10A **Lab ID: 464519-006** **Collected: 06/15/22 14:23**
Matrix: Soil

464519-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8082 Prep Method: EPA 3541									
Aroclor-1016	ND		ug/Kg	99	0.99	291934	06/26/22	07/09/22	TJW
Aroclor-1221	ND		ug/Kg	50	0.99	291934	06/26/22	07/09/22	TJW
Aroclor-1232	ND		ug/Kg	50	0.99	291934	06/26/22	07/09/22	TJW
Aroclor-1242	ND		ug/Kg	50	0.99	291934	06/26/22	07/09/22	TJW
Aroclor-1248	ND		ug/Kg	50	0.99	291934	06/26/22	07/09/22	TJW
Aroclor-1254	ND		ug/Kg	50	0.99	291934	06/26/22	07/09/22	TJW
Aroclor-1260	**470**		ug/Kg	50	0.99	291934	06/26/22	07/09/22	TJW
Aroclor-1262	ND		ug/Kg	50	0.99	291934	06/26/22	07/09/22	TJW
Aroclor-1268	ND		ug/Kg	50	0.99	291934	06/26/22	07/09/22	TJW
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	70%		%REC	19-121	0.99	291934	06/26/22	07/09/22	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 464519

Sample ID:	Lab ID: 464519-007	Collected: 06/15/22 15:03
UNIT-2-SST_SO-W-SW-10F	Matrix: Soil	

464519-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8082 Prep Method: EPA 3541									
Aroclor-1016	ND		ug/Kg	100	1	291885	06/24/22	07/10/22	TJW
Aroclor-1221	ND		ug/Kg	50	1	291885	06/24/22	07/10/22	TJW
Aroclor-1232	ND		ug/Kg	50	1	291885	06/24/22	07/10/22	TJW
Aroclor-1242	ND		ug/Kg	50	1	291885	06/24/22	07/10/22	TJW
Aroclor-1248	ND		ug/Kg	50	1	291885	06/24/22	07/10/22	TJW
Aroclor-1254	ND		ug/Kg	50	1	291885	06/24/22	07/10/22	TJW
Aroclor-1260	**560**		ug/Kg	50	1	291885	06/24/22	07/10/22	TJW
Aroclor-1262	ND		ug/Kg	50	1	291885	06/24/22	07/10/22	TJW
Aroclor-1268	ND		ug/Kg	50	1	291885	06/24/22	07/10/22	TJW
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	44%		%REC	19-121	1	291885	06/24/22	07/10/22	TJW

Sample ID:	Lab ID: 464519-008	Collected: 06/15/22 15:09
UNIT-2-SST_SO-W-SW-10E	Matrix: Soil	

464519-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8082 Prep Method: EPA 3541									
Aroclor-1016	ND		ug/Kg	100	1	291934	06/26/22	07/10/22	TJW
Aroclor-1221	ND		ug/Kg	50	1	291934	06/26/22	07/10/22	TJW
Aroclor-1232	ND		ug/Kg	50	1	291934	06/26/22	07/10/22	TJW
Aroclor-1242	ND		ug/Kg	50	1	291934	06/26/22	07/10/22	TJW
Aroclor-1248	ND		ug/Kg	50	1	291934	06/26/22	07/10/22	TJW
Aroclor-1254	ND		ug/Kg	50	1	291934	06/26/22	07/10/22	TJW
Aroclor-1260	**480**		ug/Kg	50	1	291934	06/26/22	07/10/22	TJW
Aroclor-1262	ND		ug/Kg	50	1	291934	06/26/22	07/10/22	TJW
Aroclor-1268	ND		ug/Kg	50	1	291934	06/26/22	07/10/22	TJW
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	74%		%REC	19-121	1	291934	06/26/22	07/10/22	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 464519

Sample ID:	Lab ID: 464519-009	Collected: 06/15/22 15:14
UNIT-2-SST_SO-W-SW-10D	Matrix: Soil	

464519-009 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8082 Prep Method: EPA 3541									
Aroclor-1016	ND		ug/Kg	10,000	100	291885	06/24/22	07/10/22	TJW
Aroclor-1221	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TJW
Aroclor-1232	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TJW
Aroclor-1242	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TJW
Aroclor-1248	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TJW
Aroclor-1254	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TJW
Aroclor-1260	**110,000**		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TJW
Aroclor-1262	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TJW
Aroclor-1268	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TJW
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)		DO	%REC	19-121	100	291885	06/24/22	07/10/22	TJW

Sample ID:	Lab ID: 464519-010	Collected: 06/15/22 15:18
UNIT-2-SST_SO-W-SW-10C	Matrix: Soil	

464519-010 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8082 Prep Method: EPA 3541									
Aroclor-1016	ND		ug/Kg	10,000	100	291885	06/24/22	07/10/22	TRN
Aroclor-1221	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Aroclor-1232	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Aroclor-1242	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Aroclor-1248	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Aroclor-1254	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Aroclor-1260	**92,000**		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Aroclor-1262	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Aroclor-1268	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)		DO	%REC	19-121	100	291885	06/24/22	07/10/22	TRN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 464519

Sample ID:	Lab ID: 464519-011	Collected: 06/15/22 15:34
UNIT-2-SST_SO-W-SW-10A	Matrix: Soil	

464519-011 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8082 Prep Method: EPA 3541									
Aroclor-1016	ND		ug/Kg	10,000	100	291885	06/24/22	07/10/22	TRN
Aroclor-1221	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Aroclor-1232	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Aroclor-1242	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Aroclor-1248	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Aroclor-1254	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Aroclor-1260	**60,000**		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Aroclor-1262	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Aroclor-1268	ND		ug/Kg	5,100	100	291885	06/24/22	07/10/22	TRN
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)		DO	%REC	19-121	100	291885	06/24/22	07/10/22	TRN

Sample ID:	Lab ID: 464519-012	Collected: 06/15/22 15:20
UNIT-2-SST_SO-W-SW-10B	Matrix: Soil	

464519-012 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8082 Prep Method: EPA 3541									
Aroclor-1016	ND		ug/Kg	50,000	500	291885	06/24/22	07/10/22	TRN
Aroclor-1221	ND		ug/Kg	25,000	500	291885	06/24/22	07/10/22	TRN
Aroclor-1232	ND		ug/Kg	25,000	500	291885	06/24/22	07/10/22	TRN
Aroclor-1242	ND		ug/Kg	25,000	500	291885	06/24/22	07/10/22	TRN
Aroclor-1248	ND		ug/Kg	25,000	500	291885	06/24/22	07/10/22	TRN
Aroclor-1254	ND		ug/Kg	25,000	500	291885	06/24/22	07/10/22	TRN
Aroclor-1260	**430,000**		ug/Kg	25,000	500	291885	06/24/22	07/10/22	TRN
Aroclor-1262	ND		ug/Kg	25,000	500	291885	06/24/22	07/10/22	TRN
Aroclor-1268	ND		ug/Kg	25,000	500	291885	06/24/22	07/10/22	TRN
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)		DO	%REC	19-121	500	291885	06/24/22	07/10/22	TRN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 464519

Sample ID: UNIT-2-LT-10D	Lab ID: 464519-014	Collected: 06/15/22 11:35
	Matrix: Soil	

464519-014 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8082 Prep Method: EPA 3541									
Aroclor-1016	ND		ug/Kg	510	5.1	291885	06/24/22	07/10/22	TJW
Aroclor-1221	ND		ug/Kg	250	5.1	291885	06/24/22	07/10/22	TJW
Aroclor-1232	ND		ug/Kg	250	5.1	291885	06/24/22	07/10/22	TJW
Aroclor-1242	ND		ug/Kg	250	5.1	291885	06/24/22	07/10/22	TJW
Aroclor-1248	ND		ug/Kg	250	5.1	291885	06/24/22	07/10/22	TJW
Aroclor-1254	ND		ug/Kg	250	5.1	291885	06/24/22	07/10/22	TJW
Aroclor-1260	**1,500**		ug/Kg	250	5.1	291885	06/24/22	07/10/22	TJW
Aroclor-1262	ND		ug/Kg	250	5.1	291885	06/24/22	07/10/22	TJW
Aroclor-1268	ND		ug/Kg	250	5.1	291885	06/24/22	07/10/22	TJW
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	83%		%REC	19-121	5.1	291885	06/24/22	07/10/22	TJW

DO Diluted Out
ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Perform SOXHLET extraction only and hold.

Type: Blank	Lab ID: QC999376	Batch: 291885
Matrix: Soil	Method: EPA 8082	Prep Method: EPA 3541

QC999376 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Aroclor-1016	ND		ug/Kg	100	06/24/22	07/10/22
Aroclor-1221	ND		ug/Kg	50	06/24/22	07/10/22
Aroclor-1232	ND		ug/Kg	50	06/24/22	07/10/22
Aroclor-1242	ND		ug/Kg	50	06/24/22	07/10/22
Aroclor-1248	ND		ug/Kg	50	06/24/22	07/10/22
Aroclor-1254	ND		ug/Kg	50	06/24/22	07/10/22
Aroclor-1260	ND		ug/Kg	50	06/24/22	07/10/22
Aroclor-1262	ND		ug/Kg	50	06/24/22	07/10/22
Aroclor-1268	ND		ug/Kg	50	06/24/22	07/10/22
Surrogates				**Limits**		
Decachlorobiphenyl (PCB)	48%		%REC	19-121	06/24/22	07/10/22

Type: Lab Control Sample	Lab ID: QC999377	Batch: 291885
Matrix: Soil	Method: EPA 8082	Prep Method: EPA 3541

QC999377 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	246.9	500.0	ug/Kg	49%		14-150
Aroclor-1260	294.7	500.0	ug/Kg	59%		10-150
Surrogates						
Decachlorobiphenyl (PCB)	24.58	50.00	ug/Kg	49%		19-121

Type: Matrix Spike	Lab ID: QC999378	Batch: 291885
Matrix (Source ID): Soil (464526-001)	Method: EPA 8082	Prep Method: EPA 3541

QC999378 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aroclor-1016	299.5	ND	500.0	ug/Kg	60%		42-127	5
Aroclor-1260	936.0	996.3	500.0	ug/Kg	-12%	*	38-130	5
Surrogates								
Decachlorobiphenyl (PCB)	26.04		50.00	ug/Kg	52%		19-121	5

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC999379**	**Batch:**	**291885**
Matrix (Source ID):	**Soil (464526-001)**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3541**

QC999379 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Aroclor-1016	312.2	ND	500.0	ug/Kg	62%		42-127	4	30	5
Aroclor-1260	893.0	996.3	500.0	ug/Kg	-21%	*	38-130	5	30	5
Surrogates										
Decachlorobiphenyl (PCB)	27.71		50.00	ug/Kg	55%		19-121			5

Type:	**Blank**	**Lab ID:**	**QC997202**	**Batch:**	**291934**
Matrix:	**Soil**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3541**

QC997202 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Aroclor-1016	ND		ug/Kg	100	06/26/22	07/09/22
Aroclor-1221	ND		ug/Kg	50	06/26/22	07/09/22
Aroclor-1232	ND		ug/Kg	50	06/26/22	07/09/22
Aroclor-1242	ND		ug/Kg	50	06/26/22	07/09/22
Aroclor-1248	ND		ug/Kg	50	06/26/22	07/09/22
Aroclor-1254	ND		ug/Kg	50	06/26/22	07/09/22
Aroclor-1260	ND		ug/Kg	50	06/26/22	07/09/22
Aroclor-1262	ND		ug/Kg	50	06/26/22	07/09/22
Aroclor-1268	ND		ug/Kg	50	06/26/22	07/09/22
Surrogates				**Limits**		
Decachlorobiphenyl (PCB)	69%		%REC	19-121	06/26/22	07/09/22

Type:	**Lab Control Sample**	**Lab ID:**	**QC997203**	**Batch:**	**291934**
Matrix:	**Soil**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3541**

QC997203 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	315.5	495.0	ug/Kg	64%		14-150
Aroclor-1260	373.9	495.0	ug/Kg	76%		10-150
Surrogates						
Decachlorobiphenyl (PCB)	31.43	49.50	ug/Kg	63%		19-121

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC997204**	**Batch:**	**291934**
Matrix:	**Soil**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3541**

QC997204 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Aroclor-1016	237.0	495.0	ug/Kg	48%		14-150	28*	20
Aroclor-1260	385.2	495.0	ug/Kg	78%		10-150	3	20
Surrogates								
Decachlorobiphenyl (PCB)	33.88	49.50	ug/Kg	68%		19-121		

ENTHALPY ANALYTICAL

Batch QC

* Value is outside QC limits
ND Not Detected

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 464526
Report Level: II
Report Date: 07/11/2022

Analytical Report *prepared for:*

Matthew Nelson
Roux Associates, Inc.
5150 E. Pacific Coast Hwy.
Suite 450
Long Beach, CA 90804

Location: Etiwanda Commerce Center / 3653.0001L000

Authorized for release by:

Diane Galvan

Diane Galvan, Project Manager
714-771-9928
diane.galvan@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Matthew Nelson Roux Associates, Inc. 5150 E. Pacific Coast Hwy. Suite 450 Long Beach, CA 90804	Lab Job #: Location: Date Received:	464526 Etiwanda Commerce Center / 3653.0001L000 06/17/22

Sample ID	Lab ID	Collected	Matrix
UNIT-2-LT-10E	464526-001	06/14/22 14:45	Soil

ENTHALPY ANALYTICAL

Case Narrative

Roux Associates, Inc. 5150 E. Pacific Coast Hwy. Suite 450 Long Beach, CA 90804 Matthew Nelson	Lab Job Number: 464526 Location: Etiwanda Commerce Center / 3653.0001L000 Date Received: 06/17/22

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 06/17/22. The sample was received cold and intact.

PCBs (EPA 8082):

- Low recoveries were observed for Aroclor-1260 in the MS/MSD of UNIT-2-LT-10E (lab # 464526-001); the LCS was within limits, and the associated RPD was within limits.
- UNIT-2-LT-10E (lab # 464526-001) was diluted due to high non-target analytes.
- No other analytical problems were encountered.

~~eurofins~~ | Enthalpy ~~Calscience~~

7440 Lincoln Way, Garden Grove, CA 92841-1427 ~~(714) 895-5494~~
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO# / LAB USE ONLY: 444 464526 (or 6/17/22)

DATE: 6/14/22

PAGE: ~~02~~ 1 OF ~~02~~ 1

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653.00011.000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	P.O. NO.:
CITY: Long Beach, STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com	SAMPLER(S): (PRINT) Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:

~~ECI Project #: 570084987~~ D2

Perform Soxhlet extraction but hold for analysis

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Hold extraction				
	UNIT-2-LT-10E	6/14/22	1445	Solid	1	X													X				X				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/17/22	Time: 1221
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

SDB / 20.1

06/02/14 Revision

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: ROUX ASSOCIATES Project: ETIWANDA COMMERCE CENTER

Date Received: 6/17/22 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 20.1 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 5.8 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 6/17/22

MONTROSE ENVIRONMENTAL

Diane Galvan <diane.galvan@enthalpy.com>

[EXTERNAL] Etiwanda: Concrete Samples for PCB Analysis

1 message

Mark Nishibayashi <mnishibayashi@rouxinc.com> Wed, Jul 6, 2022 at 8:58 AM
To: "diane.galvan@enthalpy.com" <diane.galvan@enthalpy.com>
Cc: Matthew Nelson <mnelson@rouxinc.com>, Daniel Zaragoza <dzaragoza@rouxinc.com>

Hi Diane,

Will you please run the PCB analysis (8082) on the extracts that were previously held? Please have the following samples analyzed:

-Unit-2-LT-10C

-Unit-2-LT-10D

-Unit-2-LT-10E

-Unit-2-SST_SO-W-W-10A

-Unit-2-SST_SO-W-SW-10A

-Unit-2-SST_SO-W-SW-10B

-Unit-2-SST_SO-W-SW-10C

-Unit-2-SST_SO-W-SW-10D

-Unit-2-SST_SO-W-SW-10E

-Unit-2-SST_SO-W-SW-10F

Samples selected for analysis are also highlighted in the attached copies of the original COCs.

Please let us know if you have any questions.

Thanks,
Mark

Mark Nishibayashi | Project Geologist
5150 East Pacific Coast Highway, Suite 450, Long Beach, CA 90804
Main: 310.879.4900 | Direct: 310.879.4922 | Mobile: 818.383.2312
Email: mnishibayashi@rouxinc.com | Website: www.rouxinc.com

ROUX

California | Illinois | Massachusetts | New Jersey | New York | Texas | Virginia

Please consider the environment before printing this email.

NOTICE: This electronic communication, including any authorized attachments, contains information that may be legally privileged, protected, confidential and/or exempt from disclosure or certain types of use under applicable law. This information is for the sole use of the intended recipient(s). If you are not the intended recipient(s) or the employee or agent responsible for delivery of this message to the intended recipient(s), you are hereby notified that any review, use, disclosure, copying, distribution or the taking of any action in reliance on the contents of this e-mail or any attachments is strictly prohibited. You are further advised that review by an individual other than the intended recipient(s) shall not constitute a waiver of any attorney-client privilege which may apply to this communication. If you have received this communication in error, please notify the sender immediately by return e-mail, permanently delete this e-mail and any attachments from all computers on which they may be stored and destroy any print-outs of this email and any attachments.

2 attachments

Enthalpy Concrete COC_20220614 DZ_mhn.pdf
381K

Enthalpy Concrete COC_20220615 DZ_mhn.pdf
908K

~~eurofins~~ Enthalpy ~~Calscience~~

7440 Lincoln Way, Garden Grove, CA 92841-1427 ~~(714) 895-5494~~
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 6/14/22

PAGE: ~~8~~ 1 OF ~~8~~ 1

LABORATORY CLIENT: Roux Associates, Inc	CLIENT PROJECT NAME / NUMBER: Etiwanda Commerce Center / 3653.0001L000
ADDRESS: 5150 Pacific Coast Hwy, Suite 450	P.O. NO.:
CITY: Long Beach, CA 90804 STATE: CA ZIP: 90804	PROJECT CONTACT: Matthew Nelson / Mark Nishibayashi
TEL: (818) 726-4265 / (610) 246-3352 / (818) 383-2312 E-MAIL: mnelson@rouxinc.com / dzaragoza@rouxinc.com / mnishibayashi@rouxinc.com	SAMPLER(S): (PRINT) Daniel Zaragoza

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
~~ECI Project #: 57008787~~ D2
Perform Soxhlet extraction but hold for analysis

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082) / 3540C	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Hold extraction				
	Unit-2-LT-10E	6/14/22	1445	Solid	1	X													X				X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/17/22 Time: 1221
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: Time:

06/02/14 Revision

CamScanner

ENTHALPY ANALYTICAL

Analysis Results for 464526

Matthew Nelson
Roux Associates, Inc.
5150 E. Pacific Coast Hwy.
Suite 450
Long Beach, CA 90804

Lab Job #: 464526
Location: Etiwanda Commerce Center / 3653.0001L000
Date Received: 06/17/22

Sample ID: UNIT-2-LT-10E | **Lab ID: 464526-001** | **Collected: 06/14/22 14:45**
Matrix: Soil

464526-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8082 Prep Method: EPA 3541									
Aroclor-1016	ND		ug/Kg	500	5	291885	06/24/22	07/10/22	TJW
Aroclor-1221	ND		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Aroclor-1232	ND		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Aroclor-1242	ND		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Aroclor-1248	ND		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Aroclor-1254	ND		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Aroclor-1260	**1,000**		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Aroclor-1262	ND		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Aroclor-1268	ND		ug/Kg	250	5	291885	06/24/22	07/10/22	TJW
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	70%		%REC	19-121	5	291885	06/24/22	07/10/22	TJW

ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC999376**	**Batch: 291885**
Matrix: Soil	**Method: EPA 8082**	**Prep Method: EPA 3541**

QC999376 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Aroclor-1016	ND		ug/Kg	100	06/24/22	07/10/22
Aroclor-1221	ND		ug/Kg	50	06/24/22	07/10/22
Aroclor-1232	ND		ug/Kg	50	06/24/22	07/10/22
Aroclor-1242	ND		ug/Kg	50	06/24/22	07/10/22
Aroclor-1248	ND		ug/Kg	50	06/24/22	07/10/22
Aroclor-1254	ND		ug/Kg	50	06/24/22	07/10/22
Aroclor-1260	ND		ug/Kg	50	06/24/22	07/10/22
Aroclor-1262	ND		ug/Kg	50	06/24/22	07/10/22
Aroclor-1268	ND		ug/Kg	50	06/24/22	07/10/22
Surrogates				**Limits**		
Decachlorobiphenyl (PCB)	48%		%REC	19-121	06/24/22	07/10/22

Type: Lab Control Sample	**Lab ID: QC999377**	**Batch: 291885**
Matrix: Soil	**Method: EPA 8082**	**Prep Method: EPA 3541**

QC999377 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	246.9	500.0	ug/Kg	49%		14-150
Aroclor-1260	294.7	500.0	ug/Kg	59%		10-150
Surrogates						
Decachlorobiphenyl (PCB)	24.58	50.00	ug/Kg	49%		19-121

Type: Matrix Spike	**Lab ID: QC999378**	**Batch: 291885**
Matrix (Source ID): Soil (464526-001)	**Method: EPA 8082**	**Prep Method: EPA 3541**

QC999378 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aroclor-1016	299.5	ND	500.0	ug/Kg	60%		42-127	5
Aroclor-1260	936.0	996.3	500.0	ug/Kg	-12%	*	38-130	5
Surrogates								
Decachlorobiphenyl (PCB)	26.04		50.00	ug/Kg	52%		19-121	5

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC999379**	**Batch:**	**291885**
Matrix (Source ID):	**Soil (464526-001)**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3541**

QC999379 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Aroclor-1016	312.2	ND	500.0	ug/Kg	62%		42-127	4	30	5
Aroclor-1260	893.0	996.3	500.0	ug/Kg	-21%	*	38-130	5	30	5
Surrogates										
Decachlorobiphenyl (PCB)	27.71		50.00	ug/Kg	55%		19-121			5

* Value is outside QC limits

ND Not Detected

APPENDIX C

Certification

CERTIFICATION

Certification of Self-Implementing PCB Cleanup and Disposal PCB Remediation Waste, 8996 Etiwanda Avenue, Rancho Cucamonga, California

This Certification is being submitted in connection with the Self-Implementing PCB Cleanup and Disposal PCB Notification Plan (the "Plan") for the site located at 8996 Etiwanda Avenue, Rancho Cucamonga, California (the Property).

The party conducting the cleanup described in the Plan, hereby certifies, and has advised the owner of the Property where cleanup is located, that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the Property, are on file at the following location(s) and are available for USEPA inspection:

- 8996 Etiwanda Avenue, Rancho Cucamonga, California

To access these files, please contact Matthew Nelson with Roux Associates, Inc., at mnelson@rouxinc.com to arrange an appointment and identify the specific records to be inspected. BTC III Etiwanda Commerce Center will compile the information requested and make the information available for review in their office or transmit electronic copies directly to the USEPA representative requesting the information.



11.23.22

PROPERTY OWNER
BTC III Etiwanda Commerce Center LP
4675 MacArthur Court, Suite 625
Newport Beach, California 92660

Date



11.23.22

PARTY CONDUCTING THE CLEANUP
Roux Associates, Inc.
5150 East Pacific Coast Highway, Suite 450
Long Beach, California 90804

Date

MEMORANDUM

Date: February 2, 2023

To: Carmen Santos – PCB Coordinator, U.S. EPA Region 9

From: Mark Nishibayashi – Roux Associates, Inc.
Matthew Nelson, PE – Roux Associates, Inc.

Subject: **Response to U.S. Environmental Protection Agency Conditions of Approval for Self-Implementing PCB Cleanup/Disposal Notification Plan – Etiwanda Commerce Center, 8996 Etiwanda Avenue, Rancho Cucamonga, California – PCB Site ID: CAR000038158**

On November 28, 2022, Roux Associates, Inc. (Roux) submitted a revised Self-Implementing Polychlorinated Biphenyl (PCB) Cleanup and Disposal Notification Plan (SICP), on behalf BTC III Etiwanda Commerce Center LP (BTC III), to the United Stated Environmental Protection Agency (USEPA) for the remediation of PCB impacted materials for Former Generating Units 1 and 2 (Site) located at 8996 Etiwanda Avenue, Rancho Cucamonga, California (Property).[1] On December 15, 2022, USEPA issued an approval ("Approval") of the SICP which included certain conditions outlined in Section B.3.

Conditions of approval for which responses were requested within 30 days are summarized in the sections below along with their corresponding responses/clarifications. The following enclosures are also provided:

- Enclosure A Revised SICP Figures
- Enclosure B Revised SICP Tables
- Enclosure C Unit 1-2 Protected Area
- Enclosure D Equipment/Transformer List

1. Cover Letter Comment: Disposal Facilities

Comment: *USEPA requests "the name and address of the disposal facilities that you have selected for disposal of PCB waste at any concentration" "to ensure that use of routes to transport PCB waste from the Etiwanda Site to the offsite disposal facility will not increase the burden of potentially vulnerable communities that may be present near or along those routes."*

BTC III Response: Below are the selected disposal facilities for PCB remediation waste.

PCB Concentrations <50 Parts Per Million (PPM)

La Paz County Landfill
26999 AZ-95
Parker, Arizona 85344

PCB Concentrations 50 to 1,000 PPM

US Ecology Landfill
Hwy 95, 11 Miles S. of,
Beatty, Nevada 89003

[1] An initial SICP, dated August 5, 2022, was submitted to Ms. Carmen Santos, USEPA PCB Coordinator, on August 8, 2022. The USEPA provided comments to Roux during meetings on August 8, 2022, August 23, 2022, and November 18, 2022. Based on direction received from USEPA during these meetings, Roux made revisions to the SICP which were incorporated into the revised SICP, dated November 28, 2022.

Alternate disposal facilities may be selected during implementation of the SICP based on availability and costs.

2. **Section B(3)(f) – Excavation Area Cleanup Verification Sampling Grid Figure**

Condition of Approval: *USEPA requests "a figure showing the cleanup verification sampling grid for that excavation area," referring to "the excavation area related to sample Unit-2-LT-30A (670 mg/kg total PCBs), the excavation area includes sampling locations Unit-2-LT-35A, -35D, -30C, and -25C."*

BTC III Response: The proposed verification sampling grid for the excavation area is shown on Figure 8 (Enclosure A). Verification samples will be collected as composite samples in accordance with 40 CFR §761.289(b)(1)(i) (non-point source cleanup), using a maximum of four discrete samples per composite sample. Table 4 of the SICP has been revised to summarize the verification samples to be collected (Enclosure B).

3. **Section B(3)(f) – Sub-Slab Characterization Sampling Grid Figure and Table**

Condition of Approval: *USEPA requests "a revision of [SICP] Figure 7 depicting the discrete soil samples that it will collect beneath the concrete and asphalt that it will remove. The Owner must also correct Note 4 in Figure 7 by changing 'verification samples' to 'characterization samples.' The Owner must also email to EPA a revised [SICP] Table 4 showing each sample listed in that table as a discrete sample (not as composite samples)."*

BTC III Response: The proposed characterization sampling grid for the soil beneath the PCB-impacted concrete and asphalt areas is shown on the revised Figure 7 (Enclosure A). Characterization samples will be collected as discrete samples on a 10-foot by 10-foot grid in accordance with 40 CFR §761.265(a). Table 6 (Enclosure B) has been prepared for the SICP to identify the discrete characterization samples to be collected following removal of the PCB-impacted concrete and asphalt. Table 5 (Enclosure B) of the SICP has been revised to indicate the discrete soil characterization samples to be collected to delineate the extent of PCB impacts in the northwest part of the cleanup area.

4. **Section B(3)(h) – Figure Depicting Soil to Be Protected in Place**

Condition of Approval: *USEPA requests "a figure depicting all the soil areas that it will protect in place."*

BTC III Response: Figure A (Enclosure C) depicts the current soil protection area. Final protection areas cannot be established until soil characterization is complete. Therefore, Roux requests an extension for submittal of a figure depicting the final soil protection areas to 30 days following the receipt of soil characterization sample results.

5. **Section B(3)(k) – Clarification to Composite Sample Reference**

Condition of Approval: *USEPA requests clarification "of the reference to 40 CFR §761.289(b)(i) in Section 5.3 of the SICP in reference to composite sample preparation."*

BTC III Response: The reference to 40 CFR §761.289(b)(i) in Section 5.3 of the SICP is a typo. The text in Section 5.3 should refer to 40 CFR §761.289(b)**(1)**(i).

6. **Section B(3)(m) – Confirmation of Decontamination Standard for Water with PCBs**

Condition of Approval: *USEPA requests confirmation of "the decontamination standard that [BTC III] will apply to water that has PCBs, if it generates such water during decontamination*

activities and/or during implementation of the soil protection measures covered in the above condition B.3."

BTC III Response: Water potentially generated during decontamination activities will be drummed, sampled, profiled, and disposed of offsite by an appropriate disposal contractor.

Water potentially generated during implementation of the soil protection measures, identified in Section 4.3.2 of the SICP, will be handled using the decontamination standard of <3 micrograms per liter (µg/l) or a PCB discharge limit included in a permit issued under section 307(b) or 402 of the Clean Water Act, as stated in 40 CFR §761.79(b)(1)(ii), for any water discharged to a treatment works or to navigable waters. Water intended for unrestricted use will meet the ≤0.5 µg/l standard for unrestricted use, as stated in 40 CFR §761.79(b)(1)(iii).

7. Section B(3)(n) – Decontamination Procedures

Condition of Approval: *USEPA requests "the risk-based alternative decontamination application for EPA approval that follows the requirements in 40 CFR 761.79(h)(2)."*

BTC III Response: A risk-based alternative decontamination procedure is no longer requested. Equipment decontamination will be conducted following self-implementing decontamination procedures in accordance with 40 CFR §761.79(c)(2).

8. Section F - Responses to USEPA E-Mail Comments and Clarifications

The USEPA provided initial comments and inquiries in response to the SICP via e-mail correspondence dated November 28 and 30, and December 1, 2022. Section F of the Approval requests that responses to the comments and inquires in the e-mails referenced above be provided to USEPA within 30 days after the date of the Approval. Comments provided by USEPA in each e-mail are summarized below along with corresponding responses/clarifications.

November 28, 2022, Email Sent at 11:53 A.M.

Comment: *Regarding the below text from the revised notification, please note that changes to equipment decontamination self-implementing procedures are done under 761.79(h).*

"This SICP is a hybrid plan including aspects from the Self-Implementing requirements of 40 CFR §761.61(a) and Risk-Based Approval requirements of 40 CFR §761.61(c). Risk-Based Approval is requested in the following sections, as noted in the Section title ["Risk-Based Approval §761.61(c)"]:

- ***Section 4.3.7****: Equipment Decontamination*
- ***Section 5.1****: Grid Size; and*
- ***Section 5.6****: Decontamination Procedures."*

BTC III Response: Noted. As described in our response to USEPA's condition of approval outlined in Section B(3)(n) above, a risk-based decontamination process is no longer being requested.

November 28, 2022, Email Sent at 12:36 P.M.

Comment: *I was not able to find Appendix C to the notification. If not included please send the written certification signed by the property owner and the cleanup party right away. Without that information, the notification is incomplete.*

BTC III Response: Roux provided the signed certification for the Etiwanda SICP to USEPA in an e-mail dated November 28, 2022, at 12:51 P.M.

November 30, 2022, Email Sent at 11:01 A.M.

Comment: *Regarding the revised notification, is section 3.4 (Decontamination procedures) a request for an approval under 761.79(h)? Please clarify the 40 CFR 761.79(h) paragraph that Section 3.4 refers to as it is not mentioned in that Section. Please note that prior to its use, EPA has to approve the proposed decontamination procedure. Based on the text in Section 3.4 the decontamination procedure was used before EPA approval under 761.79(h).*

BTC III Response: As described in the response to USEPA's condition of approval outlined in Section B(3)(n) above, a risk-based decontamination process is no longer being requested.

December 1, 2022, Email Sent at 5:55 A.M.

Comment #1: *Regarding 79(h), please note that concurrence with the sampling plan did not mean approval of the plan or any other matter associated with the plan. A 79(h) pilot study should be approved by EPA (Division Director level) before it is conducted and the proposed procedure for decontamination is approved by EPA (at same management level as the pilot study) based on whether the pilot study results showed the procedure was effective in decontaminating the material to a PCB level adequate for unrestricted use or other level specified in the PCB regulations and applicable to the material being decontaminated.*

BTC III Response #1: Noted.

Comment #2: *Regarding the initial characterization, please confirm the number of discrete samples of concrete that were combined into one composite sample and extraction method used.*

BTC III Response #2: Individual coring locations that make up each composite sample area are depicted on Figure 4 of the revised SICP and described below.

Composite Sample ID	Number of Discrete Samples Combined into the Composite Sample	Extraction Method
Sample Unit-1-SST(S)	12	3546
Sample Unit-2-LT	13	3546
Sample Unit-2-SST_SO-W-W	7	3546
Sample Unit-2-SST_SO-W-S	12	3546

Subsequent discrete sampling/characterization was performed using Soxhlet extraction method (3540C) and results were reported on a dry-weight basis.

Comment #3: *Regarding known soils with PCB contamination that will remain in place temporarily until Phase 2 or Phase 3, please clarify how the soils will be covered to prevent stormwater runoff. Also, please clarify if stormwater runoff is generated during a rainfall event, how will the runoff be collected? If collected, the stormwater runoff and any "sediments" would need to be tested for PCBs.*

BTC III Response #3: As described in Section 4.3.2 of the revised SICP, soils temporarily remaining in place will be protected from precipitation and/or stormwater

runoff by placing a nonwoven geotextile on the ground surface, covered by 6-mil polyethylene plastic sheeting. The geotextile and plastic sheeting will be held in place by hay bales and stakes (as recommended by USEPA in Section B(3)(h) of the Approval) or gravel bags placed at a minimum of every 10 feet.

As requested in Section B(3)(h) of the Approval, an earthen berm will be constructed surrounding the area protected in place to prevent flow of stormwater onto the protected area.

The surrounding area will generally consist of exposed ground surface, where stormwater is expected to infiltrate directly.

December 1, 2022, Email Sent at 7:10 A.M.

Comment #1: *"A combination of the above-listed options [Section 4 of the SICP] (removal or capping) for Phase 3 may be used, depending on final characterization results and redevelopment plans. Additional details and rationale of the recommended cleanup approach are presented in the sections that follow."*

The parenthetical through me off. Please confirm if this means a combination of removal and capping may be implemented at the cleanup site under one specific phase.

BTC III Response #1: Phase 3 will be the subject of a separate submittal to USEPA as requested in condition B(3)(a) of the Approval.

Comment #2: *Also, a schedule for implementation of the three phases should be provided given that it will take until or after Phase 3 to remove soils contaminated with PCBs or to cap such soils.*

BTC III Response #2: Commencement of SICP implementation is on hold pending USEPA approval of reuse of concrete and asphalt outside of the delineated areas at Former Generating Units 1 and 2. Therefore, Roux requests an extension for providing an implementation schedule until 30 days following the receipt of USEPA approval.

Comment #3: *"It is proposed to not shift the grid as required by 40 CFR §761.283 (b)(1)(ii) where resampling is needed in order to simplify and streamline the sampling process and data management. The proposed grid is shown on Figure 7."*

"The reasons not to shift the grid as required in Subpart O are not technical reasons. Please give me a justifiable technical reason for deviating from the Subpart O verification sampling grid requirements when recleaning is necessary.

BTC III Response #3: Approval to deviate from the requirements of Subpart O is no longer being requested.

December 1, 2022, Email Sent at 10:32 A.M.

Comment #1: *The PCB regulations do not have a 761.286(d) provision. Are you referring to 40 CFR 761.283(d)? In addition, please note that 40 CFR 761.298 describes the procedure that must be followed to evaluate the results of composite samples. Please clarify Section 5.2.*

BTC III Response #1: The regulatory reference in Section 5.2 included a typo; Section 5.2 should have referred to 40 CFR §761.283(d). Sample results will be evaluated in accordance with the requirements specified in 40 CFR §761.298:

- For grid samples which are chemically analyzed individually, the PCB concentration will apply to the area of inference as described in 40 CFR §761.283(d); and
- For grid samples analyzed as part of a composite sample, the PCB concentration will apply to the area of inference of the composite sample as described in 40 CFR §761.283(d) (i.e., the area of inference is the total of the areas of the individual samples included in the composite).

Comment #2: *40 CFR 761.289(b)(i) is not a regulatory provision in the regulations. Are you referring to 761.289(b)(1)(i)? Please clarify and also explain why 761.289(b)(2) would not be applicable.*

BTC III Response #2: The regulatory reference in Section 5.3 included a typo; Section 5.3 should have referred to 40 CFR §761.289(b)(1)(i).

40 CFR §761.289(b)(2) is not applicable, as it describes procedures for compositing samples collected at small cleanup sites in accordance with 40 CFR §761.283(c). As noted above, sample collection will be performed in accordance with 40 CFR §761.283(b).

Comment #3: *EPA considers for approval proposed changes to self-implementing decontamination procedures under 761.79(h) not 761.61(c). It is not clear what Section 5.6 is conveying or trying to achieve. Are you asking EPA to approve the use of a non-phosphate detergent for decontamination? If so, you need to tell us what is the detergent that you want EPA to approve instead of giving an example. A specific detergent was used in the quasi pilot study conducted without EPA approval. The detergent that was used in that study must be included in the request for an EPA approval under 761.79(h). Also, please verify if the wipe samples that you collected as part of the study were collected from the tools or equipment that was exposed to the highest PCB concentrations found in concrete and soil.*

BTC III Response #3: A risk-based decontamination process is no longer being requested. Self-implementing decontamination will be conducted in accordance with 40 CFR §761.79(c)(2).

9. Section F – Summary of Soil Removals

Comment: *USEPA requests a summary of all soil removals conducted at Former Units 1 and 2 including whether PCBs were a constituent of concern, and related PCB analytical results.*

BTC III Response: There have been no soil removals in the area of Former Generating Units 1 and 2 to date.

10. Section F – Summary of PCB Analytical Results and Equipment Removed

Comment: *USEPA requests a list of equipment removed from the Etiwanda Site such as compressors. Please send that information also for Units 3 and 4.*

BTC III Response: Attached in Enclosure D is a list of the transformers that were removed from the Property by BTC III and its contractors. Equipment that previous property owners/operators had removed prior to BTC III's ownership of the Property is documented in the December 2018 Closure Report for GenOn Etiwanda Generating Station, prepared by ERM-West, Inc. on behalf of GenOn (the previous owner of the Property).

Enclosures

Enclosure A – Revised SICP Figures
- Figure 7 – Proposed Soil Characterization Sampling Plan – Former Transformers Units 1 & 2
- Figure 8 – Former Unit-2-LT Soil Cleanup – Proposed Verification Sampling Locations
- Figure 9 – Proposed On-Site Storage Area

Enclosure B – Revised SICP Tables
- Table 4 – Request for Analysis – Soil Verification Samples
- Table 5 – Request for Analysis – Soil Characterization Samples
- Table 6 – Request for Analysis – Sub-Slab Soil Characterization Samples

Enclosure C – Unit 1-2 Protection Area
- Figure A – Unit 1-2 Protection Area

Enclosure D – Transformer/Equipment List
- List of Transformers Removed from the Property

ENCLOSURES

A. Revised SICP Figures

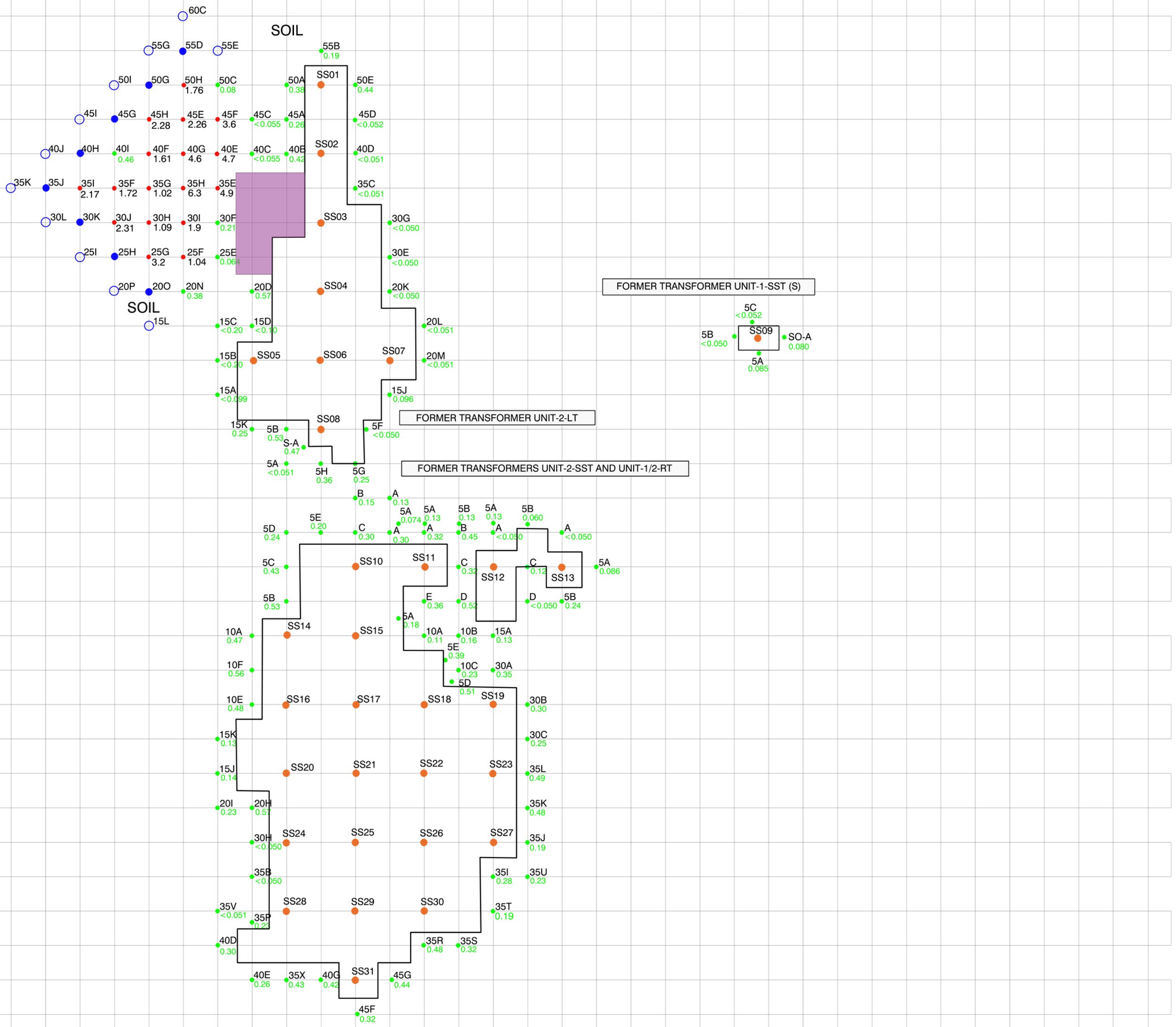
B. Revised SICP Tables

C. Unit 1-2 Protection Area

D. Transformer/Equipment List

ENCLOSURE A – Revised SICP Figures

Figure 7 - Proposed Soil Characterization Sampling Plan
Former Transformers Units 1 & 2
Figure 8 - Former Unit-2-LT Soil Cleanup – Proposed Verification Sampling Locations
Figure 9 - Proposed On-Site Storage Area



LEGEND

- SOIL CHARACTERIZATION SAMPLE
- SOIL CHARACTERIZATION SAMPLE (TO BE PLACED ON HOLD)
- SUB-SLAB SOIL CHARACTERIZATION SAMPLING LOCATION
- CHARACTERIZATION SAMPLING LOCATION (TOTAL PCBs ≤ 1 MG/KG)
- CHARACTERIZATION SAMPLING LOCATION (TOTAL PCBs > 1 MG/KG)
- EXTENT OF PCB CLEANUP IN CONCRETE AND ASPHALT
- SOIL CLEANUP AREA

NOTES

1. ALL SAMPLE LOCATIONS ARE APPROXIMATE
2. GRID SPACING IS 5 FEET BY 5 FEET
3. SOIL CHARACTERIZATION SAMPLING TO BE CONDUCTED FOLLOWING CONCRETE AND ASPHALT REMOVAL (PHASE 1). SOIL CHARACTERIZATION SAMPLES WILL BE DISCRETE SAMPLES COLLECTED AT THE GRID LOCATIONS SHOW. ADDITIONAL STEP-OUT SAMPLES WILL BE COLLECTED ON A 5-FOOT GRID AS NEEDED TO DELINEATE THE EXTENT OF PCB IMPACTS IN SOIL.
4. SUB-SLAB SOIL CHARACTERIZATION SAMPLES WILL BE COLLECTED ON A 10 FOOT BY 10 FOOT GRID (AS SHOWN).

N

10' 0' 10'

Title:

PROPOSED SOIL CHARACTERIZATION SAMPLING PLAN
FORMER TRANSFORMERS UNITS 1 & 2

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for:

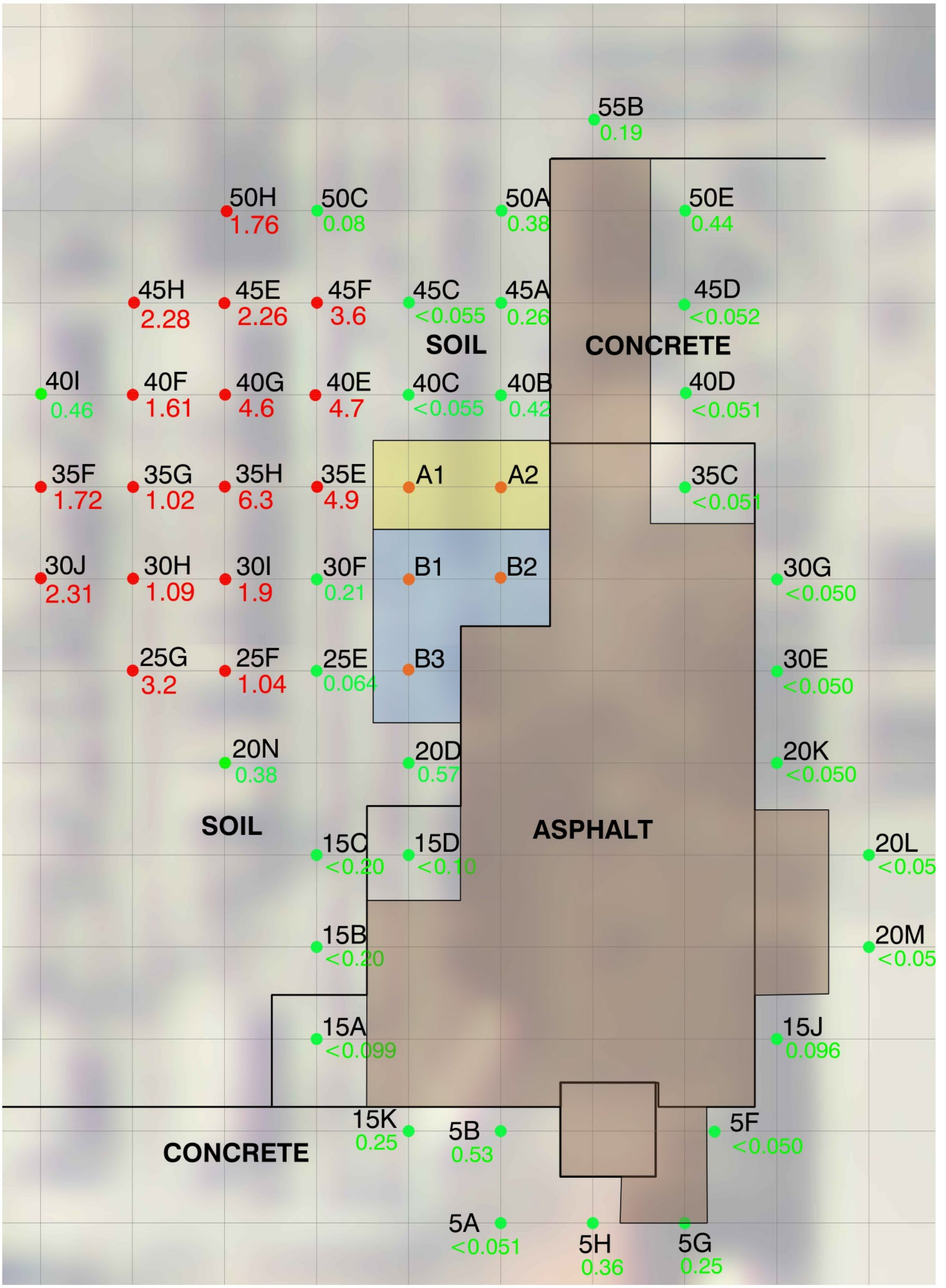
BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: M.H.N.	Date: 6 JAN 2023	FIGURE
Prepared by: M.H.N.	Scale: 1" = 10'	7
Project Mgr: M.J.N.	Project: 3653.0001L000	
File: S23_3653.0001L_SUB-SLAB SOIL CHARACTERIZATION SAMPLING.DWG		

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\023_3653.0001L_SUB-SLAB SOIL CHARACTERIZATION SAMPLING.DWG

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\022_3653.0001L_SOIL VERIFICATION SAMPLING.DWG



LEGEND

- SOIL VERIFICATION SAMPLE LOCATION
- CHARACTERIZATION SAMPLING LOCATION (TOTAL PCBs ≤ 0.58 MG/KG)
- CHARACTERIZATION SAMPLING LOCATION (TOTAL PCBs > 0.58 MG/KG)
- CONCRETE / ASPHALT CLEANUP AREA

NOTES

1. ALL SAMPLE LOCATIONS ARE APPROXIMATE.
2. GRID SPACING IS 5 FEET BY 5 FEET.
3. VERIFICATION SAMPLING TO BE CONDUCTED USING COMPOSITE SAMPLING IN ACCORDANCE WITH 40 CFR 761.289 (b)(1)(i) (NON-POINT SOURCE CLEANUP), USING A MAXIMUM OF FOUR DISCRETE SAMPLES PER COMPOSITE SAMPLE.

N

5' 0 5'

Title:

FORMER UNIT-2-LT SOIL CLEANUP PROPOSED VERIFICATION SAMPLING LOCATIONS

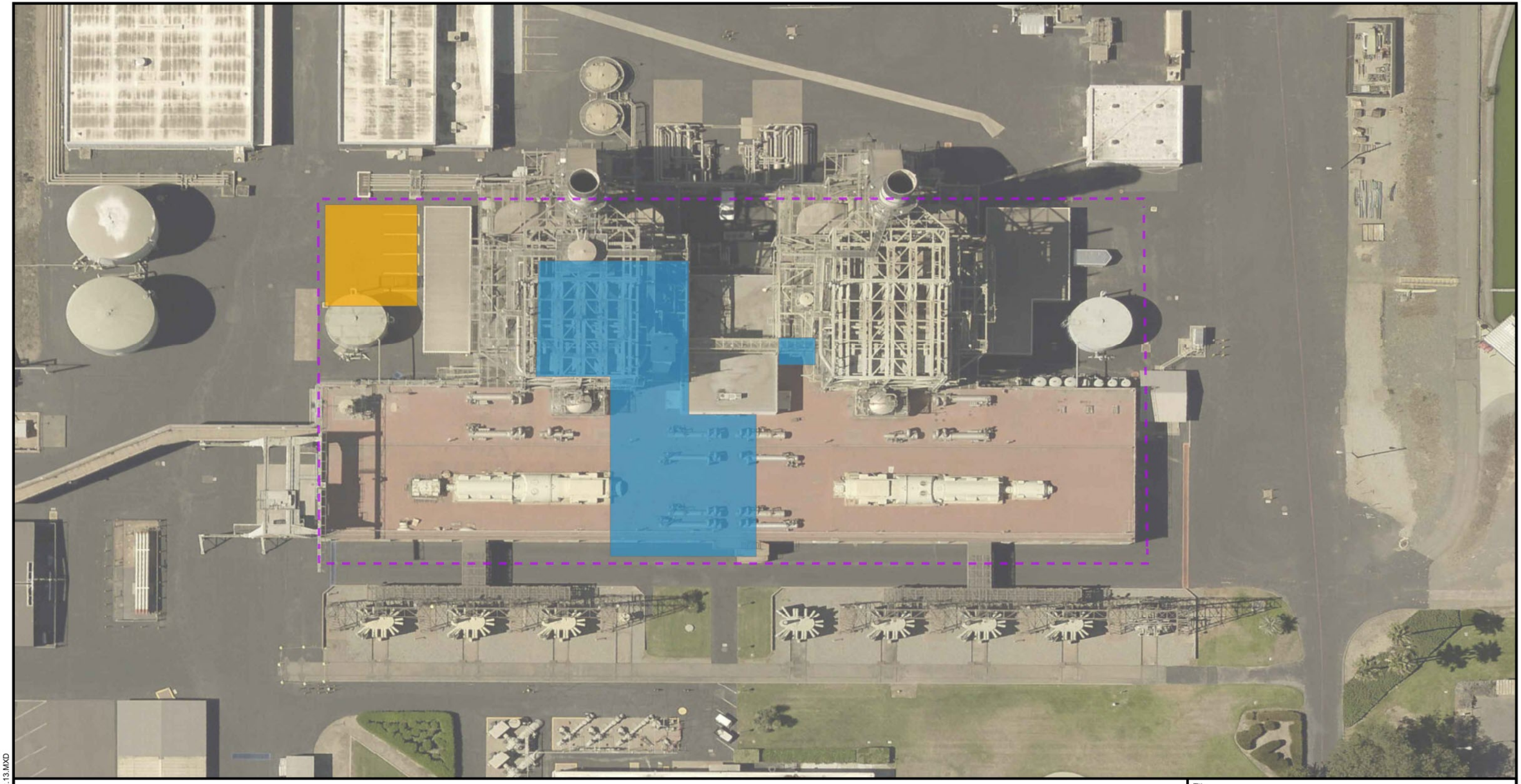
8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for

BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: MHN	Date: 6 JAN 2023	FIGURE
Prepared by: MHN	Scale: AS SHOWN	8
Project Mgr: MJN	Project: 3653.0001L	
File: 022_3653.0001L_SOIL VERIFICATION SAMPLING.DWG		



LEGEND

- UNIT 1 & 2 AREA
- PCB CLEANUP AREA
- APPROXIMATE LOCATION OF CONEX-STYLE WASTE/PPE CONTAINER

N

50 0 50'

Title:

PROPOSED ON-SITE STORAGE AREA

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CALIFORNIA

Prepared for:

BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: M.H.N.	Date: 01/27/23	FIGURE
Prepared by: M.H.N.	Scale: AS SHOWN	9
Project Mgr: M.J.N.	Project: 3653.0001L000	
File: 3653.0001L102.13.mxd		

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ENCLOSURE B – Revised SICP Tables

Table 7 - Request for Analysis – Soil Verification Samples
Table 8 - Request for Analysis – Soil Characterization Samples
Table 9 - Request for Analysis – Sub-Slab Soil Characterization Samples

Table 4
Request for Analysis - Soil Verification Samples
8996 Etiwanda Avenue, Rancho Cucamonga, CA

ANALYSES REQUESTED			Polychlorinated Biphenyls
METHOD			Extraction: EPA Method 3500C/3540C Analysis: EPA Method 8082A1[(a)]
LABORATORY			Eurofins
CONTAINER TYPE			4 oz. jar
PRESERVATIVES			4°C; Cool
ANALYTICAL HOLDING TIMES			Extraction: 14 days Analysis: 40 days
NO. BOTTLES PER ANALYSIS			1
SAMPLE ID	**DISCRETE LOCATION[(b)]**	**SAMPLE TYPE**	
UNIT 2 LT			
COMP A	A1	Soil	1
	A2	Soil	1
COMP B	B1	Soil	1
	B2	Soil	1
	B3	Soil	1
SUBTOTAL			**5**
QUALITY ASSURANCE / QUALITY CONTROL (QA/QC) SAMPLES			
Duplicate[(c)]			1
Matrix Spike / Matrix Spike Duplicate[(d)]			1
TOTAL			**7**

(a) Results will be reported on a dry weight basis.
(b) Composite areas and discrete sample locations are shown on Figure 8.
(c) Duplicate samples will be collected at a rate of 10 percent of the samples collected.
(d) Project specific matrix spike / matrix spike duplicate (MS/MSD) samples will be collected at a frequency of one per 20 samples. MS/MSD samples will be indicated on the chain-of-custody.

Table 5
Request for Analysis - Soil Characterization Samples
8996 Etiwanda Avenue, Rancho Cucamonga, CA

ANALYSES REQUESTED		Polychlorinated Biphenyls
METHOD		Extraction: EPA Method 3500C/3540C Analysis: EPA Method 8082A1[a]
LABORATORY		Eurofins
CONTAINER TYPE		4 oz. jar
PRESERVATIVES		4°C; Cool
ANALYTICAL HOLDING TIMES		Extraction: 14 days Analysis: 40 days
NO. BOTTLES PER ANALYSIS		1
SAMPLE ID[b]	SAMPLE TYPE	
UNIT 2 LT		
Unit-2-LT-15L	Soil	HOLD[c]
Unit-2-LT-20O	Soil	1
Unit-2-LT-20P	Soil	HOLD
Unit-2-LT-25H	Soil	1
Unit-2-LT-25I	Soil	HOLD
Unit-2-LT-30K	Soil	1
Unit-2-LT-30L	Soil	HOLD
Unit-2-LT-35J	Soil	1
Unit-2-LT-35K	Soil	HOLD
Unit-2-LT-40H	Soil	1
Unit-2-LT-40J	Soil	HOLD
Unit-2-LT-45G	Soil	1
Unit-2-LT-45I	Soil	HOLD
Unit-2-LT-50G	Soil	1
Unit-2-LT-50I	Soil	HOLD
Unit-2-LT-55D	Soil	1
Unit-2-LT-55E	Soil	HOLD
Unit-2-LT-55G	Soil	HOLD
Unit-2-LT-60C	Soil	HOLD
SUBTOTAL		8
QUALITY ASSURANCE / QUALITY CONTROL (QA/QC) SAMPLES		
Duplicate[d]		1
Matrix Spike / Matrix Spike Duplicate[e]		1
TOTAL		10

(a) Results will be reported on a dry weight basis.
(b) Discrete sample locations are shown on Figure 7.
(c) HOLD - Samples will be collected and placed on hold with the laboratory pending results of the initial characterization samples.
(d) Duplicate samples will be collected at a rate of 10 percent of the samples collected.
(e) Project specific matrix spike / matrix spike duplicate (MS/MSD) samples will be collected at a frequency of one per 20 samples. MS/MSD samples will be indicated on the chain-of-custody.

Table 6
Request for Analysis - Sub-Slab Soil Characterization Samples
8996 Etiwanda Avenue, Rancho Cucamonga, CA

ANALYSES REQUESTED		Polychlorinated Biphenyls
METHOD		Extraction: EPA Method 3500C/3540C Analysis: EPA Method 8082A1[(a)]
LABORATORY		Eurofins
CONTAINER TYPE		4 oz. jar
PRESERVATIVES		4°C; Cool
ANALYTICAL HOLDING TIMES		Extraction: 14 days Analysis: 40 days
NO. BOTTLES PER ANALYSIS		1
SAMPLE ID[(b)]	SAMPLE TYPE	
UNIT 2 LT		
SS-1	Soil	1
SS-2	Soil	1
SS-3	Soil	1
SS-4	Soil	1
SS-5	Soil	1
SS-6	Soil	1
SS-7	Soil	1
SS-8	Soil	1
UNIT 1 SST(S)		
SS-9	Soil	1
UNIT 2 SST AND 1/2 RT		
SS-10	Soil	1
SS-11	Soil	1
SS-12	Soil	1
SS-13	Soil	1
SS-14	Soil	1
SS-15	Soil	1
SS-16	Soil	1
SS-17	Soil	1
SS-18	Soil	1
SS-19	Soil	1
SS-20	Soil	1
SS-21	Soil	1
SS-22	Soil	1
SS-23	Soil	1
SS-24	Soil	1
SS-25	Soil	1
SS-26	Soil	1
SS-27	Soil	1
SS-28	Soil	1
SS-29	Soil	1

Table 6
Request for Analysis - Sub-Slab Soil Characterization Samples
8996 Etiwanda Avenue, Rancho Cucamonga, CA

ANALYSES REQUESTED		Polychlorinated Biphenyls
METHOD		Extraction: EPA Method 3500C/3540C Analysis: EPA Method 8082A1[(a)]
LABORATORY		Eurofins
CONTAINER TYPE		4 oz. jar
PRESERVATIVES		4°C; Cool
ANALYTICAL HOLDING TIMES		Extraction: 14 days Analysis: 40 days
NO. BOTTLES PER ANALYSIS		1
SAMPLE ID[(b)]	SAMPLE TYPE	
SS-30	Soil	1
SS-31	Soil	1
SUBTOTAL		31
QUALITY ASSURANCE / QUALITY CONTROL (QA/QC) SAMPLES		
Duplicate[(c)]		4
Matrix Spike / Matrix Spike Duplicate[(d)]		2
TOTAL		37

(a) Results will be reported on a dry weight basis.
(b) Discrete sample locations are shown on Figure 7.
(c) Duplicate samples will be collected at a rate of 10 percent of the samples collected.
(d) Project specific matrix spike / matrix spike duplicate (MS/MSD) samples will be collected at a frequency of one per 20 samples. MS/MSD samples will be indicated on the chain-of-custody.

ENCLOSURE C – Unit 1-2 Protection Area

Figure A - Unit 1-2 Protection Area

PCB Affected Concrete Slab

Earthen Berm (Approximately 18-inches tall)

Existing retaining wall (approximately 1 foot tall)

PROJECT NAME Etiwanda Generating Station	ORIGINAL DRAWING	DRAWN BY	CHECKED BY	SKETCH NUMBER **A**
PROJECT NUMBER	ISSUED WITH	DATE		

ENCLOSURE D – Transformer/Equipment List

List of Transformers Removed from the Property

Table 1
Oil Inventory
Etiwanda Generating Station

Container I.D	Substance Stored (Oil & Haz. Substance)	Maximum Capacity (Gallons)	Tank Type (I.e. floating roof, fixed roof, etc.)
Oil-Filled Equipment			
Unit 1 Station Service Trans.	Transformer Oil	610	Transformer
Unit 1 Lighting Transformer	Transformer Oil	228	Transformer
Unit 2 Station Service Trans.	Transformer Oil	610	Transformer
Unit.2 Lighting Transformer	Transformer Oil	228	Transformer
Unit 3 Station Service Trans.	Transformer Oil	1,069	Transformer
Unit 4 Station Service Trans.	Transformer Oil	1,069	Transformer
Unit 4 Cool. Tower East Sub. Trans.	Transformer Oil	370	Transformer
Unit 4 Cool. Tower West Sub. Trans.	Transformer Oil	370	Transformer
Units 3 & 4 66KV Reserve Trans.	Transformer Oil	3,320	Transformer
Unit 5 Station Service Trans	Transformer Oil	399	Transformer
Cooling Tower Make- up Sub North Trans.	Transformer Oil	200	Transformer
Cooling Tower Make- up Sub. South Trans.	Transformer Oil	200	Transformer
East Well Water Pump Transformer	Transformer Oil	270	Transformer
Center Well Water Pump Transformer	Transformer Oil	270	Transformer
West Well Water Pump Transformer	Transformer Oil	270	Transformer

ETIWANDA COMMERCE CENTER

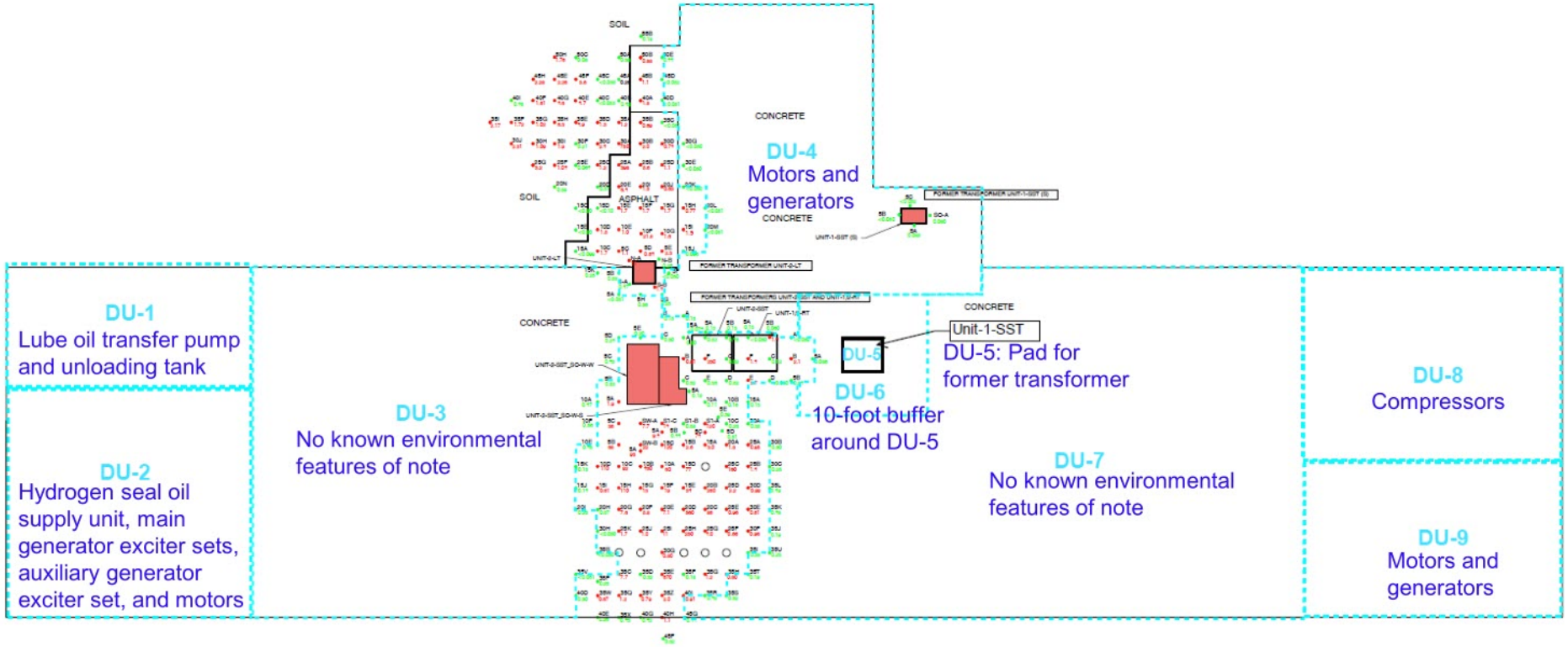
PCB CLEAN-UP PLAN UPDATE

May 3, 2023

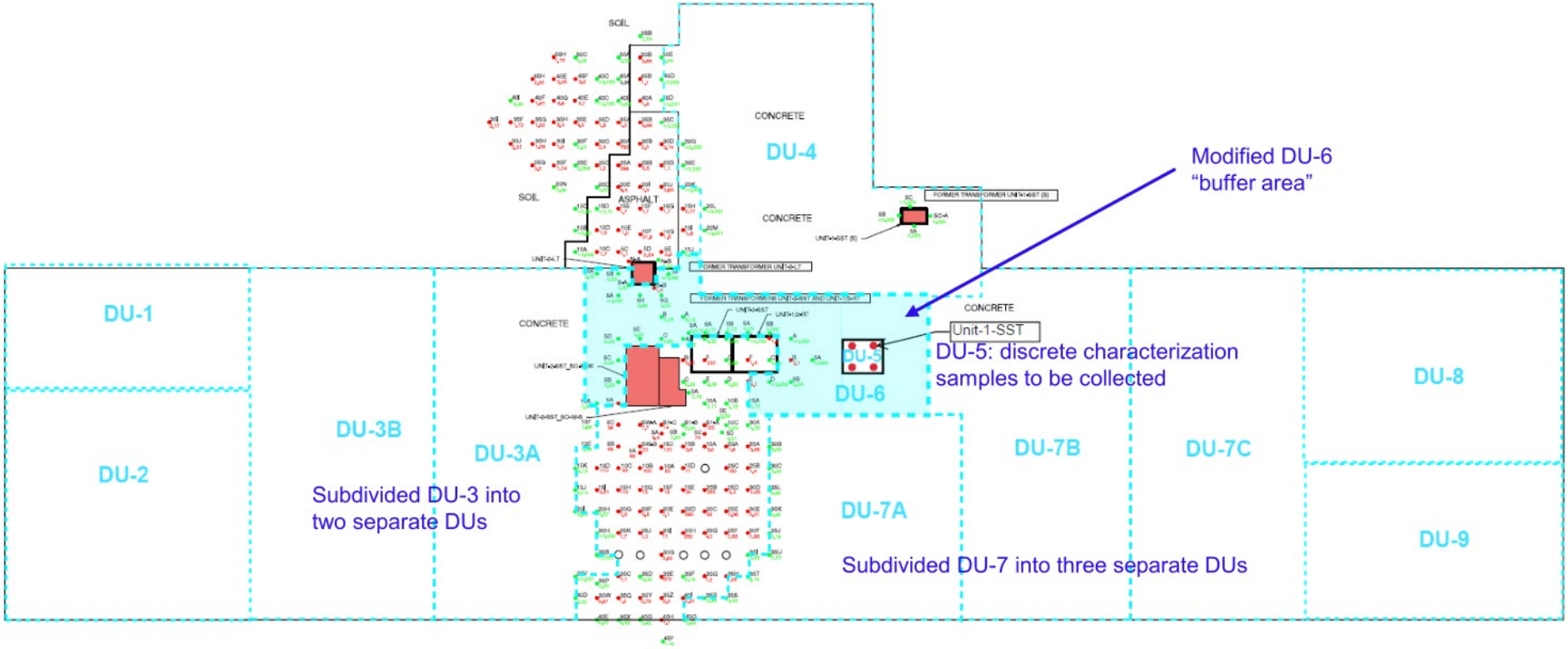
Agenda

1. Updated conceptual characterization plan
2. Response to USEPA comments dated April 25, 2023

Conceptual Characterization Plan: Original Proposed Decision Units



Conceptual Characterization Plan: Revised Proposed Decision Units



Response to USEPA Comments

Comment 3: Increment Design: The plan should describe the rationale for using 30 increments to characterize PCBs in concrete. This design is consistent with ITRC's ISM-2 sampling protocol. However, as observed by several practitioners (such as Hawaii Department of Health), PCB-contaminant distribution is more heterogenous in soils than metals and recommend 75 increments or more. We recommend that:

a. If the consultant is proposing 30 increments based on scientific literature, they should cite the publication in the plan.
b. If no literature is available, the consultant should prove 30 increments can consistently meet the data quality objectives by performing a pilot test (also called demonstration of methods applicability). This pilot should be performed prior to site characterization implementation and should be targeted in an area of significant uncertainty (DU-6 seems ideal).

Response:

- No pilot test is proposed.
- Per ITRC ISM guidance, Visual Sample Plan (VSP) software was used to establish a statistical rationale for the number of increments necessary to accurately characterize each DU using ISM.

→→ **VSP recommends minimum of 42 samples per DU based on site-specific inputs and specifications.**

- Concrete characterization plan will include an attachment describing statistical rationale for increment design.

Response to USEPA Comments

Comment 1: Replicates/Triplicates: The Decision Units (DUs) should include replicates/triplicates. Triplicates should be used to verify uncertainties in the ISM design. Therefore, at a minimum, we recommend:

a. One triplicate for a likely low to no PCB concentration DU (based on draft plan, DU-8 and DU-9 appear to be good candidates)

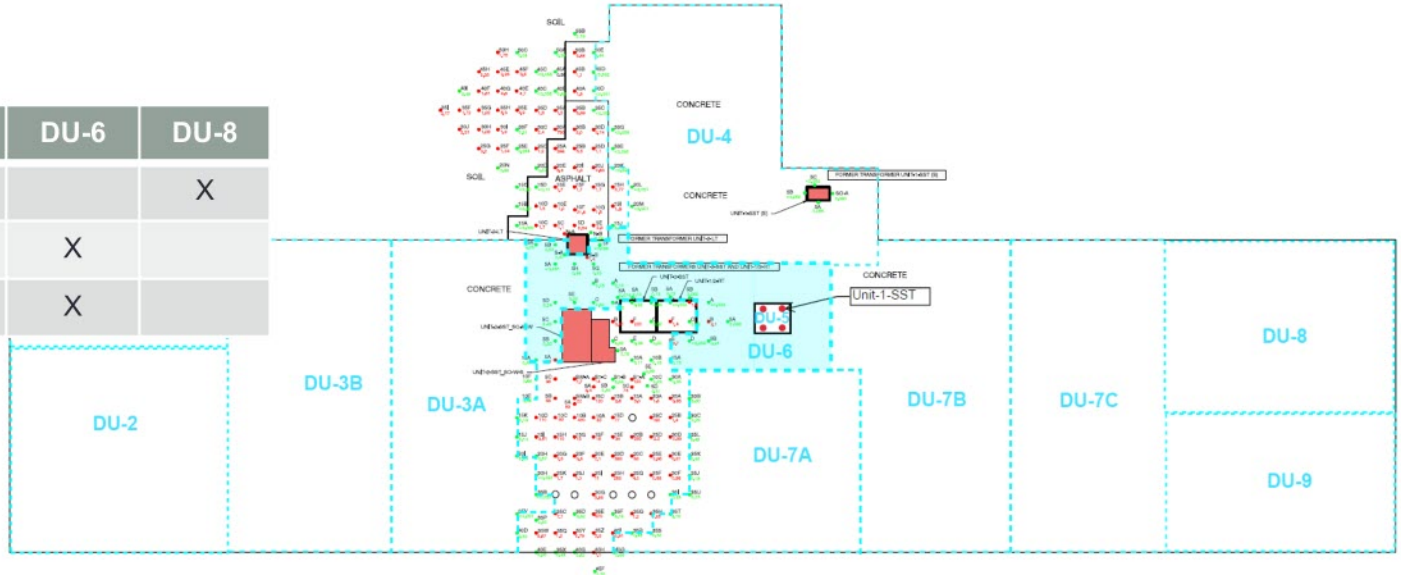
b. One triplicate for a high PCB concentration DU (DU-5 seems ideal)

c. Triplicates for all 'boundary' DUs (DU-3, DU-4, DU-6, and DU-7 appear to be good candidates)

Response:

- Proposed triplicates:

	DU-6	DU-8
Likely low PCB concentration		X
Likely high concentration	X	
Buffer area DUs	X	



Response to USEPA Comments

Comment 5: Field and Laboratory Quality Control Samples: During the March 17 meeting with Etiwanda, EPA mentioned among other things that Etiwanda needs to add to its plan field quality control (e.g., triplicates) and laboratory quality control samples (e.g., triplicates) for PCB analysis. The plan should also include the statistics to evaluate the results of field and laboratory triplicates.

Response:

- Field and laboratory triplicates will be included in the plan.
  - Field triplicates as described on previous slide
  - 1 laboratory triplicate
- Evaluation of results will be conducted in accordance with ITRC ISM guidance
  - Single sample DUs: Compare ISM sample result to action levels.
  - Triplicate sample DUs: Compare 95% UCL (using ITRC-generated spreadsheet) to action levels.
- Action levels

Response to USEPA Comments

Comment 2b: DU Boundary Design:

b. All DUs should be verified and modified with a walkthrough or survey of the concrete surface. During the walkthrough, cracks, slopes in the concrete, and stains should be noted, photographed, and the DU design should be adjusted.

Response:

- Discussion

Response to USEPA Comments

Comment 2c: DU Boundary Design:

c. The plan should describe the rationale for the 10-foot buffer area. The buffer area should be consistent with the likely spill zone and verified with employees that have observed leaks and spills.

Response:

- Discussion

Response to USEPA Comments

Comment 2a: DU Boundary Design:

a. DU-3, DU-4 and DU-7 are large for making decisions about disposal, which the contractor acknowledges in that they propose splitting these into smaller DUs if they fail. We suggest dividing DU-3, DU-4, and DU-7 into smaller DUs to include a buffer area, similar to the DU-5 and DU-6 approach.

Response:

- DU-3 and DU-7 will be subdivided, with subdivision lines oriented north-south.

Response to USEPA Comments

Comment 4: DU Failure: Under subsection 5d of the Proposed ISM Procedure, clarification is needed for the statement "Owner may elect to subdivide existing DUs into smaller areas and resample in accordance with above-listed procedure in order to limit the volume of materials to be disposed of offsite." We recommend:

a. Outlining a procedure on how an area will be subdivided.
b. A regulatory approval process for the redesign.

Response:

- Discussion

ETIWANDA COMMERCE CENTER

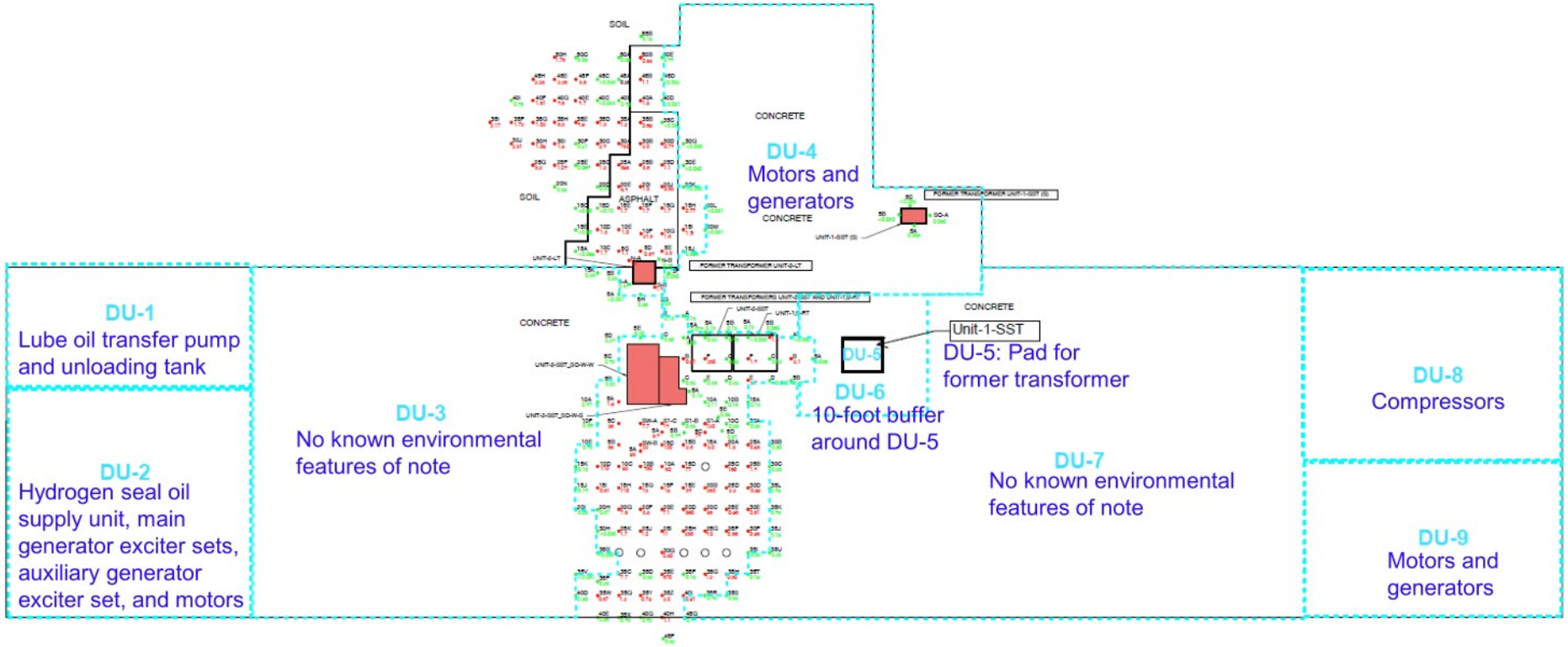
PCB CLEAN-UP PLAN UPDATE

May 5, 2023

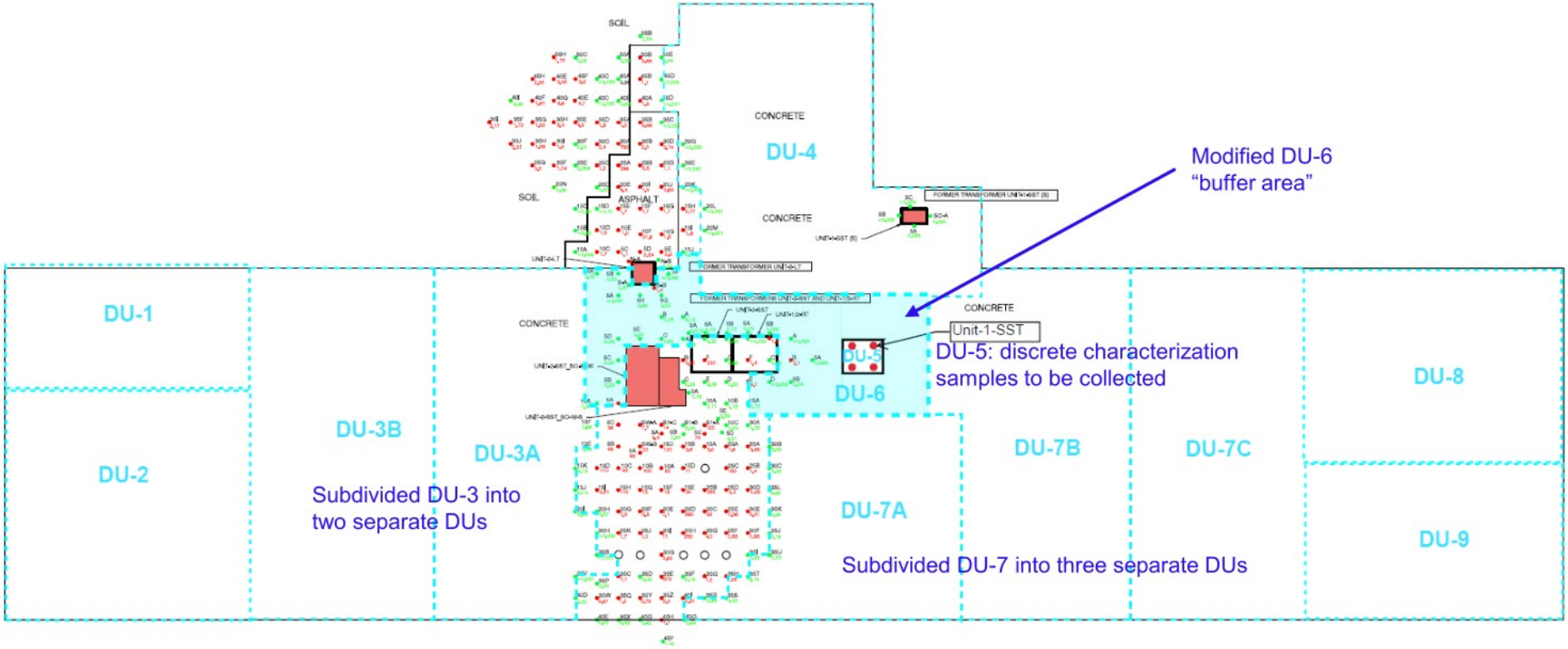
Agenda

1. Revisit updated conceptual characterization plan
2. Response to USEPA comments dated April 25, 2023 (continuation of May 3, 2023 discussion)

Conceptual Characterization Plan: Original Proposed Decision Units



Conceptual Characterization Plan: Revised Proposed Decision Units



Conceptual Characterization Plan: Revised Proposed Decision Units

- Figure shows conceptual layout only, and does not include triplicate sample locations
- DU size ranges from 1,590 to 3,460 SF (excluding DU-5)
  - Smallest: DU-1
  - Largest: DU-4
- Number of increments: 42-46 (42 minimum)
- Increment spacing: 7-9 feet

DU	Approx. Area	# Increments	DU	Approx. Area	# Increments
DU-1	1,590 SF	45	DU-6	1,780 SF	44
DU-2	2,910 SF	42	DU-7A	2,130 SF	46
DU-3A	2,760 SF	45	DU-7B	3,210 SF	43
DU-3B	2,910 SF	44	DU-7C	3,240 SF	45
DU-4	3,460 SF	43	DU-8	2,650 SF	42
DU-5	90 SF	4 discrete samples	DU-9	2,090 SF	45



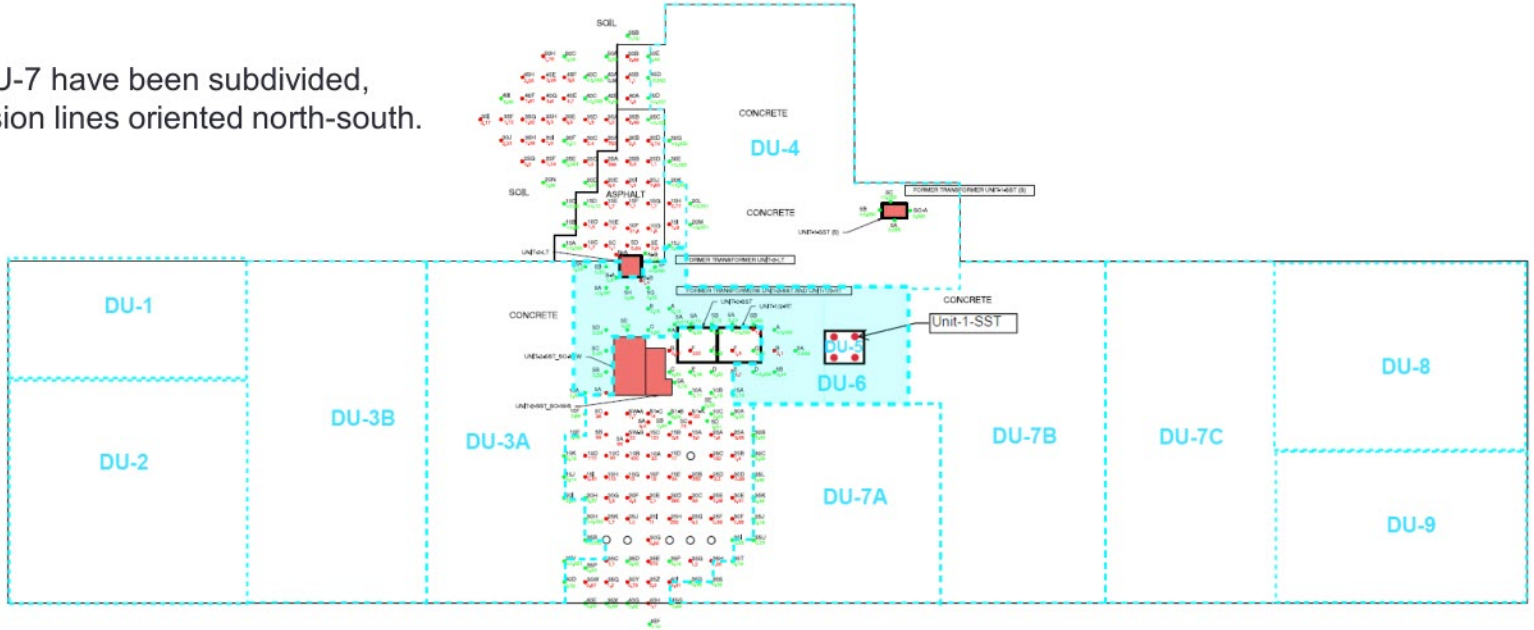
Response to USEPA Comments

Comment 2a: DU Boundary Design:

a. DU-3, DU-4 and DU-7 are large for making decisions about disposal, which the contractor acknowledges in that they propose splitting these into smaller DUs if they fail. We suggest dividing DU-3, DU-4, and DU-7 into smaller DUs to include a buffer area, similar to the DU-5 and DU-6 approach.

Response:

- DU-3 and DU-7 have been subdivided, with subdivision lines oriented north-south.



Response to USEPA Comments

Comment 2b: DU Boundary Design:

b. All DUs should be verified and modified with a walkthrough or survey of the concrete surface. During the walkthrough, cracks, slopes in the concrete, and stains should be noted, photographed, and the DU design should be adjusted.

Response:

- Discussion

Response to USEPA Comments

Comment 2c: DU Boundary Design:

c. The plan should describe the rationale for the 10-foot buffer area. The buffer area should be consistent with the likely spill zone and verified with employees that have observed leaks and spills.

Response:

- Discussion

Response to USEPA Comments

Comment 4: DU Failure: Under subsection 5d of the Proposed ISM Procedure, clarification is needed for the statement "Owner may elect to subdivide existing DUs into smaller areas and resample in accordance with above-listed procedure in order to limit the volume of materials to be disposed of offsite." We recommend:

a. Outlining a procedure on how an area will be subdivided.
b. A regulatory approval process for the redesign.

Response:

- Discussion

Discussion/Questions

Response to USEPA Comments – UPDATED

Comment 5: Field and Laboratory Quality Control Samples: During the March 17 meeting with Etiwanda, EPA mentioned among other things that Etiwanda needs to add to its plan field quality control (e.g., triplicates) and laboratory quality control samples (e.g., triplicates) for PCB analysis. The plan should also include the statistics to evaluate the results of field and laboratory triplicates.

Response:

- Field and laboratory triplicates will be included in the plan.
  - Field triplicates as discussed elsewhere
  - 2 laboratory triplicates (approximately 10% of samples submitted for laboratory analysis)
- Data precision evaluation will be conducted in general accordance with HIDOH DU-MIS Guidance
  - Relative standard deviation (RSD) will be calculated for each replicate data set.
  - RSD < 50% → Data is useable for its intended purpose.
  - RSD > 50% → Further evaluation is required (see caveats below)
  - Caveats:
    - High RSDs can become unavoidable as contaminant concentrations approach the laboratory method reporting and detection limits.
    - Similarly, RSDs typically increase as the magnitude of contamination increases. Sample data that significantly exceed target action levels is generally acceptable for decision making even though the RSD of the replicate data indicate very poor precision.

Response to USEPA Comments – UPDATED

Comment 5: Field and Laboratory Quality Control Samples

Response (continued):

- Evaluation of results will be conducted in accordance with ITRC ISM guidance
  - Single sample DUs: Compare ISM sample result to action levels
  - Triplicate sample DUs:
    - Compare 95% UCL (using ITRC-generated spreadsheet) to action levels?
    - 2020 draft updates to HIDOH DU-MIS Guidance discourages the use of 95% UCL
    - Discussion

CERTIFICATION

Certification of Self-Implementing PCB Cleanup and Disposal PCB Remediation Waste, 8996 Etiwanda Avenue, Rancho Cucamonga, California

This Certification is being submitted in connection with the Self-Implementing PCB Cleanup and Disposal PCB Notification Plan (the "Plan") for the site located at 8996 Etiwanda Avenue, Rancho Cucamonga, California (the Property).

The party conducting the cleanup described in the Plan, hereby certifies, and has advised the owner of the Property where cleanup is located, that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the Property, are on file at the following location(s) and are available for USEPA inspection:

- 8996 Etiwanda Avenue, Rancho Cucamonga, California

To access these files, please contact Matthew Nelson with Roux Associates, Inc., at mnelson@rouxinc.com to arrange an appointment and identify the specific records to be inspected. BTC III Etiwanda Commerce Center will compile the information requested and make the information available for review in their office or transmit electronic copies directly to the USEPA representative requesting the information.



11.23.22

PROPERTY OWNER
BTC III Etiwanda Commerce Center LP
4675 MacArthur Court, Suite 625
Newport Beach, California 92660

Date



11.23.22

PARTY CONDUCTING THE CLEANUP
Roux Associates, Inc.
5150 East Pacific Coast Highway, Suite 450
Long Beach, California 90804

Date

Annotated Agenda from Etiwanda All Hands Meeting, 30 August 2023

Attendees:

Margaret Alkon (EPA), Carmen Santos (EPA), Dina Kourda (DTSC)

Jim Murray (Owner), Mark Foley (Owner), Jess Hinchliffe (Owner)

Pam Andes (Counsel), Deepa Gandhi (EKI), Matthew Nelson (Roux), Andrew Shapero (Roux), Travis Clow (Roux)

Proposed Agenda to Discuss Next Steps for Etiwanda (for continuity, phrasing is similar to Carmen's 11 July 2023 next steps email):

Goal: Provide a Plan in the next submittal that is implementable by the Owner and approvable by EPA

1. Increments:
   Presentation by Roux with description of approach and rationale
   a. Appropriate VSP inputs for calculation of minimum number of increments
      i. Owner has selected VSP inputs based on the historical use and expected concentration of PCBs in the areas to be sampled, to determine the minimum number of increments for each DU, which is a VSP output.
      ii. Additional discussion of EPA technical rationale for changing the VSP inputs is requested.

➔ EPA was interested in the standard deviation estimate of 0.15 units input into VSP. It was agreed that more information would be provided by Roux in the revised plan regarding the description of and rationale for the data used as a basis for that estimate, including the PCB analysis method, sample locations, etc. for the dataset. A more robust discussion of how this dataset is consistent with the conceptual site model for the sampling area will also be added.

   b. Standardization of the number of increments
      i. Owner has proposed 42 minimum increments per DU, but actual number of increments varies from 42 to 46 based on the geometry of the DU, averaging 44.5 increments with a standard deviation of 1.4.
      ii. Additional discussion about EPA's technical rationale for standardization of increments is requested.

➔ The main issue for revision in the plan that EPA identified on this topic was variability amongst number of increments for replicate samples within a given DU, particularly for DU-7A. DU-4 may also warrant a revisit with respect to this comment. The number of increments will be reassessed for the DU-7A replicates, and if possible, modified so that each DU-7A replicate has the same number of increments. If possible, the same modification will be made for DU-4.

c. Field observations and their relationship with locations of increments/increment grid layout: "How will field observations be considered when laying the grid for collection of increments?"
    i. Owner has proposed systematic random sampling (with fixed increment spacing)
    ii. Clarification is requested about EPA's comment, to understand how to be responsive to this comment.

➔ After discussion, it was agreed that the Applicant will elaborate on the location of the grid and explicitly indicate that the grid will cover the entirety of the concrete area identified for disposal based on ISM data, including areas where field observations indicate cracks, stains, and the like. It was acknowledged that small shifts in increment location (6" or so) may be needed based on field conditions and no agency notifications will be needed for this.

2. Plan for DU failure and the scope of this and future amendments
    a. Clarification on the term "DU failure" is requested, for better understanding of the issue EPA is looking to resolve.
    b. Owner has provided a preliminary plan for these items and would like to defer further development of related decision-making flow charts until the sampling results are available.
    c. Discussion about how deferring these decisions will impact EPA's process is requested, to better understand the rationale for these requests at this time.

➔ EPA explained why this discussion is required in the plan and approval, why it cannot be deferred, and what will and won't be included in this current approval.
    - Re DU failure, after discussion, a solution was floated that was acceptable to EPA: if a RSD>35% was calculated from a set of triplicate samples, the highest triplicate analytical result for that DU would be used for comparison to action levels and disposal decision-making.
    - The EPA approval, including proposed action levels, will be limited to the concrete area investigated by ISM plus DU-5 (the small discrete sampling area). Soil/future areas will be discussed separately.

3. Other non-concrete media
    a. EPA comments have been received regarding the following media, that, based on site conditions, are not intended by the Owner to be part of the "Site" or application. These media are: (1) water in condensate pits; and (2) dust and debris from demolition of overhead structures currently overlying the concrete surfaces to be sampled. We would like to discuss and understand EPA's rationale/approach to these media in the plan.

➔ For water that may accumulate in condensate pits in the future, the appropriate number of samples (based on professional judgement), analytical method (EPA 8082), and detection limit will be consistent with EPA's comments. For clearing of concrete surfaces to prepare them for sampling, large debris/material will be handled consistent with the site demolition plan; for smaller material of the size that can be vacuumed (e.g., dust) that may be present on the surface to be sampled, EPA indicated a preference to use a HEPA vacuum to containerize the material, with subsequent sampling and analysis for PCBs (EPA Method 8082/3540C). The Owner will take

EPA's recommendations into consideration in the development of the revised concrete characterization plan.

October 10, 2023

Carmen Santos
PCB Coordinator
U.S. EPA Region 9
Land, Chemicals, and Redevelopment Division (LND-4-1)
75 Hawthorne Street
San Francisco, CA 94105

Subject: **Revised Site Characterization Plan, BTC III Etiwanda Commerce Center**
PCB Site ID: CATSCA111184 / CAR000038158

Dear Ms. Santos:

Please find enclosed the revised Site Characterization Plan ("Plan") for concrete ground surfaces at former Generating Units 1 and 2 ("Site") of the facility located at 8996 Etiwanda Avenue, Rancho Cucamonga, California. The Environmental Protection Agency (EPA) comments received on April 25, May 25, June 1, and June 27-29, 2023, have been addressed in the enclosed Plan. Responses to EPA's comments from June 27-29, 2023, are also provided as a separate enclosure.

With EPA approval of the enclosed Plan, we plan on conducting fieldwork in December. If you have any questions regarding this submittal or need additional information, please contact me at (732) 742-0764.

Sincerely,

Jessica Hinchliffe
BTC III Etiwanda Commerce Center LP

Enclosures:
Site Characterization Plan
Response to EPA Region 9 Comments on Entire Document (June 27 to 29, 2023)

cc: Steve Rounds, PE, Department of Toxic Substances Control
CY Jeng, Ph.D., Department of Toxic Substances Control
Dina Kourda, CEG, CHg, Department of Toxic Substances Control
Chris Sanford, BTC III Etiwanda Commerce Center LP
Carlos Palafox, BTC III Etiwanda Commerce Center LP
Mark Foley, BTC III Etiwanda Commerce Center LP
Pam Andes, Allen Matkins Leck Gamble Mallory & Natsis LLP
Deepa Gandhi, PE, EKI Environment & Water, Inc.
Matthew Nelson, PE, Roux Associates, Inc.

Site Characterization Plan

BTC III Etiwanda Commerce Center
8996 Etiwanda Avenue, Rancho Cucamonga, California

PCB Site ID: CATSCA111184 / CAR000038158

Prepared by: BTC III Etiwanda Commerce Center LP
Date: October 10, 2023

1. Introduction

BTC III Etiwanda Commerce Center LP ("Owner") prepared this site characterization plan for concrete ground surfaces at former Generating Units 1 and 2 ("Site"; Figure 1) of the facility located at 8996 Etiwanda Avenue, Rancho Cucamonga, California.

Polychlorinated biphenyl (PCB) impacts at the Site have been assessed via a stepwise investigation process based on historical operations and land uses started in 1995 under the oversight of the California Department of Toxic Substances Control ("DTSC"). Ground surfaces in the vicinity of former oil-containing equipment at the Site have been delineated using discrete samples collected on a 5-foot grid as described in the *Self-Implementing PCB Cleanup and Disposal Notification Plan* ("SICP") for the Site (Roux Associates, Inc., revised November 28, 2022; Roux, 2022). Step-out samples were collected and analyzed until concentrations in concrete and/or asphalt samples were less than DTSC Human Ecological Risk Office ("HERO") Human Health Risk Assessment ("HHRA") Note Number 3 (DTSC, 2022) commercial/industrial soil screening level ("DTSC SL") of 0.58 milligrams per kilogram (mg/kg) for total PCBs. Previous sampling results are shown on Figure 1.

In order to assess whether remaining concrete at the Site is suitable to remain on-Site, the Environmental Protection Agency (EPA) has requested a characterization plan for areas of concrete that remain to be characterized. This Plan has been prepared in response to EPA's conditional approval of the SICP (Condition B.3.b), dated December 15, 2022. In addition to satisfying EPA's request to characterize remaining concrete areas, this Plan has been developed as the Owner's initiated request to modify the approval EPA issued on December 15, 2022, under 40 CFR 761.61(a) and 40 CFR 761.61(c).

Due to the size of the remaining areas to be characterized (approximately 28,300 square feet ["SF"]) and prioritization of greener cleanup procedures, a sampling approach based on incremental sampling methodology (ISM) concepts is proposed as a Site-specific risk-based alternative under 40 CFR 761.61(c) for evaluation of remaining concrete ground surfaces for PCBs at the Site. Use of ISM for characterization of PCBs in soil is discussed in the PCB Facility Approval Streamlining Toolbox ("FAST") and EPA's August 8, 2019 document entitled ISM at PCB Cleanup Sites. Based on discussions with EPA, EPA is allowing the use of ISM at the Site for characterization of PCBs in concrete.

This plan has been developed in coordination with EPA and DTSC via meetings on March 17, May 3, May 5, and August 30, 2023, draft submittals and responses to EPA inquiries provided by Owner on March 14, March 17, May 5, May 11, May 19, and June 8, 2023, and written comments received from EPA on April 25, May 25, June 1, June 29, and July 11, 2023.

Details of the investigation design, field sampling procedures, and laboratory processing steps are provided below and in the attached documents:

Figures:

- Figure 1: Site Layout and Proposed Decision Units
- Figure 2: Incremental Sampling Plan: DU-1 and DU-2
- Figure 3: Incremental Sampling Plan: DU-3A and DU-3B

- Figure 4: Incremental Sampling Plan: DU-4, DU-5,[1] and DU-6
- Figure 5: Incremental Sampling Plan: DU-7A, DU-7B, and DU-7C
- Figure 6: Incremental Sampling Plan: DU-8 and DU-9
- Figure 7: Proposed Decision Units and Increments

Attachments:

- Attachment 1: Statistical Rationale Supporting ISM Approach
- Attachment 2: Standard Operating Procedure: Incremental Sampling Methodology for Collection of Concrete Samples for Polychlorinated Biphenyl (PCB) Analysis
- Attachment 3: Laboratory Standard Operating Procedure for Multi-Incremental Sampling (MIS)

2. ISM Investigation Design

2.1. Decision Units ("DUs")

The ISM characterization program is designed to determine if PCBs are present in concrete at the Site outside of those areas previously characterized and, if so, at what concentrations. Decision Units ("DUs") were established based on historical uses at the Site, including the location of known former oil-containing equipment, process areas, rooms and/or other building features. Proposed DUs are presented on Figure 1, and summarized below:

Table 1: Proposed Decision Units

Decision Unit ID	Approximate Area	Description and Rationale
DU-1	1,590 SF	Northwest corner of the building slab. Previously contained lube oil transfer pump; trench and lube oil unloading tank; dirty oil sump based on historical information.
DU-2	2,900 SF	Southwest portion of the building slab. Previously contained hydrogen seal oil supply unit; main generator exciter sets; auxiliary generator exciter set, and motors based on historical information.
DU-3A (1)	2,970 SF	Area west of the delineated area extending to DUs 1 and 2. No oil-containing equipment was observed in this area based on historical information. DU-3A and DU-3B include the western condensate pit, the square footage and increment grids of which include the pit walls. Historically, the pit was installed as secondary containment below the closed loop circulation systems for condensers for each of the generating units. The purpose of the pit was to collect any condensate (water) that came out of the condensers. No oils or equipment known or suspected to have contained PCBs are known to have been staged in this pit.
DU-3B	4,090 SF	
DU-4 (1)	2,960 SF	Area to the north of former transformers Unit-2-SST and Unit-1/2-RT and the east of the delineated area. Previously contained motor and generator based on historical information. This area surrounds former transformer Unit-1-SST(s) but does not include it as this transformer pad was previously characterized and delineated, and will be disposed of following the self-implementing PCB cleanup notification that EPA approved on December 15, 2022 as modified by that approval.

[1] Because of its small size, DU-5 included in this submittal will be characterized using a discrete sampling approach.

Decision Unit ID	Approximate Area	Description and Rationale
DU-5 (2)	90 SF	Pad for former transformer Unit-1-SST located to the east of former transformer Unit-1/2-RT.
DU-6 (1)	1,410 SF	Area surrounding the pad for former transformer Unit-1-SST and including other nearby areas adjacent to previously-characterized and delineated former transformer pads. This area represents a reasonable work area around the former locations of equipment known or suspected to have contained PCBs.
DU-7A (1)	1,480 SF	Area east of the delineated area extending to DUs 8 and 9. No oil-containing equipment was observed in this area based on historical information. DU-7B and DU-7C include the eastern condensate pit, the square footages and increment grids of which include the pit walls. Historically, the pit was installed as secondary containment below the closed loop circulation systems for condensers for each of the generating units. The purpose of the pit was to collect any condensate (water) that came out of the condensers. No oils or equipment known or suspected to have contained PCBs are known to have been staged in this pit.
DU-7B	3,740 SF	
DU-7C	4,000 SF	
DU-8 (1)	2,650 SF	Northeast corner of the building slab. Previously contained compressors based on historical information.
DU-9	2,100 SF	Southeast corner of the building slab. Previously contained motors and generators based on historical information.

Notes: (1) Triplicate field samples to be collected. DUs designated for field replicate collection were determined in consultation with EPA and in response to EPA's April 25 comment #1:
a. One triplicate for a likely low to no PCB concentration DU: DU-8
b. One triplicate for a likely high PCB concentration DU: DU-6
c. Triplicates for all 'boundary' DUs: DU-3A, DU-4, DU-7A
(2) DU to be characterized using discrete sampling methodology on a 5-foot grid.

2.2. Increments and Field Bulk Samples

The field and laboratory protocols described herein are designed to improve reliability and defensibility of sampling data by reducing data variability and providing a reasonable estimate of a chemical's mean concentration for the volume of material being sampled.

A minimum of 42 increments (single points of collection that are combined to create field bulk sample for each DU) will be collected from each DU (except for DU-5 described above). The rationale for the number of increments to be collected is provided in Attachment 1, and field sampling procedures are provided in Attachment 2.

Increment locations were determined through systematic random sampling using Visual Sample Plan (VSP) software, by dividing each DU into a grid and selecting a random increment location within the first grid cell. Remaining increment locations were then assigned to the remaining grid cells at the same relative location. The DU boundaries and increment grids cover the entirety of the concrete to be characterized and disposed under this submittal. Proposed increment locations for each DU are presented on Figures 2 through 6. Minor adjustments (shifts of approximately 6" or less) may be made to the increment locations based on field conditions and the geometry of the DU prior to the initiation of sample collection. These minor adjustments made will be documented by the field personnel conducting the sampling.

Field bulk samples (or "ISM samples") will be prepared for each DU by combining the increments collected into a single container as they are collected in the field, which is then further processed and subsampled by the analytical laboratory according to specific protocols described in Attachment 3.

2.3. Data Quality Objectives

The following data quality objectives ("DQOs") have been established for this effort:

- Assess remaining areas of concrete known to be the location of former oil-containing equipment and process areas;
- Assess areas of concrete immediately adjacent to previously-characterized concrete and asphalt ground surfaces ("boundary DUs")
- Screen remaining areas of concrete with no known environmental features of note;
- Assess the representativeness of the ISM program by calculating the relative standard deviation (RSD) of field and laboratory replicate samples; and
- Use sampling results, including RSDs, to determine the disposal approach for characterized concrete;
- Waste management in accordance with TSCA requirements for characterization and disposal of PCB remediation waste and personal protective equipment (PPE)..

3. ISM Investigation Implementation

3.1. Field Preparation

- Debris from the previous demolition of aboveground structures (pieces of concrete and other building materials such as rebar) will be removed from the concrete surfaces to facilitate a visual survey of the sampling area.
    - Large building debris will be managed in accordance with the site demolition plan.
    - If needed prior to sampling, sampling areas on the concrete surfaces will be cleaned with a HEPA equipped vacuum to collect and containerize surficial dust for future characterization and offsite disposal (see Section 5.2).
- Standing water within Site boundaries (if any[2]) will be sampled in situ in accordance with 40 CFR 761.269. Following receipt of analytical results, standing water will be removed, containerized, and disposed of pending appropriate characterization. If any, previously submerged concrete surfaces in the condensate pits will be inspected and documented following water removal.
- A surveyor will be retained to mark out the corners of DUs and reference points to be used to lay out the increment locations within each DU.
- Increment locations will be marked out using tape and a marker or paint circles. No paint will be placed where the increment sample is to be collected. Different colors will be used to distinguish between replicate samples within a DU.
- DUs will be verified with a walkthrough and visual survey of the concrete surface. Cracks, slopes in the concrete, and stains will be noted and photographed, including their location(s) relative to nearby marked increment locations.

3.2. Sample Collection

- Sampling procedures are summarized below, and standard operating procedures for field sampling are provided in Attachment 2.
- Samples will be collected using a rotary hammer drill with a 1 1/8-inch diameter drill bit using methods in general accordance with EPA Region 1 Standard Operating Procedures for Sampling Porous Surfaces for PCBs. Maximum sample depth will be approximately 0.5 inches. Multiple closely spaced holes may be required to generate sufficient sample mass. Each increment will be 30 grams as weighed in the field.
- All the increments will be combined in a phthalate-free zip top bag or laboratory supplied container in the field to prepare the field bulk sample.

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[2] Standing water in the condensate pits was observed in the spring of 2023. The water has since evaporated, and no water is anticipated to be present during upcoming Site characterization activities described herein.

- Samples will be transported under strict chain-of-custody to the analytical laboratory for processing and analysis, as described in Section 3.4. The following will be included on the chain-of-custody form accompanying the samples to the laboratory:
    - Sample extraction method: EPA method 3540C (manual Soxhlet)
    - Analytical method: EPA method 8082A.
    - All laboratory analytical results are to be reported on a dry weight basis.
    - Detection and quantitation limits must be at least 50% lower than the action level of 0.58 mg/kg total PCBs.
- Sampling tool decontamination is not required between increments. Sampling tools will be decontaminated between DUs and between triplicate samples. Decontamination procedures are provided in Attachment 2.
- Discrete samples collected from DU-5 will be collected following procedures described in the SICP.

3.3. Field Quality Control

- In consultation with EPA and DTSC, triplicate bulk samples will be collected from the following DUs: DU-3A, DU-4, DU-6, DU-7A, and DU-8.
- To prepare each triplicate, individual increments will be collected following a systematic random approach from different areas. The increments to prepare each of the triplicates (each of the three bulk samples) will not be collected side by side.
- Increment locations presented on Figures 3 through 6 include the proposed triplicate samples.
- Sampling tools will be decontaminated between triplicate samples.

3.4. Laboratory Processing of Bulk Samples

- Laboratory processing of bulk samples will be conducted by Eurofins Calscience LLC (“Eurofins”), of Garden Grove, California, in accordance with their Standard Operating Procedure for Multi-Incremental Sampling (MIS; Attachment 3) and as described below. Sample extraction and analysis will also be performed by Eurofins.
- The processing laboratory will be instructed to spread the ground sample in a thin layer (slab cake) and prepare a representative 30-gram subsample for testing by collecting 30 x 1-gram increments from the slab cake in a systematic random manner and combining each of the small increments. A flat bottom sampling tool with sides and a minimum 16-millimeter (mm) width should be used by the laboratory to collect the subsamples.
- A 30-gram subsample will also be collected to determine percent moisture as PCB analytical results must be reported as dry weight. Percent moisture will be determined following EPA’s extraction method 3540C procedures.
- The 30-gram subsample will be extracted following EPA’s extraction method 3540C (manual Soxhlet; including use of a 1-mm sieve size) and analyzed for PCBs following EPA method 8082A.
- The laboratory will be instructed on the chain-of-custody form to use EPA Method 3665A to clean up the sample extracts to achieve and consistently maintain detection and quantitation limits at least 50% lower than the action level of 0.58 mg/kg total PCBs.

3.5. Laboratory Quality Control

- To evaluate the accuracy of the laboratory subsampling procedures, the processing laboratory will collect three sets of triplicate samples from the bulk samples submitted for processing and analysis.
- Laboratory triplicate samples will be collected from bulk samples collected from DU-6 and DU-3A, which are boundary DUs adjacent to areas with previously characterized PCB impacts, and from DU-8, which is not a boundary DU.
- Laboratory results will be reported on a dry weight basis.

4. Evaluation of analytical results

4.1. Data Precision Evaluation

All laboratory packages will be reviewed for completeness and conformance with project goals. A data precision evaluation will be conducted by calculating the RSD for each replicate data set, including both field and laboratory replicates. As recommended by EPA, the following thresholds will be utilized when evaluating data precision of replicate samples:

- RSD ≤ 35%: Data will be considered useable for its intended purpose.
- RSD > 35%: Further evaluation will be conducted in consultation with EPA and DTSC (see caveats below).

When evaluating results of replicate samples with RSD > 35%, the following caveats should be considered:

- High RSDs can become unavoidable as contaminant concentrations approach the laboratory method reporting and detection limits. Sample data that indicate low concentrations well below the action levels may be considered acceptable for decision making even though the RSD of the replicate data indicate poor precision.
- Similarly, RSDs typically increase as the magnitude of contamination increases. Sample data that significantly exceed target action levels are generally acceptable for decision making even though the RSD of the replicate data indicate poor precision.

4.2. Evaluation of Analytical Results

Proposed action levels for total PCB concentrations are as follows:

- DTSC SL = 0.58 mg/kg
- Risk-based action level for on-Site management/capping = 25 mg/kg
- Action level for disposal at an approved PCB disposal facility or RCRA landfill = 50 mg/kg

For DUs where a single ISM sample was collected, the ISM sample result will be compared directly to action levels.

For DUs where replicate field samples were collected and the RSD is equal to or less than 35%, the mean concentration of the replicates will be calculated and compared to the action levels.

For DUs where replicate field samples were collected and the RSD exceeds 35%, the highest concentration will be compared to the action levels.

Discrete samples collected from DU-5 will be directly compared to the action levels above.

5. Management of Characterized Materials and Waste

5.1. Risk-Based Management of Characterized Ground Surfaces

Characterized ground surfaces may remain on Site (with or without capping) or be disposed of off Site as described in Table 2 below.

Table 2: Proposed risk-based management strategy for characterized materials

PCB concentration range	Management strategy
Total PCBs ≤ 0.58 mg/kg	Material will be crushed for use during the redevelopment of the subject property.
0.58 mg/kg < total PCBs ≤ 25 mg/kg	Material will be segregated, crushed, and placed under a new concrete or asphalt cap at least 6 inches thick on the same parcel from which the materials were generated. New building slab or pavement installed as part of the development will serve as the proposed protective cap. After cleanup and capping, procedures will be provided under a separate cover for: (1) regular inspection and maintenance of the cap; and (2) future breach of the cap.
25 mg/kg < total PCBs < 50 mg/kg	Material will be disposed of in a permitted nonhazardous landfill.
50 mg/kg ≤ total PCBs	Material will be disposed of in a hazardous waste landfill permitted by EPA or an authorized State, or in an approved PCB disposal facility.

Discrete in situ sample data, where available, will be used for waste profiling purposes for media requiring off-Site disposal. Where discrete sample data is not available, concrete requiring off-Site disposal will be profiled using ISM data collected as described herein. Additional disposal sampling may be conducted as required by the selected disposal facility.

5.2. Waste Management

The following waste streams may be generated during implementation of this Site Characterization Plan:

- **Water**: Standing water within the areas to be characterized (if any) will be sampled for PCBs in situ prior to removal in accordance with 40 CFR 761.269. Following receipt of analytical results, standing water will be removed, containerized, and disposed of offsite at an appropriately licensed disposal facility. Additional disposal sampling may be conducted as required by the selected disposal facility.
- **Dust**: Dust removal for preparation of concrete surfaces for sampling, if present and deemed warranted by the Site health & safety officer, will be performed using a HEPA-equipped vacuum. Dust will be containerized, and a sample collected for PCBs in accordance with 40 CFR 761.265(b) or (c), as applicable. The containerized dust will be disposed of offsite at an appropriately licensed disposal facility. Additional disposal sampling may be conducted as required by the selected disposal facility.
- **Decontamination liquids**: Decontamination liquids will be containerized during the decontamination process. Following implementation of this Site Characterization Plan, decontamination liquids will be sampled in accordance with 40 CFR 761.269. Following receipt of analytical results, decontamination liquids will be profiled and disposed of offsite at an appropriately licensed disposal facility. Additional disposal sampling may be conducted as required by the selected disposal facility.

6. Schedule and Reporting

Fieldwork is anticipated to begin at the beginning of December or 2 weeks after EPA and DTSC approval of this plan, and take 4-6 weeks to complete. Laboratory analysis is expected to have a turnaround time of 20 business days, after which RSDs will be calculated. Unexpected conditions or proposed deviations from the approved plan will be communicated to EPA and DTSC by email.

Results of the Site characterization activities are anticipated to be reported to EPA and DTSC in March or April 2024.

7. References

California Department of Toxic Substances Control Office of Human and Ecological Risk, 2022. Human Health Risk Assessment Note 3 – DTSC-Modified Screening Levels, May.

ITRC, 2020, *Incremental Sampling Methodology*: Interstate Technology and Regulatory Council, October 2020 (update of 2012 edition), https://ism-2.itrcweb.org/.

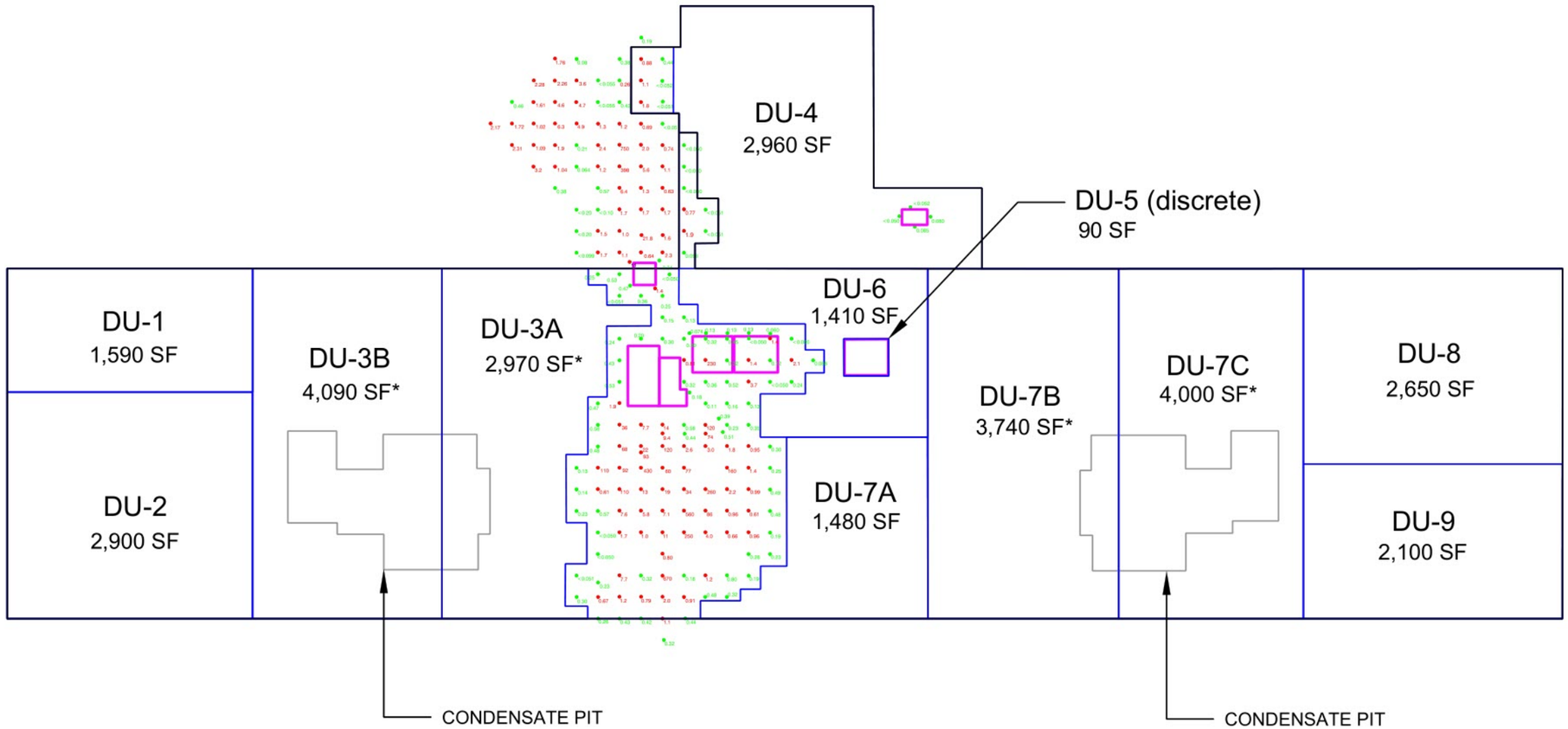
Roux Associates, Inc., 2022. Self-Implementing PCB Cleanup and Disposal Notification Plan, BTC III Etiwanda Commerce Center, 8996 Etiwanda Avenue, Rancho Cucamonga, California, November 28.

USEPA Region 1, 2011, Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCBs). May 2011.

USEPA, 2017, *PCB Facility Approval Streamlining Toolbox: A Framework for Streamlining PCB Site Cleanup Approvals*, EPA530-F-17-002.

USEPA, 2019, *Incremental Sampling Methodology (ISM) at Polychlorinated Biphenyl (PCB) Cleanup Sites*, August 8, 2019.

Figures

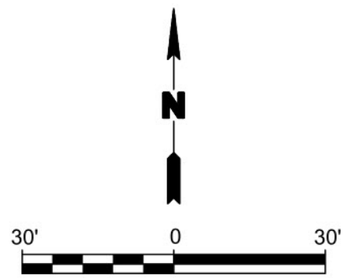


LEGEND

- CONCRETE SLAB OUTLINE
- FORMER TRANSFORMER PAD
- PROPOSED DECISION UNITS
- APPROXIMATE CONDENSATE PITS
- PREVIOUS CHARACTERIZATION SAMPLING LOCATION (TOTAL PCBs > 0.58 MG/KG)
- PREVIOUS CHARACTERIZATION SAMPLING LOCATION (TOTAL PCBs ≤ 0.58 MG/KG)

NOTES

1. CONDENSATE PIT LOCATIONS ARE APPROXIMATE AND BASED ON A HISTORICAL SITE PLAN FOR FORMER GENERATING UNITS 1 AND 2
2. MG/KG = MILLIGRAM PER KILOGRAM
3. TOTAL PCB CONCENTRATIONS ARE REPORTED IN MG/KG
4. SF = SQUARE FEET, APPROXIMATE
5. * = SF INCLUDES CONDENSATE PIT SIDE WALLS (APPROXIMATELY 5.1 FEET DEEP)
6. PREVIOUS CHARACTERIZATION SAMPLING RESULTS ARE SOURCED FROM THE SELF-IMPLEMENTING PBC CLEANUP AND DISPOSAL NOTIFICATION PLAN (ROUX, AUGUST 5, 2022, REVISED NOVEMBER 28, 2022)



Title:

SITE LAYOUT AND PROPOSED DECISION UNITS

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for:

BTC III ETIWANDA COMMERCE CENTER LP

ROUX

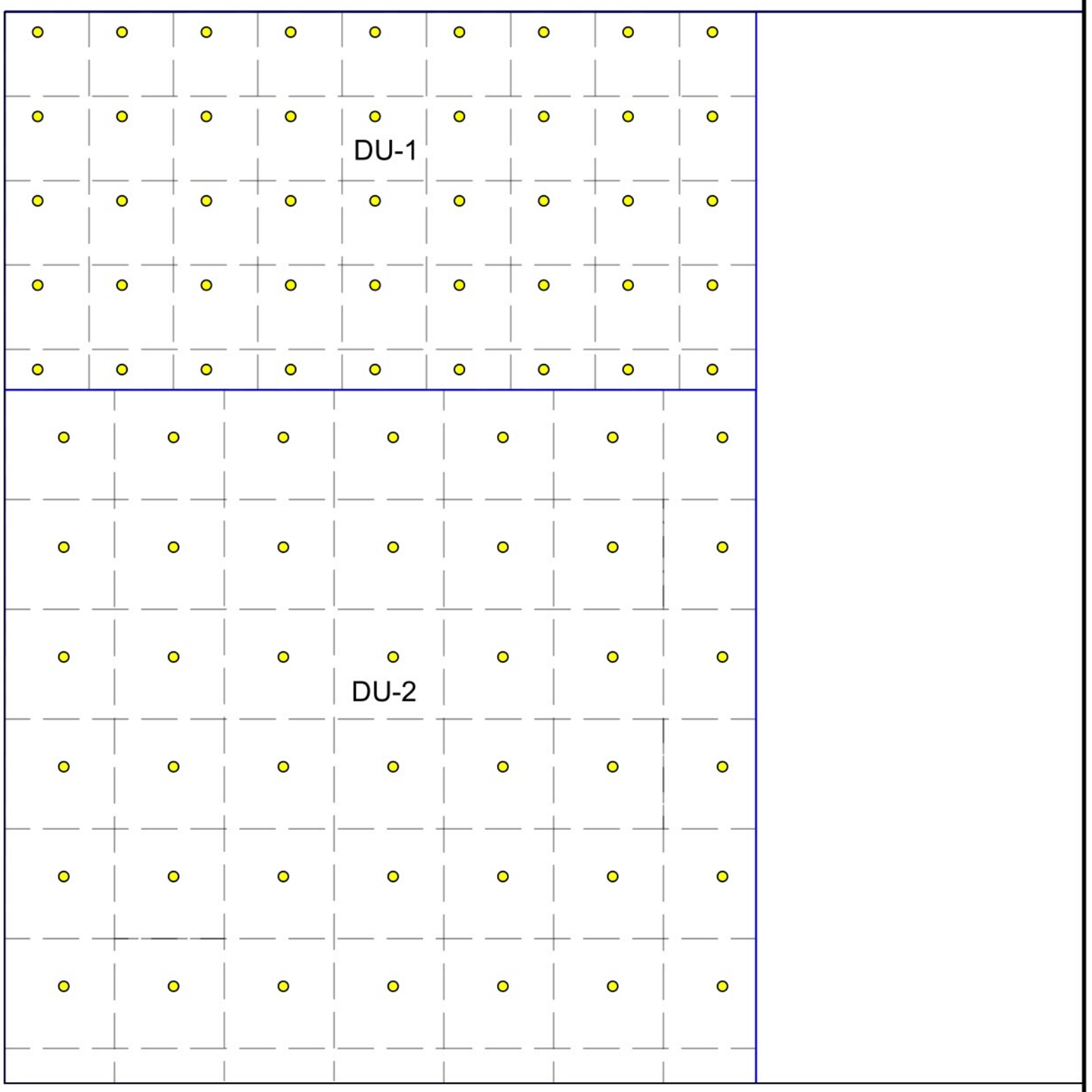
Compiled by: T.C.	Date: 2 OCT 2023	FIGURE
Prepared by: T.C.	Scale: AS SHOWN	1
Project Mgr: M.J.N.	Project: 3653.0001L	
File: 026_3653.0001L_VSP REVISED DU_TRIP.DWG		

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\026_3653.0001L_VSP REVISED DU_TRIP.DWG

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\026_3653.0001L_VSP REVISED DU_TRIP.DWG

DU-1
Increments: 45
Spacing: 6' 4"

DU-2
Increments: 42
Spacing: 8' 2"



LEGEND

- CONCRETE SLAB OUTLINE
- INCREMENT GRID
- PROPOSED DECISION UNITS
- PROPOSED INCREMENTS

NOTES

1. INCREMENT SPACING IS TO THE NEAREST INCH

N

10' 0 10'

Title:

INCREMENTAL SAMPLING PLAN: DU-1 AND DU-2

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for

BTC III ETIWANDA COMMERCE CENTER LP

ROUX

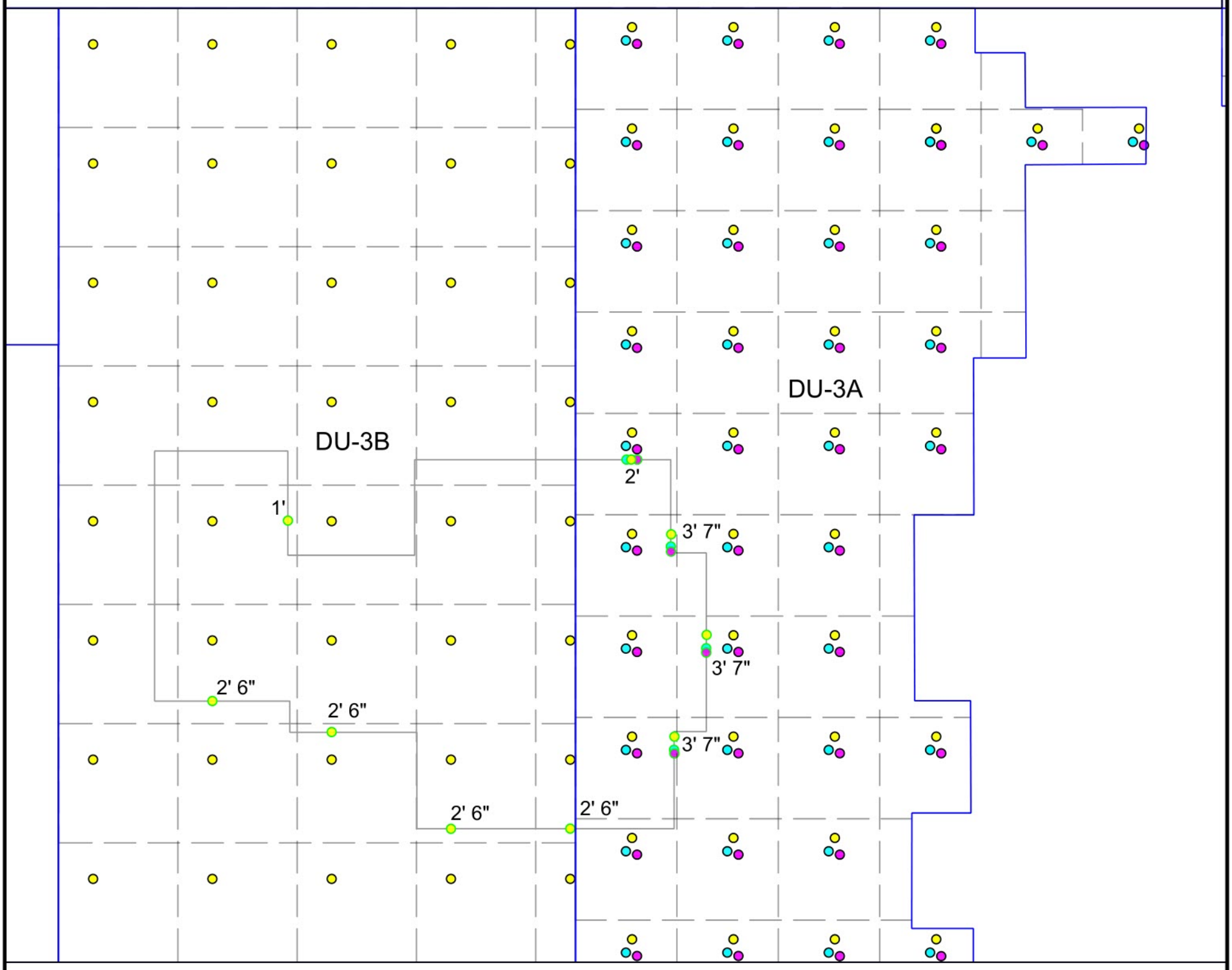
Compiled by: T.C.	Date: 19 SEPT 2023
Prepared by: T.C.	Scale: AS SHOWN
Project Mgr: M.J.N	Project: 3653.0001L
File: 026_3653.0001L_VSP REVISED DU_TRIP.DWG	

FIGURE
2

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\026_3653.0001L_VSP REVISED DU_TRIP.DWG

DU-3B
Increments: 45
Includes 5 Sidewall Increments
Spacing: 10'

DU-3A
Increments: 43
Includes 4 Sidewall Increments
Primary Spacing: 8' 6"
Replicate Spacing From Primary
Duplicates: 1' 2" S, 6" W
Triplicates: 1' 5" S, 5" E



10' 0 10'

N

LEGEND

- CONCRETE SLAB OUTLINE
- INCREMENT GRID
- PROPOSED DECISION UNITS
- APPROXIMATE CONDENSATE PITS
- PROPOSED INCREMENTS
- PROPOSED DUPLICATES
- PROPOSED TRIPLICATES
- PROPOSED SIDEWALL INCREMENTS
- PROPOSED SIDEWALL DUPLICATES
- PROPOSED SIDEWALL TRIPLICATES

NOTES

1. CONDENSATE PIT LOCATIONS ARE APPROXIMATE AND BASED ON A HISTORICAL PLAN FOR FORMER GENERATING UNITS 1 AND 2
2. INCREMENT SPACING IS TO THE NEAREST INCH
3. SIDEWALL INCREMENT LOCATIONS WERE DETERMINED BY INCLUDING THE AREA OF THE CONDENSATE PIT WALLS IN THE TOTAL DU AREA ENTERED INTO VISUAL SAMPLE PLAN (VSP).
4. NUMBER LISTED NEXT TO EACH SIDEWALL INCREMENT REPRESENTS THE INCREMENT COLLECTION HEIGHT ABOVE CONDENSATE PIT FLOOR SURFACE

Title:

INCREMENTAL SAMPLING PLAN: DU-3A AND DU-3B

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for

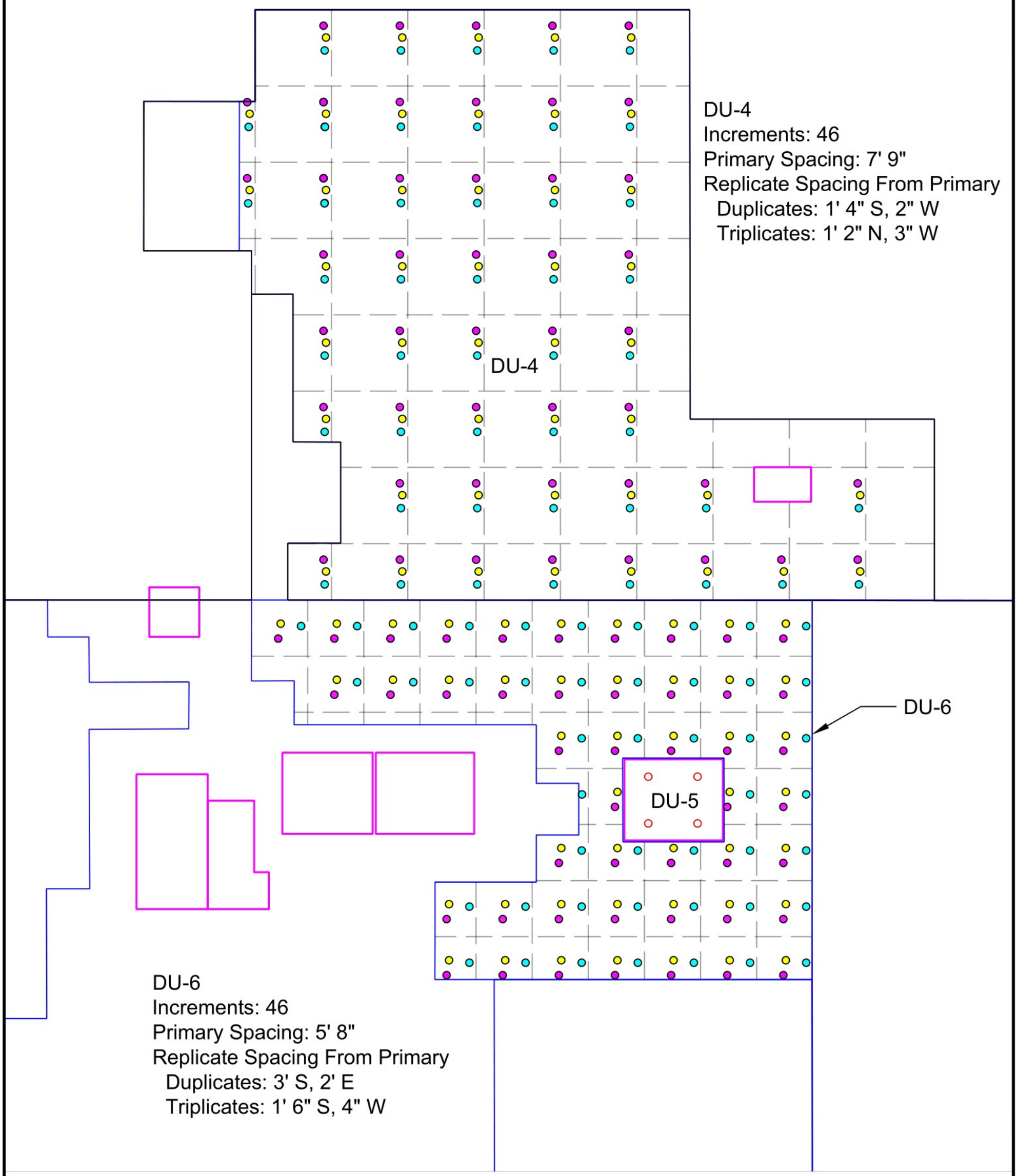
BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: T.C.	Date: 19 SEPT 2023
Prepared by: T.C.	Scale: AS SHOWN
Project Mgr: M.J.N	Project: 3653.0001L
File: 026_3653.0001L_VSP REVISED DU_TRIP.DWG	

FIGURE 3

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\026_3653.0001L_VSP REVISED DU_TRIP.DWG



DU-4
Increments: 46
Primary Spacing: 7' 9"
Replicate Spacing From Primary
Duplicates: 1' 4" S, 2" W
Triplicates: 1' 2" N, 3" W

DU-6
Increments: 46
Primary Spacing: 5' 8"
Replicate Spacing From Primary
Duplicates: 3' S, 2' E
Triplicates: 1' 6" S, 4" W

LEGEND

- CONCRETE PAD OUTLINE
- INCREMENT GRID
- FORMER TRANSFORMER PAD
- PROPOSED DECISION UNITS
- PROPOSED INCREMENTS
- PROPOSED DUPLICATES
- PROPOSED TRIPLICATES
- PROPOSED DISCRETE SAMPLE

NOTES

1. INCREMENT SPACING IS TO THE NEAREST INCH
2. DISCRETE SAMPLES WILL ONLY BE COLLECTED FROM DU-5

N

10' 0 10'

Title:

INCREMENTAL SAMPLING PLAN: DU-4, DU-5, AND DU-6

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for

BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: T.C.	Date: 19 SEPT 2023	FIGURE
Prepared by: T.C.	Scale: AS SHOWN	4
Project Mgr: M.J.N	Project: 3653.0001L	
File: 026_3653.0001L_VSP REVISED DU_TRIP.DWG		

DU-7B
Increments: 46
Includes 1 Sidewall Increment
Spacing: 8' 8"

DU-7A
Increments: 46
Primary Spacing: 6'
Replicate Spacing From Primary
Duplicates: 2' S, 1" E
Triplicates: 3' 10" S, 1' 4" W

DU-7A

DU-7B

DU-7C

2'

3' 11"

2' 9"

2' 9"

2' 9"

2' 9"

DU-7C
Increments: 45
Includes 5 Sidewall
Increments
Spacing = 10'

LEGEND

- CONCRETE SLAB OUTLINE
- INCREMENT GRID
- FORMER TRANSFORMER PAD
- PROPOSED DECISION UNITS
- APPROXIMATE CONDENSATE PIT
- PROPOSED INCREMENTS
- PROPOSED DUPLICATES
- PROPOSED TRIPLICATES
- PROPOSED SIDEWALL INCREMENTS

NOTES

1. CONDENSATE PIT LOCATIONS ARE APPROXIMATE AND BASED ON A HISTORICAL PLAN FOR FORMER GENERATING UNITS 1 AND 2
2. INCREMENT SPACING IS TO THE NEAREST INCH
3. SIDEWALL INCREMENT LOCATIONS WERE DETERMINED BY INCLUDING THE AREA OF THE CONDENSATE PIT WALLS IN THE TOTAL DU AREA ENTERED INTO VISUAL SAMPLING PLAN (VSP).
4. NUMBER LISTED NEXT TO EACH SIDEWALL INCREMENT REPRESENTS THE INCREMENT COLLECTION HEIGHT ABOVE CONDENSATE PIT FLOOR SURFACE

N

10' 0 10'

Title:

INCREMENTAL SAMPLING PLAN: DU-7A, DU-7B, AND DU-7C

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for:
BTC III ETIWANDA COMMERCE CENTER LP

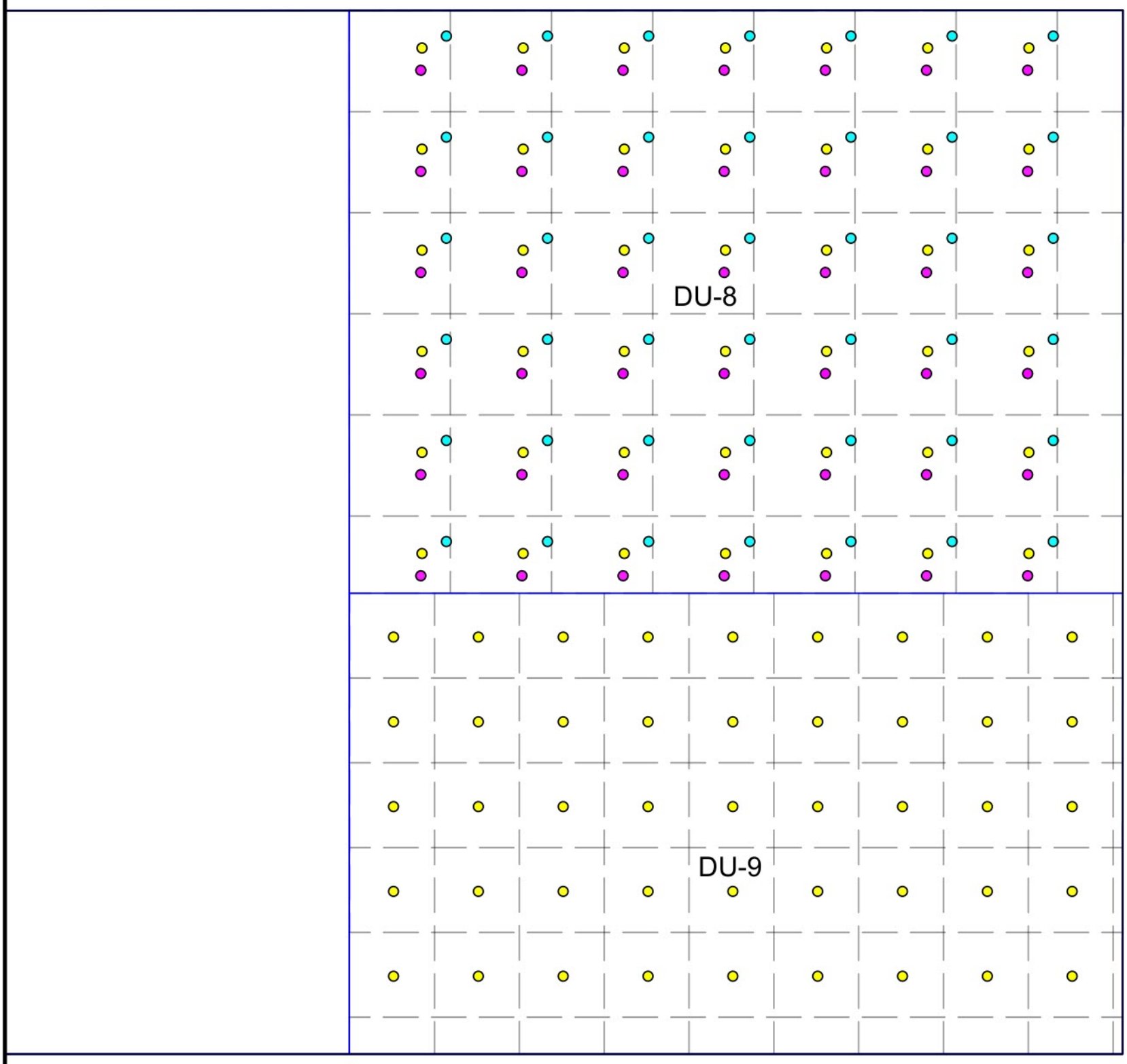
ROUX

Compiled by: T.C.	Date: 2 OCT 2023	FIGURE
Prepared by: T.C.	Scale: AS SHOWN	5
Project Mgr: M.J.N.	Project: 3653.0001L	
File: 026_3653.0001L_VSP REVISED DU_TRIP.DWG		

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\026_3653.0001L_VSP REVISED DU_TRIP.DWG

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\026_3653.0001L_VSP REVISED DU_TRIP.DWG

DU-8
Increments: 42
Primary Spacing: 7' 9"
Replicate Spacing From Primary
  Duplicates: 11" N, 1' 11' E
  Triplicates: 1' 8" S, 1" W



DU-9
Increments: 45
Spacing: 6' 6"

LEGEND

- CONCRETE SLAB OUTLINE
- INCREMENT GRID
- PROPOSED DECISION UNITS
- PROPOSED INCREMENTS
- PROPOSED DUPLICATES
- PROPOSED TRIPLICATES

NOTES

1. INCREMENT SPACING IS TO THE NEAREST INCH

N

10' 0 10'

Title:

INCREMENTAL SAMPLING PLAN: DU-8 AND DU-9

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for

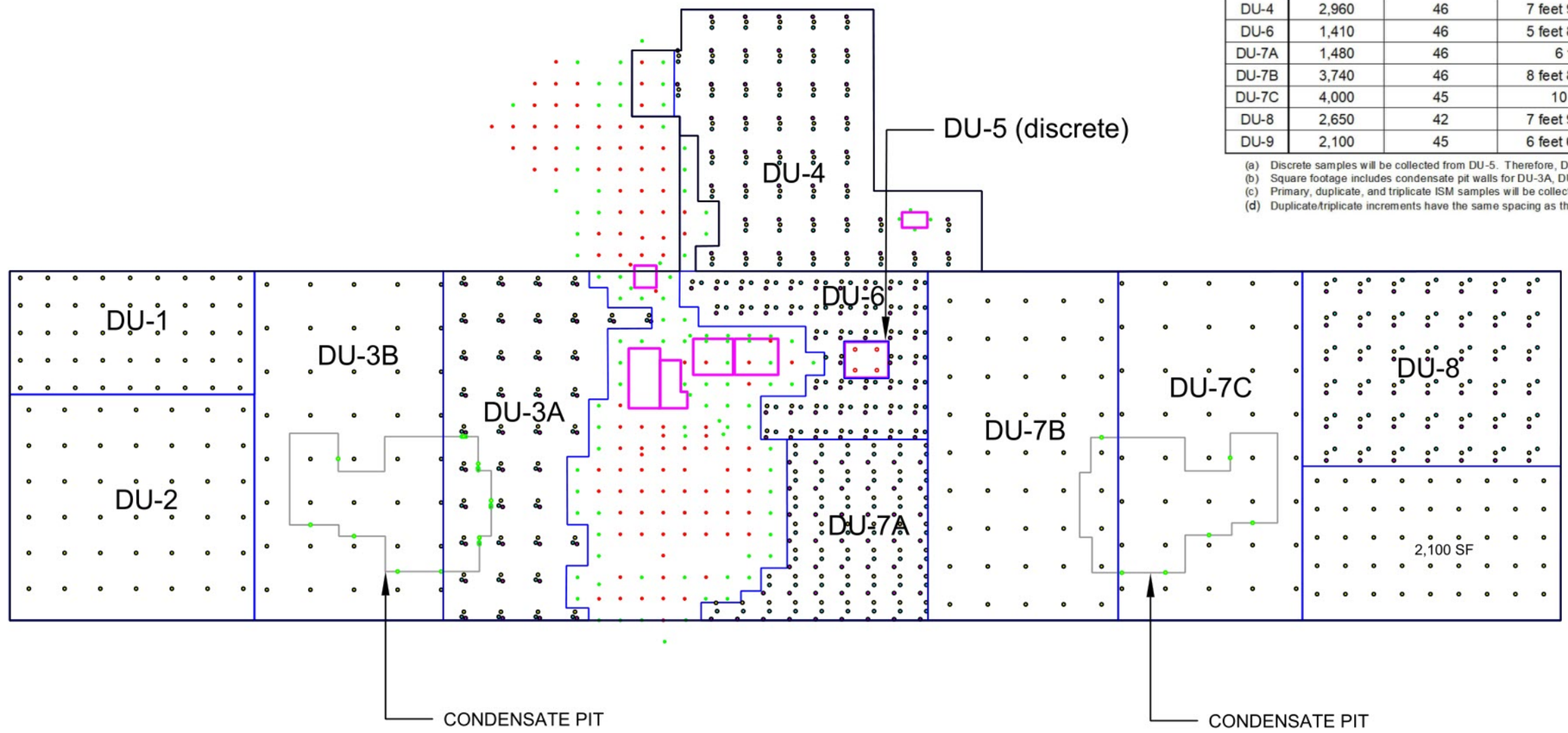
BTC III ETIWANDA COMMERCE CENTER LP

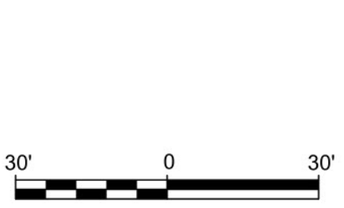
ROUX

Compiled by: T.C.	Date: 19 SEPT 2023	FIGURE
Prepared by: T.C.	Scale: AS SHOWN	6
Project Mgr: M.J.N	Project: 3653.0001L	
File: 026_3653.0001L_VSP REVISED DU_TRIP.DWG		

DU[a]	Square Footage[b]	Number of Increments[c]	Measured Spacing Between Increments (to nearest inch)	Duplicates/ Triplicates?[d]
DU-1	1,590	45	6 feet 4 inches	No
DU-2	2,900	42	8 feet 2 inches	No
DU-3A	2,970	43	8 feet 6 inches	Yes
DU-3B	4,090	45	10 feet	No
DU-4	2,960	46	7 feet 9 inches	Yes
DU-6	1,410	46	5 feet 8 inches	Yes
DU-7A	1,480	46	6 feet	Yes
DU-7B	3,740	46	8 feet 8 inches	No
DU-7C	4,000	45	10 feet	No
DU-8	2,650	42	7 feet 9 inches	Yes
DU-9	2,100	45	6 feet 6 inches	No

(a) Discrete samples will be collected from DU-5. Therefore, DU-5 is not included in this table.
(b) Square footage includes condensate pit walls for DU-3A, DU-3B, DU-7B, DU-7C
(c) Primary, duplicate, and triplicate ISM samples will be collected with the same number of increments.
(d) Duplicate/triplicate increments have the same spacing as the primary increments.





LEGEND

- CONCRETE SLAB OUTLINE
- INCREMENT GRID
- FORMER TRANSFORMER PAD
- PROPOSED DECISION UNITS
- APPROXIMATE CONDENSATE PITS
- PREVIOUS CHARACTERIZATION SAMPLING LOCATION (TOTAL PCBs > 0.58 MG/KG)
- PREVIOUS CHARACTERIZATION SAMPLING LOCATION (TOTAL PCBs ≤ 0.58 MG/KG)
- PROPOSED INCREMENTS
- PROPOSED DUPLICATES
- PROPOSED TRIPLICATES
- PROPOSED SIDEWALL INCREMENTS
- PROPOSED SIDEWALL DUPLICATES
- PROPOSED SIDEWALL TRIPLICATES
- PROPOSED DISCRETE SAMPLES

NOTES

1. CONDENSATE PIT LOCATIONS ARE APPROXIMATE AND BASED ON A HISTORICAL PLAN FOR FORMER GENERATING UNITS 1 AND 2
2. MG/KG = MILLIGRAM PER KILOGRAM
3. SIDEWALL INCREMENT LOCATIONS DETERMINED USING VISUAL SAMPLE PLAN SOFTWARE USING TRANSLATED POLYGONS REPRESENTING TRUE DIMENSIONS OF CONDENSATE PIT SIDEWALLS
4. REFER TO FIGURES 2 THROUGH 6 FOR CONDENSATE PIT SIDEWALL INCREMENT SAMPLING DEPTHS
5. DISCRETE SAMPLES WILL ONLY BE COLLECTED FROM DU-5

Title:

PROPOSED DECISION UNITS AND INCREMENTS

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for:

BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: T.C.	Date: 2 OCT 2023	FIGURE
Prepared by: T.C.	Scale: AS SHOWN	7
Project Mgr: M.J.N.	Project: 3653.0001L	
File: 026_3653.0001L_VSP REVISED DU_TRIP.DWG		

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\026_3653.0001L_VSP REVISED DU_TRIP.DWG

Attachment 1
Statistical Rationale Supporting ISM Approach

MEMORANDUM

Date: October 9, 2023

To: Jessica Hinchliffe – Senior Associate, BTC III Etiwanda Commerce Center LP

From: Matthew Nelson, PE – Roux
Travis Clow, PhD – Roux
Mauricio H. Escobar, PG - Roux

Subject: **Statistical Rationale of Incremental Sampling Methodology for Collection of Samples for Polychlorinated Biphenyl (PCB) Analysis**

Roux has prepared this memorandum providing the statistical rationale for the incremental sampling plan to be conducted as part of the Site Characterization Plan (the Plan) for concrete ground surfaces at former Generating Units 1 and 2 (Site) of the facility located at 8996 Etiwanda Avenue, Rancho Cucamonga, California. Incremental Sampling Methodology (ISM) is used to evaluate the mean contaminant concentration in environmental media (i.e., soil, sediment, concrete) using statistically supported techniques. The Interstate Technology Regulatory Council (ITRC) developed a guidance document describing ISM and how it is used; Incremental Sampling Methodology Update, October 2020 (ITRC, 2020). The ITRC ISM guidance was followed when establishing the rationale described below.

Approach

When sampling an area using ISM, the area must first be broken up into decision units (DUs) based on either known or assumed source areas, or on human and/or ecological receptors. DUs identified in the Plan were selected by evaluating historical uses at the Site. Once the DUs are established, the number and placement of increments (single points of collection that are combined to create an incremental sample for each DU) are evaluated for each DU. The ITRC ISM guidance recommends a range of 30 to 100 increments per DU as well as the use of Visual Sample Plan (VSP) software to best determine the appropriate minimum increment size for a given Site (ITRC, 2020). VSP provides a statistically sound tool for quantifying and defining a sampling scheme for any two-dimensional contamination problem in surface soil, building surfaces, water bodies, and other similar applications (VSP, 2014). VSP version 7.19 (VSP Development Team, 2023) software was used to establish a statistical rationale for the number of increments necessary to accurately characterize each DU using an incremental sampling plan. The implicit understanding in evaluating increments for each DU was that the number of increments will be greater than 30. PCB data from concrete samples collected surrounding former transformer pads at the Site (shown on Figure 1 of the Plan and Enclosure 1 of this memorandum) were used as an input into VSP. The Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note Number 3 (DTSC, 2022) commercial/industrial soil screening level (SL) for total PCBs of 0.58 milligrams per kilogram (mg/kg) was also used as an action level input into VSP.

VSP provides multiple approaches for determining an appropriate sampling plan for a given DU. Two approaches to achieve data quality objectives (DQOs) stated in the Plan were considered for this incremental sampling plan: (1) Estimate the Mean using Stratified Sampling and (2) Compare Average to a Fixed Threshold. The VSP User Guide describes the first option, Estimate the Mean using Stratified Sampling, as being best suited for situations where there is an assumption of homogeneous contamination conditions in DUs and a fixed budget that needs to be met, rather than a specific cleanup goal (VSP, 2014). In this case, neither of these assumptions best reflect the Site and the DQOs. The second option, Compare Average to a Reference Average, allows for the comparison of the true average concentration of a DU (if one were to sample 100% of the DU) against a fixed threshold concentration (i.e., 0.58 mg/kg) to determine the number of increments needed to obtain a sufficient spatial density within a DU while simultaneously incorporating previously gathered data. The VSP User Guide states

that comparing the average to a fixed threshold is the most common issue confronted in environmental remediation (VSP, 2014). The Compare Average to a Fixed Threshold approach was chosen for all DUs at the Site, except for DU-5, because it allows for the most information to be utilized in determining an appropriate sampling plan. DU-5 is the location of a former transformer pad and the discrete sampling approach adopted for the other former transformer pads at the Site as described in the Self-Implementing PCB Cleanup and Disposal Notification Plan will be used for this DU (Roux, 2022).

Inputs and Assumptions

The baseline assumption used in VSP with the Compare Average to a Fixed Threshold sampling plan is that the data is normally distributed (i.e., follows a bell curve). This sampling plan requires a null hypothesis, which allows for a confidence level to be specified to ensure that the anticipated results accurately reflect real conditions at the Site. The null hypothesis in this sampling plan is that PCB concentrations are below the DTSC SL (0.58 mg/kg; action level) in all DUs until proven otherwise. This is consistent with the conceptual site model (CSM) for the DUs, which is that there are no known sources of PCB-containing equipment or materials storage located within the concrete pad being investigated as part of the Plan based on available historical information. There are two possibilities that can lead to erroneous results: (1) falsely rejecting the null hypothesis, meaning that the sample results indicate that the Site is not clean, when it is clean, or (2) falsely accepting the null hypothesis, meaning that the sampling results indicate that the Site is clean, when it is not clean. A confidence level of **at least** 95% is specified to ensure a less than a 5% chance of incorrectly characterizing the Site by either falsely rejecting or falsely accepting the null hypothesis (false rejection rate and false acceptance rate, respectively) that the Site is clean if the true average concentration in the DU is roughly 15% higher than the DTSC SL (0.658 mg/kg; hypothetical true average concentration). A 95% confidence level is the most commonly implemented confidence level and is routinely used across virtually all branches of science (Dekking et al., 2005). A 95% confidence level is also used in an example of the Compare Average to a Fixed Threshold sampling plan in the VSP User Guide (VSP, 2014).

Discrete sampling data collected during previous investigations surrounding the former transformer pads were used to calculate the estimated standard deviation observed in real data due to sampling and analytical variability. PCB detections from these investigations that are equal to or less than the DTSC SL were used for the calculation and are shown on Figure 1 of the Plan (green sample locations) and in the table in Enclosure 1 of this memorandum. These data were used to determine an estimated standard deviation as they are the closest approximation to expected conditions in the DUs as informed by the CSM. An estimated standard deviation of 0.15 mg/kg was calculated and input into VSP as an expected standard deviation based on real world data. The estimated standard deviation influences the number of increments recommended by VSP (VSP, 2014). All VSP inputs used to generate the minimum number of increments per DU are shown on a screenshot from VSP included as Enclosure 2 and in Table 1 below.

Table 1. VSP parameter inputs.

Parameter	Input
False Rejection Rate	**At Least** 95.0%
Action Level (DTSC SL)	0.58 mg/kg
Hypothetical True Average Concentration	0.658 mg/kg
False Acceptance Rate	No Greater Than 5%
Estimated Standard Deviation	0.15 mg/kg

Results

Using a confidence level of **at least** 95%, PCB SL of 0.58 mg/kg, and an estimated standard deviation of 0.15 mg/kg, VSP provided the following outputs:

1. The **minimum** number of increments in a DU is **42** (Enclosure 1)[1].
2. Increment placement within each DU was determined via systematic grid sampling (with fixed spacing) using a random start across the DU (also referred to as systematic random sampling; Figures 2 through 6 of the Plan). In other words, there is equal spacing between increments in each DU, but the starting location of the increment grid is randomly generated for each DU.

Condensate pit walls (approximately 5.1 feet deep) were considered for DU-3A, DU-3B, DU-7B, and DU-7C when laying out increment locations in VSP (Figures 3 and 5 of the Plan). The number of increments per DU, the spacing among increments, and the DUs that will be sampled in triplicate (as well as the number of duplicate/triplicate increments) are summarized in Table 2 below.

Table 2. DU Increments, Spacing, and Triplicates

DU[(a)]	Square Footage[(b)]	Number of Increments[(c)]	Measured Spacing Between Increments (to nearest inch)	Duplicates/ Triplicates?[(d)]
DU-1	1,590	45	6 feet 4 inches	No
DU-2	2,900	42	8 feet 2 inches	No
DU-3A	2,970	43	8 feet 6 inches	Yes
DU-3B	4,090	45	10 feet	No
DU-4	2,960	46	7 feet 9 inches	Yes
DU-6	1,410	46	5 feet 8 inches	Yes
DU-7A	1,480	46	6 feet	Yes
DU-7B	3,740	46	8 feet 8 inches	No
DU-7C	4,000	45	10 feet	No
DU-8	2,650	42	7 feet 9 inches	Yes
DU-9	2,100	45	6 feet 6 inches	No

(a) Discrete samples will be collected from DU-5. Therefore, DU-5 is not included in this table.
(b) Square footage includes condensate pit walls for DU-3A, DU-3B, DU-7B, DU-7C.
(c) Primary, duplicate, and triplicate ISM samples will be collected with the same number of increments.
(d) Duplicate/triplicate increments have the same spacing as the primary increments.

Enclosures

1 Summary of PCB Results Detected in Concrete <0.58 mg/kg
2 VSP Screenshot of Inputs and Output

[1] Due to the geometry of the DUs (i.e., they are not all rectangles of the same size and shape), it is not possible for all DUs to have the exact same number of increments using systematic grid sampling with fixed spacing. As a result, many DUs have more than the minimum of 42 increments (e.g., DU-1 has 45 increments), but no DU has fewer than 42 increments. ITRC guidance acknowledges that for square or rectangular DUs, conversions for spacing between increments is straightforward to calculate. However, in situations where DUs are not square or rectangular the number of increments for a DU may be plus or minus the target number (ITRC, 2020).

References

California Department of Toxic Substances Control Office of Human and Ecological Risk, 2022. Human Health Risk Assessment Note 3 – DTSC-Modified Screening Levels, May.

Dekking, F.M., Kraaikamp, C., Lopuhaa, H.P., and Meester, L.E., 2005. A Modern Introduction to Probability and Statistics. Springer Texts in Statistics. DOI: 1007/1-84628-168-7.

Interstate Technology Regulatory Council (ITRC), 2020. Technical/Regulatory Guidance: Incremental Sampling Methodology (ISM) Update, October.

Roux Associates, Inc., 2022. Self-Implementing PCB Cleanup and Disposal Notification Plan, BTC III Etiwanda Commerce Center, 8996 Etiwanda Avenue, Rancho Cucamonga, California, November 28.

Visual Sample Plan (VSP) Development Team, 2014. Visual Sample Plan Version 7.0 User's Guide. March.

VSP Development Team, 2023. Visual Sample Plan: A Tool for Design and Analysis of Environmental Sampling. Version 7.19. Pacific Northwest National Laboratory. Richland, WA. https://www.pnnl.gov/projects/visual-sample-plan.

Summary of PCB Results Detected in Concrete <0.58 mg/kg

8996 Etiwanda Avenue, Rancho Cucamonga, CA

Sample ID	Date Sampled	Total PCBs[a]
	Analytical Method	USEPA 8082[b]
	Units	milligrams per kilogram (mg/kg)
	Target Characterization Level	**0.58[c]**
UNIT 1/2 RT		
Unit-1/2-RT-C	9/16/2022	0.12
Unit-1/2-RT-5A	6/16/2022	0.13
Unit-1/2-RT-5B	6/16/2022	0.060
Unit-1/2-RT-SO-5A	9/23/2022	0.086
Unit-1/2-RT-SO-5B	9/23/2022	0.24
UNIT 1 SST(S)		
Unit-1-SST-5A	6/16/2022	0.085
Unit-1-SST-(S)-SO-A	9/20/2022	0.080
UNIT 2 LT		
Unit-2-LT-SO-S-A	9/20/2022	0.47
Unit-2-LT-5B	6/14/2022	0.53
Unit-2-LT-5G	6/14/2022	0.25
Unit-2-LT-5H	6/15/2022	0.36
Unit-2-LT-15J[d]	9/23/2022	0.13
Unit-2-LT-15K	9/23/2022	0.25
Unit-2-LT-50E	10/27/2022	0.44
UNIT 2 SST		
Unit-2-SST-A	9/16/2022	0.32
Unit-2-SST-B	9/16/2022	0.45
Unit-2-SST-C	9/16/2022	0.32
Unit-2-SST-D	9/16/2022	0.52
Unit-2-SST-E	9/16/2022	0.36
Unit-2-SST-5A	6/16/2022	0.13
Unit-2-SST-5B	6/16/2022	0.13
Unit-2-SST-SO-W-A	9/16/2022	0.30
Unit-2-SST-SO-W-C	9/16/2022	0.32
Unit-2-SST-SO-W-5A	6/16/2022	0.074
Unit-2-SST-SO-W-N-A	9/20/2022	0.13
Unit-2-SST-SO-W-N-B	9/20/2022	0.15
Unit-2-SST-SO-W-N-C	9/20/2022	0.30
Unit-2-SST_SO-W-W-5B	6/14/2022	0.53
Unit-2-SST_SO-W-W-5C	6/14/2022	0.43
Unit-2-SST_SO-W-W-5D	6/14/2022	0.24
Unit-2-SST-SO-W-W-5E	6/16/2022	0.20
Unit-2-SST-SO-W-W-10A	6/15/2022	0.47
Unit-2-SST-SO-W-S-5A[d]	6/15/2022	0.37
Unit-2-SST-SO-W-S-15A	9/23/2022	0.13
Unit-2-SST-SO-W-S1-B	9/20/2022	0.58
Unit-2-SST-SO-W-S1-5B	6/15/2022	0.44

Summary of PCB Results Detected in Concrete <0.58 mg/kg

8996 Etiwanda Avenue, Rancho Cucamonga, CA

Sample ID	Date Sampled	Total PCBs[a]
	Analytical Method	USEPA 8082[b]
	Units	milligrams per kilogram (mg/kg)
	Target Characterization Level	**0.58[c]**
Unit-2-SST-SO-W-S1-5D	6/15/2022	0.51
Unit-2-SST-SO-W-S1-5E	6/15/2022	0.39
Unit-2-SST-SO-W-S1-10A	9/16/2022	0.11
Unit-2-SST-SO-W-S1-10B	9/16/2022	0.16
Unit-2-SST-SO-W-S1-10C[d]	9/16/2022	0.23
Unit-2-SST_SO-W-SW-10E	6/15/2022	0.48
Unit-2-SST_SO-W-SW-10F	6/15/2022	0.56
Unit-2-SST-SO-W-SW-15J	9/15/2022	0.14
Unit-2-SST-SO-W-SW-15K[d]	9/15/2022	0.13
Unit-2-SST-SO-W-SW-20H	9/16/2022	0.57
Unit-2-SST-SO-W-SW-20I	9/16/2022	0.23
Unit-2-SST-SO-W-SW-30A	9/29/2022	0.35
Unit-2-SST-SO-W-SW-30B	9/29/2022	0.30
Unit-2-SST-SO-W-SW-30C	9/29/2022	0.25
Unit-2-SST-SO-W-SW-35D	9/30/2022	0.32
Unit-2-SST-SO-W-SW-35F	9/30/2022	0.18
Unit-2-SST-SO-W-SW-35I	9/30/2022	0.28
Unit-2-SST-SO-W-SW-35J	9/30/2022	0.19
Unit-2-SST-SO-W-SW-35K	9/30/2022	0.48
Unit-2-SST-SO-W-SW-35L	9/30/2022	0.49
Unit-2-SST-SO-W-SW-35P	10/5/2022	0.39
Unit-2-SST-SO-W-SW-35R	10/5/2022	0.48
Unit-2-SST-SO-W-SW-35S	10/5/2022	0.32
Unit-2-SST-SO-W-SW-35T	10/5/2022	0.19
Unit-2-SST-SO-W-SW-35U	10/5/2022	0.23
Unit-2-SST-SO-W-SW-35X	10/12/2022	0.24
Unit-2-SST-SO-W-SW-40D	10/12/2022	0.30
Unit-2-SST-SO-W-SW-40E	10/12/2022	0.26
Unit-2-SST-SO-W-SW-40G	10/12/2022	0.42
Unit-2-SST-SO-W-SW-45F	10/20/2022	0.32
Unit-2-SST-SO-W-SW-45G	10/20/2022	0.44

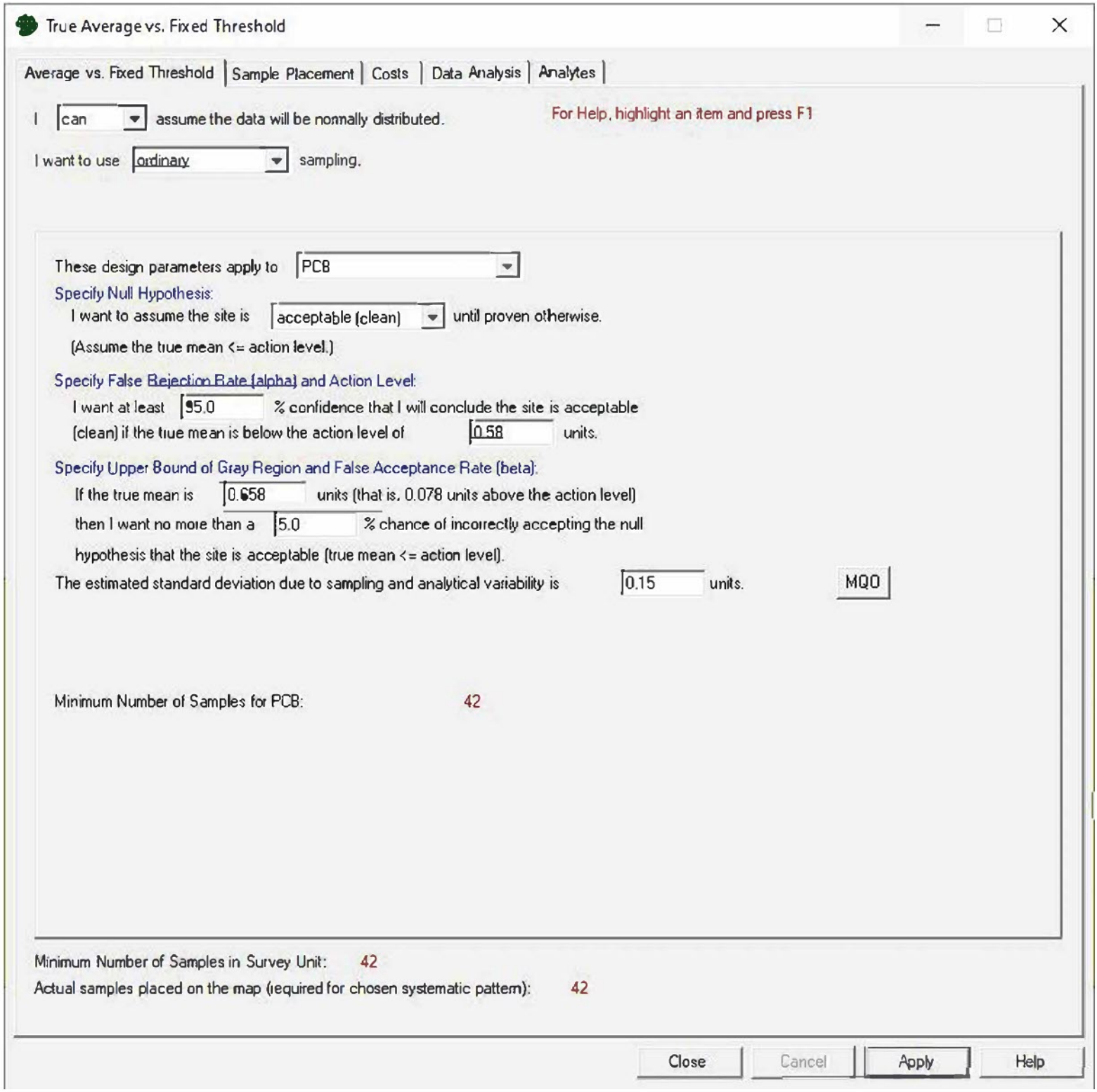
(a) Data from *Self-Implementing PCB Cleanup and Disposal Notification Plan* , rev. Nov. 28, 2022.

(b) Samples analyzed for PCBs by U.S. Environmental Protection Agency (USEPA) Method 8082; Sample extraction by USEPA Method 3540C and sample extract cleanup by USEPA Method 3665A.

(c) Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note Number 3 commercial/industrial soil screening level.

(d) Duplicate samples were collected and the highest value is shown.

VSP Screenshot of Inputs and Output



Attachment 2
Standard Operating Procedure: Incremental Sampling Methodology for Collection of Concrete Samples for Polychlorinated Biphenyl (PCB) Analysis

MEMORANDUM

Date: October 9, 2023

To: Jessica Hinchliffe – Senior Associate, BTC III Etiwanda Commerce Center LP

From: Matthew Nelson, PE – Roux
Mauricio H. Escobar, PG – Roux

Subject: **Standard Operating Procedure: Incremental Sampling Methodology for Collection of Concrete Samples for Polychlorinated Biphenyl (PCB) Analysis**

Roux has prepared this Standard Operating Procedure (SOP) for inclusion in the Site Characterization Plan (the Plan) for concrete ground surfaces at former Generating Units 1 and 2 (Site; Figure 1) of the facility located at 8996 Etiwanda Avenue, Rancho Cucamonga, California. The purpose of this SOP is to establish guidelines and procedures for the collection of concrete samples for laboratory analysis of polychlorinated biphenyls (PCBs) in accordance with the incremental sampling methodology (ISM) proposed in the Plan. ISM is used to evaluate the mean contaminant concentration in environmental media (i.e. soil, sediment, concrete) using statistically supported techniques. The Interstate Technology Regulatory Council (ITRC) developed a guidance document describing ISM and how it is used; Incremental Sampling Methodology Update, October 2020 (ITRC, 2020). This SOP describes the procedures and equipment needed to prepare, collect, and preserve field samples before laboratory analysis, and is largely based on the ITRC ISM guidance document and the US Environmental Protection Agency (USEPA) Region 1 Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCBs; USEPA Region 1 SOP; USEPA, 2011).

Considerations

ISM is a structured composite sampling protocol that was developed to address the variability present in environmental samples/media, which yields more consistent and reproducible results than traditional, discrete sampling approaches. ISM reduces potential biases in the sampling methodology by collecting several "increments" of the material being analyzed that are then combined, processed, and subsampled to reliably estimate the mean concentration of a particular sampling area. The ISM approach requires attention to quality assurance/quality control (QA/QC) measures throughout the sampling process.

When sampling an area using ISM, the area must first be broken up into decision units (DUs) based on either known or assumed source areas, or on human and/or ecological receptors. Before sampling begins, DUs will be marked out in the field along with each of the individual increment locations. The layouts and extents of DUs have been determined in consultation with USEPA and DTSC and are based on Site-specific features and historical knowledge. The number of increments and their locations have been generated using Visual Sample Plan (VSP) software and Site-specific information. Increment placement within each DU was determined via systematic grid sampling (with fixed spacing) using a random start across the DU.

Wind speeds are not expected to be above 15 miles per hour (mph). However, wind speeds will be monitored before and during sampling in real time via a weather application (i.e., WeatherBug or similar) and sampling will not be conducted when wind speeds exceed 15 mph. Also, sampling will not be conducted during a rain event. If a rain event occurs during sampling, the concrete will be given 24 hours to dry before sampling resumes.

Equipment and Materials

Equipment and materials needed to perform the sampling described in this SOP are as follows.

1. General field supplies and personal protective equipment (PPE):
    a. Job Safety Analysis (JSA) and PPE, as specified in the Site-specific Health and Safety Plan (HASP). Minimum PPE includes:
        i. Safety glasses;
        ii. Hearing protection;
        iii. Respiratory protection (N95 mask);
        iv. Nitrile gloves; and
        v. Safety-toe (e.g., steel toe, composite toe) boots.
    b. The Plan, which outlines sampling requirements including the Site-specific data quality objectives (DQOs); and
    c. Field notebook, field form(s), maps, chain-of-custody (COC) forms.
2. DU and Increment Layout Equipment:
    a. Spray paint to mark DU extents;
    b. String and stakes;
    c. Measuring tape; and
    d. Handheld global positioning system (GPS).
3. Decontamination Equipment:
    a. Deionized water;
    b. Two small buckets;
    c. Squirt bottle;
    d. Paper towels and cloths;
    e. Hexane; and
    f. Wire brushes for removing particulates.
4. Sampling Equipment:
    a. Clean brush/cloth and a vacuum with a high efficiency particulate air (HEPA) filter to clear increment area;
    b. Single use aluminum foil sheets to collect increment powder;
    c. Stainless steel scoopula;
    d. Rotary hammer drill with 1 1/8-inch diameter drill bit;
    e. Drill bit shroud;
    f. Stainless steel bowls for covering increment locations between drilling and increment collection;
    g. Digital scale for measurement of increments;
    h. Large resealable phthalate-free zip top bags (Ziploc™ or equivalent) for collecting increments for each DU sample (an additional bag will be needed for each duplicate and triplicate sample collected);

i. Additional large resealable phthalate-free zip top bags to double bag each DU sample (an additional bag will be needed for each duplicate and triplicate sample collected); and

j. Ice and coolers/ice chests.

Field Sampling Procedure

1. DUs and increments within each DU will be cleared, inspected, and marked out before sampling, as described in the Plan.
2. Collect increments starting in the corner or end of the DU. Two field personnel will be at the Site working together to collect increments. One sampler will follow the pre-determined sampling path drilling each increment. The second sampler will follow behind collecting and weighing each increment. The travel path approach as well as the number of replicate samples to be collected in each DU are presented in Figures 1 through 6 and Table 1. Spacing between the primary increments and the duplicate and triplicate increment spacing are shown on Table 1. For DUs that include condensate pit floor and condensate pit wall samples, increments will be collected in the following order: (1) ground level increments, (2) condensate pit floor increments, (3) condensate pit wall increments.
3. Remove any debris with a clean brush or cloth before drilling. Set up the rotary hammer for use. Secure the drill bit and drill bit shroud in the rotary hammer before connecting to a generator/power source.
4. Drill each increment approximately 0.5 inch into the concrete using a rotary hammer and a 1 1/8-inch diameter drill bit to generate a fine powder of the material. Multiple closely spaced holes may be needed to generate sufficient sample mass. Field personnel drilling each increment location will cover the increment location with a stainless-steel bowl to prevent losing any of the concrete dust following the drilling of each location.
5. Collect the powdered concrete increment onto aluminum foil by scooping it up with the foil or using a stainless-steel scoopula from the bottom of the hole. Each increment should consist of approximately 30 grams of material and will be measured in the field using a digital scale.

   Condensate pit sidewall increments will be collected by the first sampler drilling the holes and the second sampler collecting the powdered concrete in either a stainless-steel bowl or an aluminum foil sheet held below the drill bit.
6. Add each increment collected to a large new resealable phthalate-free zip top bag by carefully pouring the powdered concrete from the aluminum foil directly into the bag. The resealable phthalate-free zip top bag will be specific for each DU (one bag each for primary, duplicate, and triplicate samples) and large enough to contain all increments for the DU, which are expected to be 1,200 to 1,400 grams each, and a minimum of 1,000 grams.
7. Following collection of all increments for the DU, the resealable phthalate-free zip top bag containing the sample should be placed in an additional sealed phthalate-free zip top bag, and then into an ice chest/cooler with ice surrounding the sampling bags. Double bagging the sample will help ensure that water will not enter the bags that contain the increments. Cooler temperature will be maintained at or below 6 degrees Celsius and will be confirmed by the laboratory upon receipt.
8. Record the samples on a chain-of-custody (COC; see Table 1 for the sample naming convention). Ensure that the laboratory project number and “ISM” is noted for each analytical method on the COC. The following will be included on the chain-of-custody form accompanying the samples to the laboratory:

   a. Sample extraction method: USEPA Method 3540C (manual Soxhlet);

   b. Sample extract cleanup method: USEPA Method 3665A;

   c. Analytical method: USEPA Method 8082A;

d. All laboratory analytical results are to be reported on a dry weight basis; and

e. Detection and quantitation limits must be at least 50% lower than the action level of 0.58 milligrams per kilogram (mg/kg) total PCBs.

9. Decontaminate sampling equipment in accordance with the Decontamination section below.

10. Repeat the incremental sampling process within the DU to collect second and third replicate samples, or advance to the next DU, as appropriate. Consult Table 1 for the number of replicate samples to be collected from each DU, the spacing between increments, and the sample naming convention for each DU. Additional details regarding replicate samples are provided in the Quality Control Field Sample Collection section below.

Decontamination

Decontamination of reusable sampling equipment is not required between increments, but shall be performed between each DU and between replicate samples within a DU. Decontamination shall be performed in a dedicated decontamination area with measures in place to protect against direct release of PCBs to the environment from the decontamination area. Persons performing decontamination activities shall wear or use appropriate PPE to protect against dermal contact or inhalation of PCBs or materials containing PCBs, in accordance with the Site-specific HASP.

Decontamination shall be performed by swabbing with a solvent (hexane), consistent with self-implementing decontamination procedures in accordance with 40 CFR 761.79(c)(2) and the USEPA Region 1 SOP (USEPA, 2011). A brush may be used before swabbing to remove any particulates from the sampling equipment to facilitate thorough decontamination. All parts of the reusable sampling equipment that may come in contact with sample media shall be decontaminated.

Decontamination waste[1] will be disposed of consistent with the requirements in 40 CFR 761.79(g). Any non-liquid cleaning materials such as paper towels, rags, or PPE used as part of decontamination activities shall be containerized and disposed of at an appropriate facility following 40 CFR 761.61(a)(5)(v). Cleaning solvent (hexane) used as part of decontamination activities shall be collected, containerized, and incinerated at an appropriate facility following 40 CFR 761.79(g)(3) and 40 CFR 761.60(a). Decontamination waste will be stored in approved containers on Site at a location greater than 100 feet from all property boundaries and disposed of off Site within 90 days.

A written record of the decontamination procedures, including photos and video, will be taken and saved in the project file for 3 years after completion of the decontamination procedures in accordance with 40 CFR 761.79(f)(2), and will be included in the report to USEPA.

Quality Control Field Sample Collection

Field replicate samples are an integral part of the ISM approach and are used to assess potential bias in the sample collection process to evaluate the mean PCB concentration of each DU and evaluate field and laboratory precision. Replicate samples are independently collected incremental samples that are collected following the same procedures described above for the original sample. The increment layout for replicate samples was determined via systematic grid sampling (with fixed spacing) using a random start across the DU using VSP in the same manner as the original increments. Replicate samples will consist of the same number of increments for each DU (Table 1). All samples shall be handled the same throughout the field and laboratory procedures.

[1] Decontamination waste is expected to be used solvent, non-liquid cleaning materials and PPE waste at any concentration, including non-porous surfaces and other non-liquid materials such as rags, gloves, other disposable PPE, and similar materials resulting from decontamination (40 CFR 761.79[g]).

Table 1 summarizes the quantity and type of quality control samples to be collected for the sampling event.

Sample Submission to Laboratory for Preparation/Analysis

Implementation of the ISM sampling protocol requires close communication and coordination with the analytical laboratory. Before sampling activities begin, plans should already be in place with the laboratory to ensure that the laboratory understands the specific handling and processing requirements. Specifically, requirements listed in item 8 of the Field Sampling Procedure above must be discussed with the laboratory before sampling begins.

Enclosures

Table 1 – Decision Unit Primary and Replicate Sample and Increment Details

Figure 1 – Site Layout and Proposed Decision Units
Figure 2 – ISM SOP Sampling Path: DU-1 and DU-2
Figure 3 – ISM SOP Sampling Path: DU-3A and DU-3B
Figure 4 – ISM SOP Sampling Path: DU-4 and DU-6
Figure 5 – ISM SOP Sampling Path: DU-7A, DU-7B, and DU-7C
Figure 6 – ISM SOP Sampling Path: DU-8 and DU-9

References:

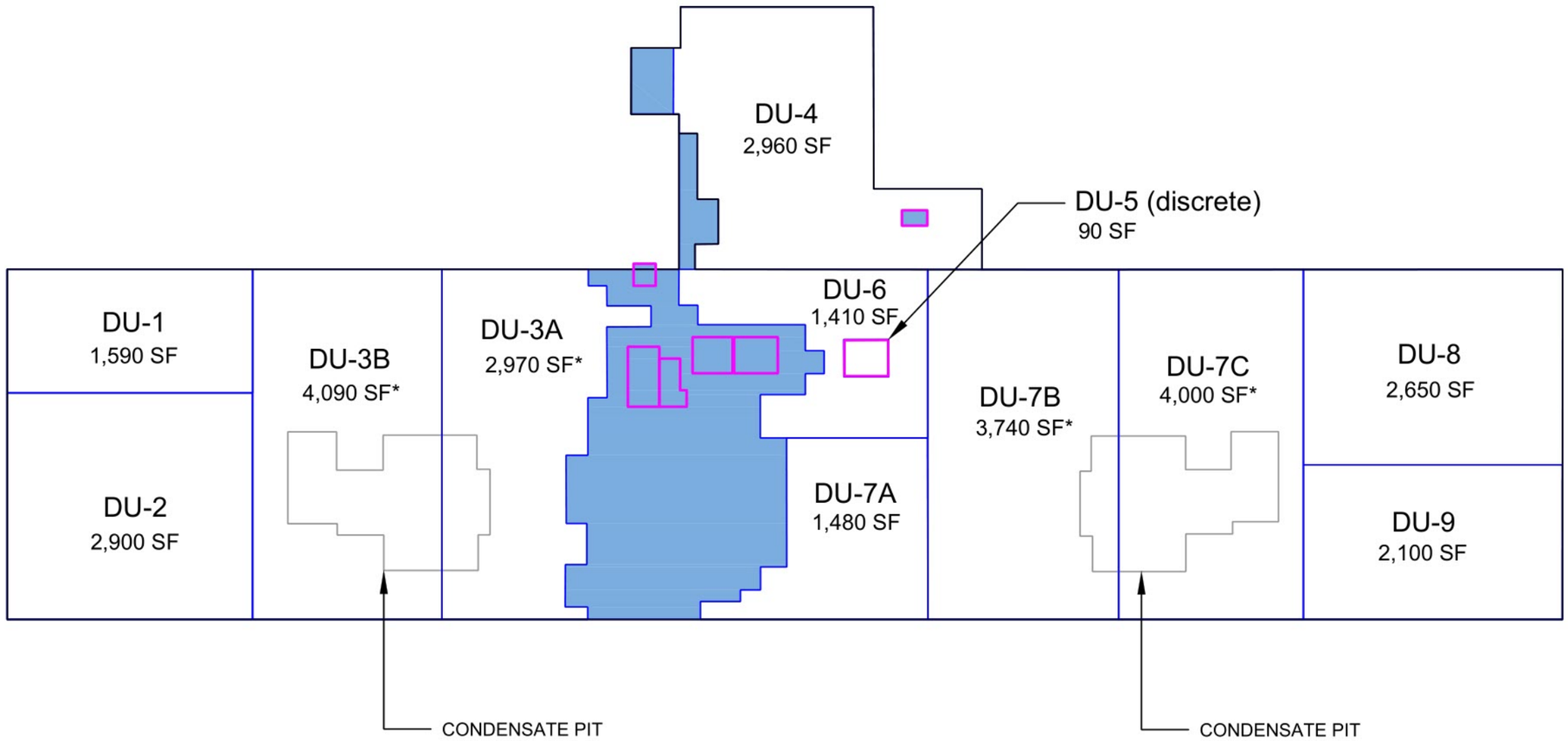
Interstate Technology Regulatory Council (ITRC), 2020. *Technical/Regulatory Guidance: Incremental Sampling Methodology (ISM) Update*, October.

USEPA, 2011. USEPA Region 1 Standard Operating Procedure for Sampling Porous Surfaces for *Polychlorinated Biphenyls (PCBs)*, May 5.

Table 1
Decision Unit Primary and Replicate Sample and Increment Details
8996 Etiwanda Avenue, Rancho Cucamonga, California

DU[(a)]	Sample ID	Number of Primary Increments	Measured Spacing Between Increments[(b)] (to nearest inch)	Triplicates?	Number of Increments per Duplicate/Triplicate[(b)]	Spacing of Duplicate from Primary	Spacing of Triplicate from Primary
DU-1	DU-1-MMDDYY	45	6 feet 4 inches	No	--	--	--
DU-2	DU-2-MMDDYY	42	8 feet 2 inches	No	--	--	--
DU-3A	DU-3A-MMDDYY DU-3A-MMDDYY-DUP DU-3A-MMDDYY-TRIP	43	8 feet 6 inches	Yes	43	1 foot 2 inches South 6 inches West	1 foot 5 inches South 5 inches East
DU-3B	DU-3B-MMDDYY	45	10 feet	No	--	--	--
DU-4	DU-4-MMDDYY DU-4-MMDDYY-DUP DU-4-MMDDYY-TRIP	46	7 feet 9 inches	Yes	46	1 foot 4 inches South 2 inches West	1 foot 2 inches North 3 inches West
DU-5	DU-4-1-MMDDYY DU-4-2-MMDDYY DU-4-3-MMDDYY DU-4-4-MMDDYY	4 (discrete samples)	--	--	--	--	--
DU-6	DU-6-MMDDYY DU-6-MMDDYY-DUP DU-6-MMDDYY-TRIP	46	5 feet 8 inches	Yes	46	3 feet South 2 feet East	1 foot 6 inches South 4 inches West
DU-7A	DU-7A-MMDDYY DU-7A-MMDDYY-DUP DU-7A-MMDDYY-TRIP	46	6 feet	Yes	46	2 feet South 1 inch East	3 feet 10 inches South 1 foot 4 inches West
DU-7B	DU-7B-MMDDYY	46	8 feet 8 inches	No	--	--	--
DU-7C	DU-7C-MMDDYY	45	10 feet	No	--	--	--
DU-8	DU-8-MMDDYY DU-8-MMDDYY-DUP DU-8-MMDDYY-TRIP	42	7 feet 9 inches	Yes	42	11 inches North 1 foot 11 inches East	1 foot 8 inches South 1 inch West
DU-9	DU-9-MMDDYY	45	6 feet 6 inches	No	--	--	--

(a) DU - decision unit.
(b) Duplicate/triplicate increments have the same spacing as the primary increments.

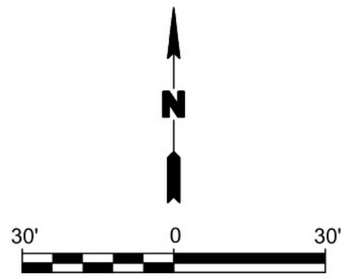


LEGEND

- CONCRETE SLAB OUTLINE
- FORMER TRANSFORMER PAD
- PROPOSED DECISION UNITS
- APPROXIMATE CONDENSATE PITS
- PREVIOUSLY CHARACTERIZED ASPHALT OR CONCRETE GROUND SURFACE

NOTES

1. CONDENSATE PIT LOCATIONS ARE APPROXIMATE AND BASED ON A HISTORICAL SITE PLAN FOR FORMER GENERATING UNITS 1 AND 2
2. SF = SQUARE FEET, APPROXIMATE
3. * = SF INCLUDES CONDENSATE PIT SIDE WALLS (APPROXIMATELY 5.1 FEET DEEP)



Title:

SITE LAYOUT AND PROPOSED DECISION UNITS

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for:

BTC III ETIWANDA COMMERCE CENTER LP

ROUX

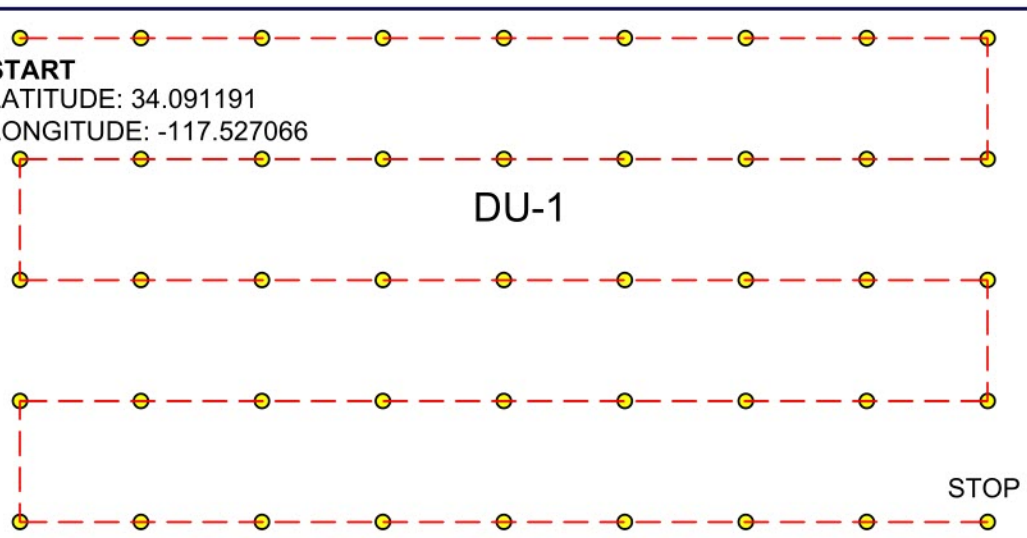
Compiled by: T.C.	Date: 4 OCT 2023	FIGURE
Prepared by: T.C.	Scale: AS SHOWN	1
Project Mgr: M.J.N.	Project: 3653.0001L	
File: 030_3653.0001L_VSP SOP.DWG		

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\030_3653.0001L_VSP SOP.DWG

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\030_3653.0001L_VSP SOP.DWG

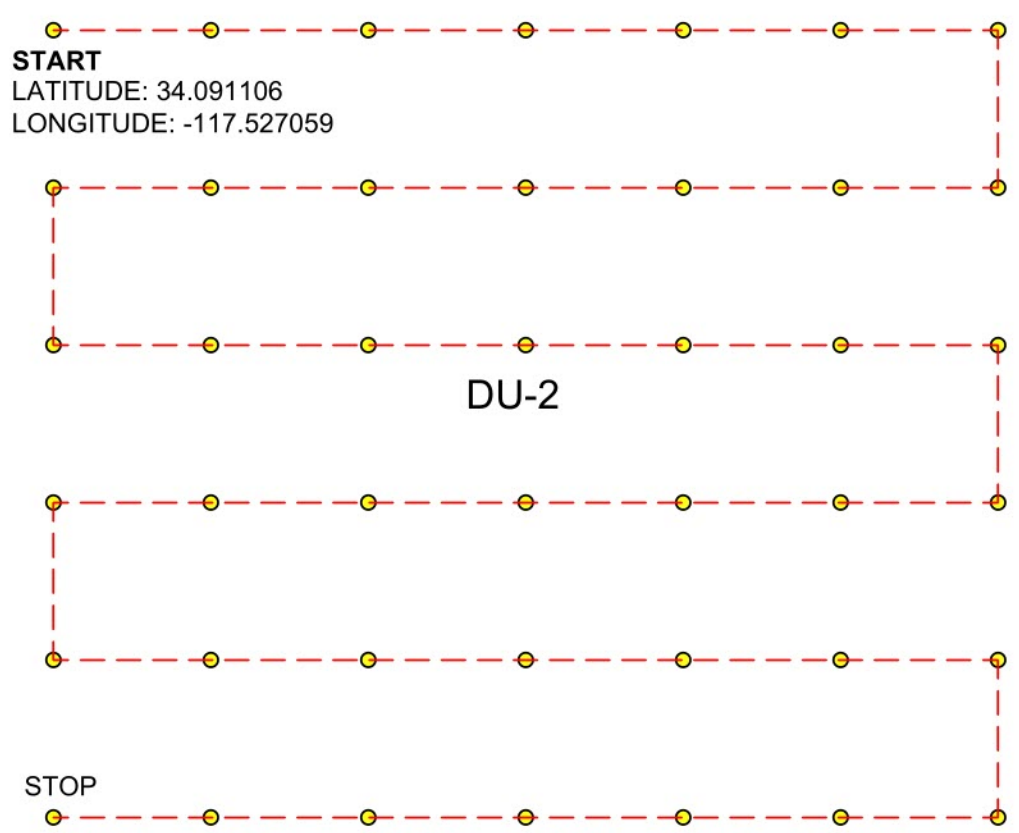
DU-1
45 GROUND SURFACE INCREMENTS

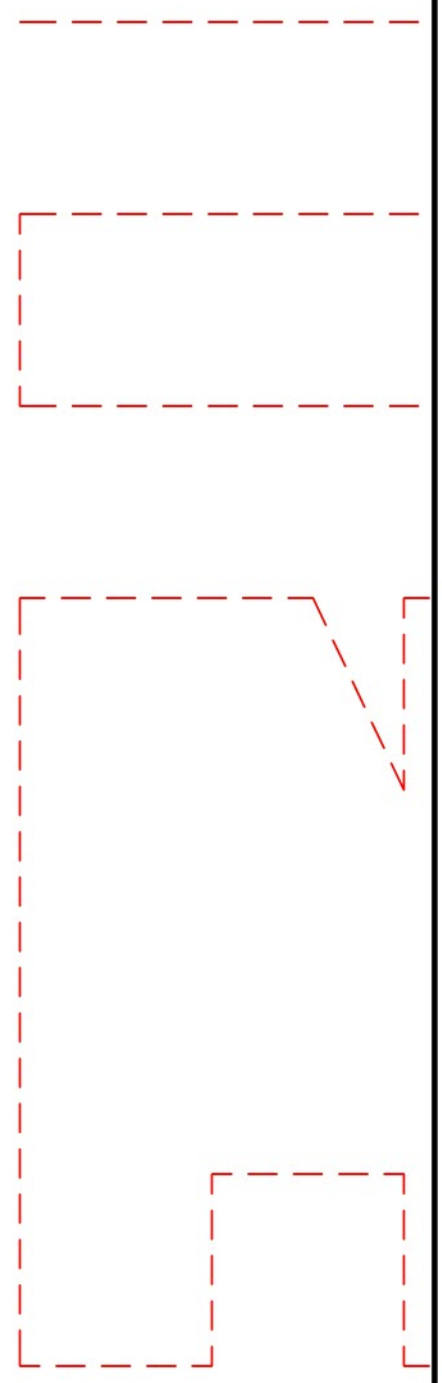
INCREMENT SPACING = 6'4"
TOTAL SAMPLE MASS = 1,350 GRAMS



DU-2
42 GROUND SURFACE INCREMENTS

INCREMENT SPACING = 8'2"
TOTAL SAMPLE MASS = 1,260 GRAMS





LEGEND

- CONCRETE SLAB OUTLINE
- SAMPLING PATH
- PROPOSED DECISION UNITS
- PROPOSED INCREMENTS

NOTES

1. INCREMENT SPACING IS TO THE NEAREST INCH
2. ISM SOP = INCREMENTAL SAMPLING METHODOLOGY STANDARD OPERATING PROCEDURE
3. COORDINATES ARE IN DECIMAL DEGREES (WGS84)

N

10' 0 10'

Title:

ISM SOP SAMPLING PATH: DU-1 AND DU-2

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for

BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: T.C.	Date: 4 OCT 2023	FIGURE
Prepared by: T.C.	Scale: AS SHOWN	2
Project Mgr: M.J.N	Project: 3653.0001L	
File: 030_3653.0001L_VSP SOP.DWG		

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\030_3653.0001L_VSP SOP.DWG

DU-3A
COLLECT FIRST: 36 GROUND SURFACE INCREMENTS
COLLECT NEXT: 3 CONDENSATE PIT FLOOR INCREMENTS
COLLECT LAST: 4 CONDENSATE PIT WALL INCREMENTS

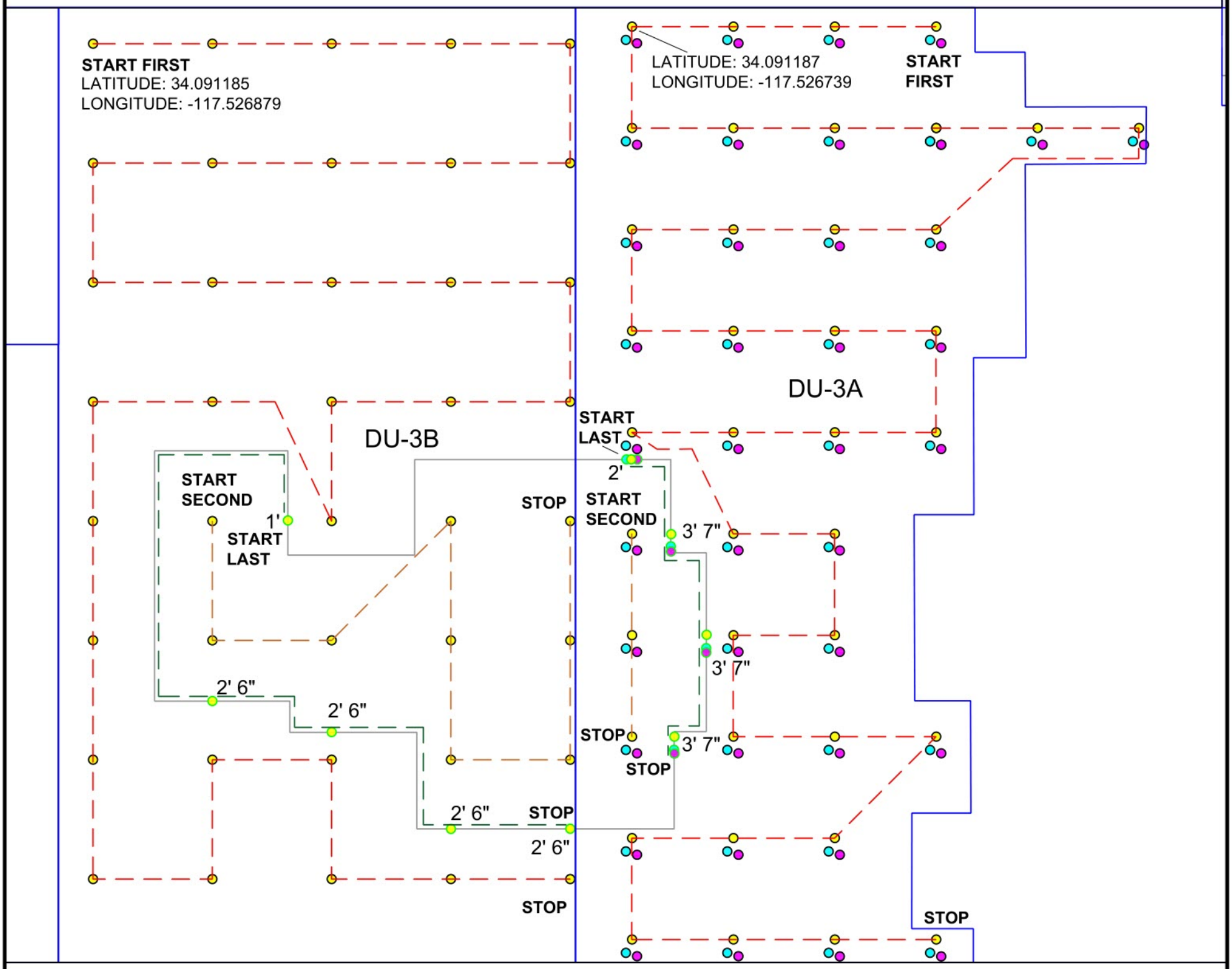
INCREMENT SPACING = 8' 6"
TOTAL SAMPLE MASS = 1,290 GRAMS

DUPLICATE INCREMENTS TO BE COLLECTED FOLLOWING COMPLETION OF PRIMARY INCREMENT COLLECTION AND EQUIPMENT DECONTAMINATION

TRIPLICATE INCREMENTS TO BE COLLECTED FOLLOWING COMPLETION OF DUPLICATE INCREMENT COLLECTION AND EQUIPMENT DECONTAMINATION

DU-3B
COLLECT FIRST: 31 GROUND SURFACE INCREMENTS
COLLECT NEXT: 9 CONDENSATE PIT FLOOR INCREMENTS
COLLECT LAST: 5 CONDENSATE PIT WALL INCREMENTS

INCREMENT SPACING = 10'0"
TOTAL SAMPLE MASS = 1,350 GRAMS



LEGEND

- CONCRETE SLAB OUTLINE
- SAMPLING PATHS (FIRST TO LAST)
- PROPOSED DECISION UNITS
- APPROXIMATE CONDENSATE PITS
- PROPOSED INCREMENTS
- PROPOSED DUPLICATES
- PROPOSED TRIPLICATES
- PROPOSED SIDEWALL INCREMENTS
- PROPOSED SIDEWALL DUPLICATES
- PROPOSED SIDEWALL TRIPLICATES

NOTES

1. CONDENSATE PIT LOCATIONS ARE APPROXIMATE AND BASED ON A HISTORICAL PLAN FOR FORMER GENERATING UNITS 1 AND 2
2. INCREMENT SPACING IS TO THE NEAREST INCH
3. ISM SOP = INCREMENTAL SAMPLING METHODOLOGY STANDARD OPERATING PROCEDURE
4. SIDEWALL INCREMENT LOCATIONS WERE DETERMINED BY INCLUDING THE AREA OF THE CONDENSATE PIT WALLS IN THE TOTAL DU AREA ENTERED INTO VISUAL SAMPLE PLAN (VSP).
5. NUMBER LISTED NEXT TO EACH SIDEWALL INCREMENT REPRESENTS THE INCREMENT COLLECTION HEIGHT ABOVE CONDENSATE PIT FLOOR SURFACE

Title:

ISM SOP SAMPLING PATH: DU-3A AND DU-3B

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for

BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: T.C.	Date: 4 OCT 2023
Prepared by: T.C.	Scale: AS SHOWN
Project Mgr: M.J.N	Project: 3653.0001L
File: 030_3653.0001L_VSP SOP.DWG	

FIGURE 3

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\030_3653.0001L_VSP SOP.DWG

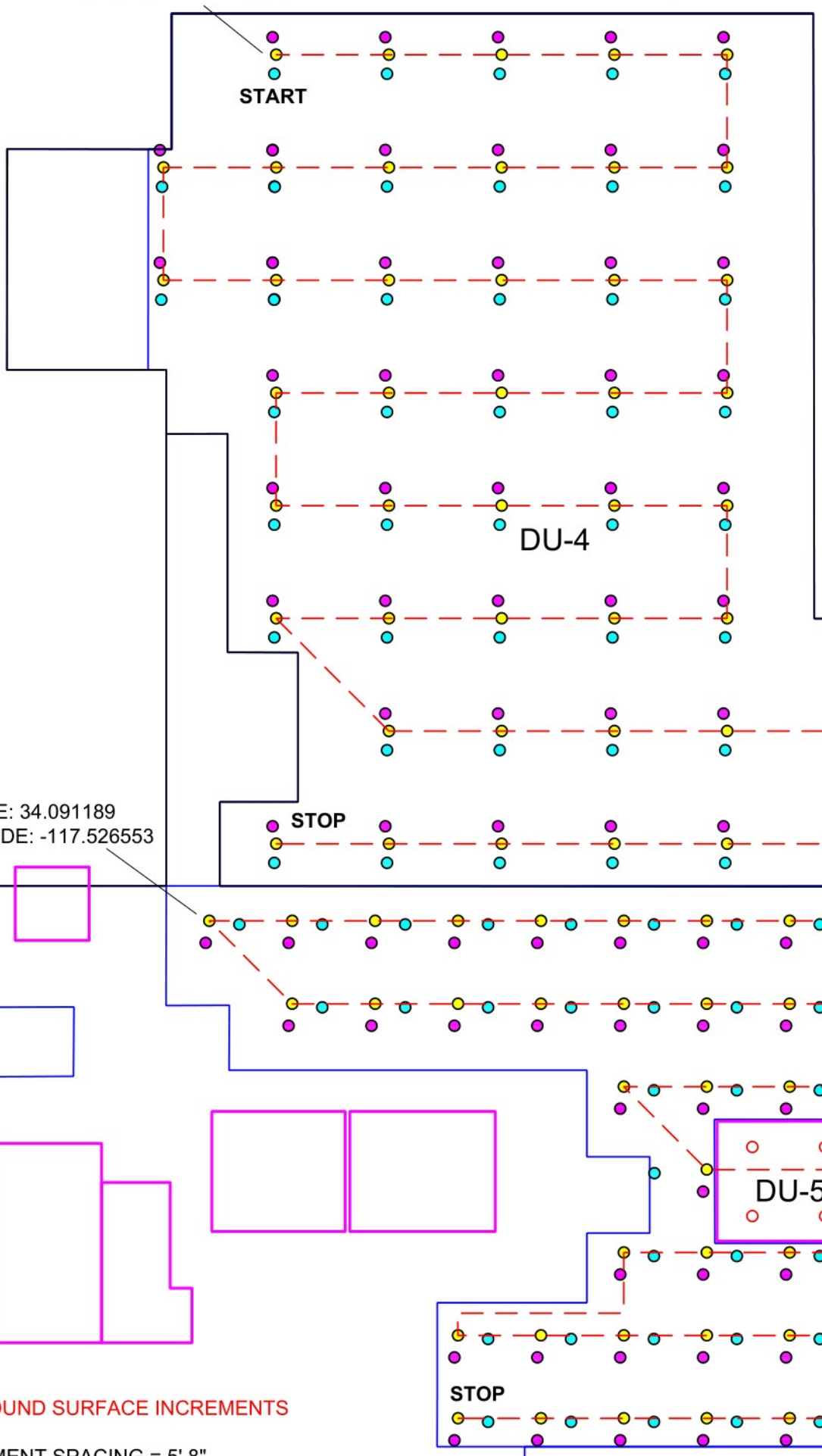
DU-4
46 GROUND SURFACE INCREMENTS

INCREMENT SPACING = 7' 9"
TOTAL SAMPLE MASS = 1,380 GRAMS

DUPLICATE INCREMENTS TO BE COLLECTED FOLLOWING COMPLETION OF PRIMARY INCREMENT COLLECTION AND EQUIPMENT DECONTAMINATION

TRIPLICATE INCREMENTS TO BE COLLECTED FOLLOWING COMPLETION OF DUPLICATE INCREMENT COLLECTION AND EQUIPMENT DECONTAMINATION

LATITUDE: 34.091354
LONGITUDE: -117.526542



DU-6
46 GROUND SURFACE INCREMENTS

INCREMENT SPACING = 5' 8"
TOTAL SAMPLE MASS = 1,380 GRAMS

DUPLICATE INCREMENTS TO BE COLLECTED FOLLOWING COMPLETION OF PRIMARY INCREMENT COLLECTION AND EQUIPMENT DECONTAMINATION

TRIPLICATE INCREMENTS TO BE COLLECTED FOLLOWING COMPLETION OF DUPLICATE INCREMENT COLLECTION AND EQUIPMENT DECONTAMINATION

LEGEND

- CONCRETE PAD OUTLINE
- SAMPLING PATH
- FORMER TRANSFORMER PAD
- PROPOSED DECISION UNITS
- PROPOSED INCREMENTS
- PROPOSED DUPLICATES
- PROPOSED TRIPLICATES
- PROPOSED DISCRETE SAMPLE

NOTES

1. INCREMENT SPACING IS TO THE NEAREST INCH
2. ISM SOP = INCREMENTAL SAMPLING METHODOLOGY STANDARD OPERATION PROCEDURE
3. DISCRETE SAMPLES WILL ONLY BE COLLECTED FROM DU-5

N

10' 0 10'

Title:

ISM SOP SAMPLING PATH: DU-4 AND DU-6

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for

BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: T.C.	Date: 4 OCT 2023
Prepared by: T.C.	Scale: AS SHOWN
Project Mgr: M.J.N	Project: 3653.0001L
File: 030_3653.0001L_VSP SOP.DWG	

FIGURE 4

DU-7B
COLLECT FIRST: 41 GROUND SURFACE INCREMENTS
COLLECT NEXT: 4 CONDENSATE PIT FLOOR INCREMENTS
COLLECT LAST: 1 CONDENSATE PIT WALL INCREMENT

INCREMENT SPACING = 8' 8"
TOTAL SAMPLE MASS = 1,380 GRAMS

DU-7A
46 GROUND SURFACE INCREMENTS

INCREMENT SPACING = 6' 0"
TOTAL SAMPLE MASS = 1,380 GRAMS

DUPLICATE INCREMENTS TO BE COLLECTED FOLLOWING COMPLETION OF PRIMARY INCREMENT COLLECTION AND EQUIPMENT DECONTAMINATION

TRIPLICATE INCREMENTS TO BE COLLECTED FOLLOWING COMPLETION OF DUPLICATE INCREMENT COLLECTION AND EQUIPMENT DECONTAMINATION

LATITUDE: 34.091085
LONGITUDE: -117.526483

DU-7A

START

STOP

START FIRST

LATITUDE: 34.091175
LONGITUDE: -117.526362

DU-7B

START LAST
STOP
2'

START SECOND

STOP

STOP

START

LATITUDE:
34.091186
LONGITUDE:
-117.526232

DU-7C

START SECOND

START LAST
3' 11"
STOP

2' 9"

2' 9"

2' 9"
2' 9"

STOP

STOP

DU-7C
COLLECT FIRST: 31 GROUND SURFACE INCREMENTS
COLLECT NEXT: 9 CONDENSATE PIT FLOOR INCREMENTS
COLLECT LAST: 5 CONDENSATE PIT WALL INCREMENTS

INCREMENT SPACING = 10' 0"
TOTAL SAMPLE MASS = 1,350 GRAMS

LEGEND

- CONCRETE SLAB OUTLINE
- SAMPLING PATHS (FIRST TO LAST)
- FORMER TRANSFORMER PAD
- PROPOSED DECISION UNITS
- APPROXIMATE CONDENSATE PIT
- PROPOSED INCREMENTS
- PROPOSED DUPLICATES
- PROPOSED TRIPLICATES
- PROPOSED SIDEWALL INCREMENTS

NOTES

1. CONDENSATE PIT LOCATIONS ARE APPROXIMATE AND BASED ON A HISTORICAL PLAN FOR FORMER GENERATING UNITS 1 AND 2
2. INCREMENT SPACING IS TO THE NEAREST INCH
3. ISM SOP = INCREMENTAL SAMPLING METHODOLOGY STANDARD OPERATING PROCEDURE
4. SIDEWALL INCREMENT LOCATIONS WERE DETERMINED BY INCLUDING THE AREA OF THE CONDENSATE PIT WALLS IN THE TOTAL DU AREA ENTERED INTO VISUAL SAMPLE PLAN (VSP).
5. NUMBER LISTED NEXT TO EACH SIDEWALL INCREMENT REPRESENTS THE INCREMENT COLLECTION HEIGHT ABOVE CONDENSATE PIT FLOOR SURFACE

N

10' 0 10'

Title:

ISM SOP SAMPLING PATH: DU-7A, DU-7B, AND DU-7C

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for:

BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: T.C.	Date: 4 OCT 2023	FIGURE
Prepared by: T.C.	Scale: AS SHOWN	5
Project Mgr: M.J.N.	Project: 3653.0001L	
File: 030_3653.0001L_VSP SOP.DWG		

S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\030_3653.0001L_VSP SOP.DWG

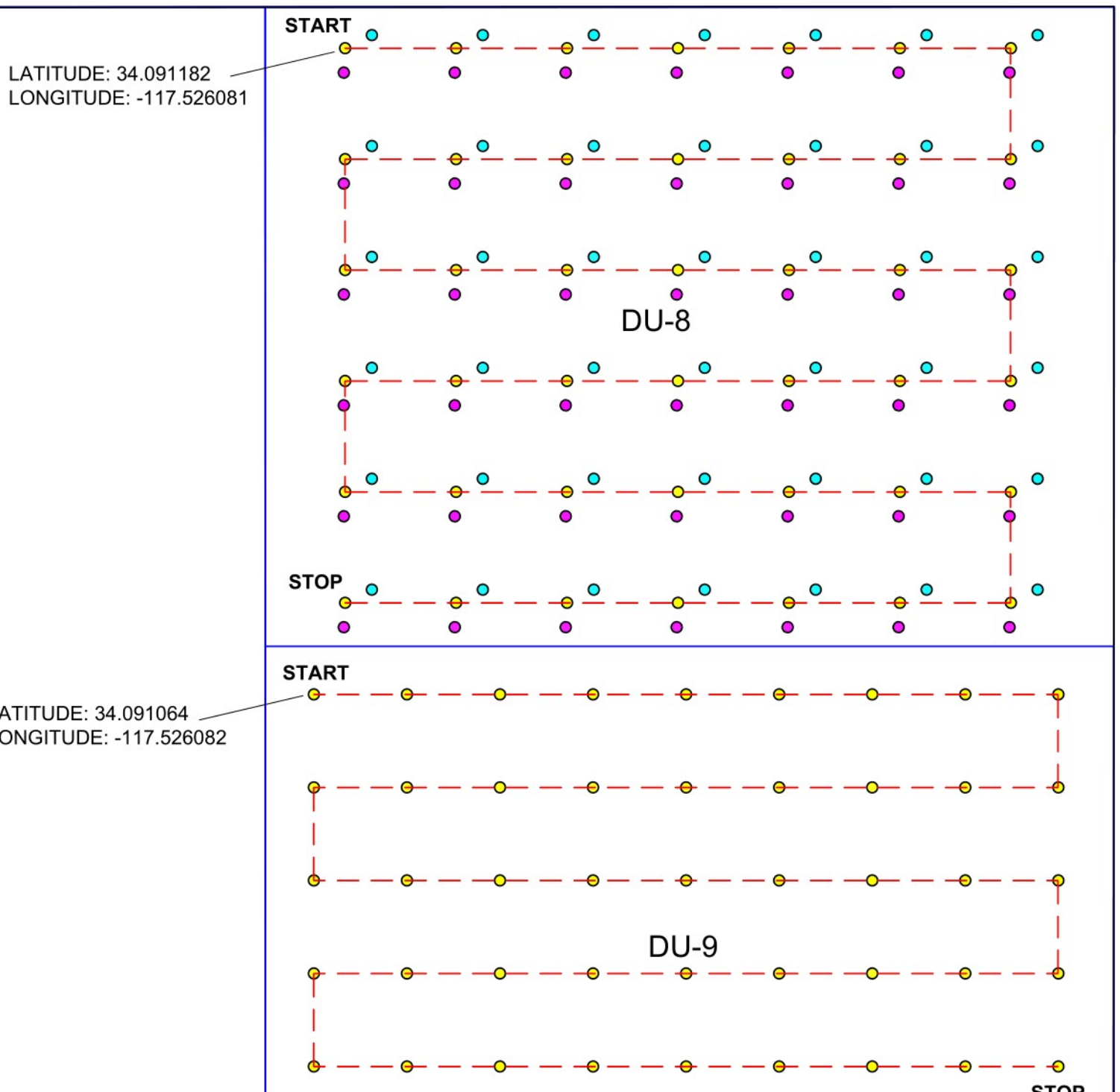
S:\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\030_3653.0001L_VSP SOP.DWG

DU-8
42 GROUND SURFACE INCREMENTS

INCREMENT SPACING = 7' 9"
TOTAL SAMPLE MASS = 1,260 GRAMS

DUPLICATE INCREMENTS TO BE COLLECTED FOLLOWING COMPLETION OF PRIMARY INCREMENT COLLECTION AND EQUIPMENT DECONTAMINATION

TRIPLICATE INCREMENTS TO BE COLLECTED FOLLOWING COMPLETION OF DUPLICATE INCREMENT COLLECTION AND EQUIPMENT DECONTAMINATION



DU-9
45 GROUND SURFACE INCREMENTS

INCREMENT SPACING = 6' 6"
TOTAL SAMPLE MASS = 1,350 GRAMS

LEGEND

- CONCRETE SLAB OUTLINE
- SAMPLING PATH
- PROPOSED DECISION UNITS
- PROPOSED INCREMENTS
- PROPOSED DUPLICATES
- PROPOSED TRIPLICATES

NOTES

1. INCREMENT SPACING IS TO THE NEAREST INCH
2. ISM SOP = INCREMENTAL SAMPLING METHODOLOGY STANDARD OPERATING PROCEDURE

N

10' 0 10'

Title:

ISM SOP SAMPLING PATH: DU-8 AND DU-9

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

Prepared for

BTC III ETIWANDA COMMERCE CENTER LP

ROUX

Compiled by: T.C.	Date: 4 OCT 2023	FIGURE
Prepared by: T.C.	Scale: AS SHOWN	6
Project Mgr: M.J.N	Project: 3653.0001L	
File: 030_3653.0001L_VSP SOP.DWG		

Attachment 3
Laboratory Standard Operating Procedure for Multi-Incremental Sampling (MIS)

Title : **MULTI-INCREMENTAL SAMPLING (MIS)**

Document No. : SOP-M235
Revision No. : 2.2
Supersedes : 2.1

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Revision 2.2 changes are noted in bold italicized typeface and preceded by a "►" marker.

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APPROVED FOR RELEASE BY: _____ 4/20/2018
MANAGEMENT **DATE**

_____ 4/20/18
QA DEPARTMENT **DATE**

1. METHOD IDENTIFICATION

1.1. Multi-Incremental Sampling of Solid Matrices.

2. APPLICABLE MATRICES

2.1. Solid, soil, sludge and sediment samples.

3. ►DETECTION / QUANTITATION LIMITS

3.1. Not Applicable to this preparation procedure. Please refer to the determinative procedures that are specific to the target analytes being analyzed for.

4. SCOPE AND APPLICATION

4.1. Multi-Incremental Sampling is the process of taking multiple soil increments, across a defined decision unit in the field, and then again in the laboratory to produce a fully representative sample for preparation and analysis.

4.2. The procedure outlined in this SOP is not to be used for the preparation of VOC samples nor for samples requiring analysis for Explosives via EPA 8330B.

4.2.1. The procedures presented in this SOP are limited to samples that require nonvolatile analysis only. Volatile analyses (8260, 8015 GRO and DRO, Mercury and certain PAH's) are adversely impacted by the drying and sieving procedure due to volatilization of target analytes and is therefore not recommended.

4.2.1.1. Samples for 8260 or 8015 GRO should be collected using method 5035 (encore or terracore) kits.

4.2.1.1.1. Additionally, MIS aliquotting in the field, following the HEER guidance is preferred: use a collection device such as an easy-draw syringe and 500ml or 1 liter amber containers with methanol in a 1:1 ratio.

4.2.1.2. Samples for percent moisture, 8015 DRO/TPHD, mercury and the volatile PAH's should be taken immediately from the field sample, prior to drying and sieving.

4.2.2. Refer to Appendix A and Appendix B, for a listing of analytes and preferred treatment processes.

4.2.3. Samples for Explosives by EPA 8330B must undergo a grinding procedure prior to analysis. The grinding procedure is not outlined in this SOP.

4.3. Sub-sampling, homogenization, drying and sieving practices have an important effect on the reported results. Improper incremental sampling procedures can lead to results that have significant biases and large imprecision.

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4.4. This is a time intensive procedure and great care must be taken to assure the samples are handled properly throughout all steps of this process. EPA recommended holding times start when the sample is initially collected. As the MIS procedure takes 1 to 5 days, monitoring holding times is critical.

5. ►METHOD SUMMARY

5.1. A solid/soil sample (50g to 2000g) is received directly from the field, often in large resealable bags. The sample is 'homogenized', large 'clumps' broken down to a consistent size, spread out on a tray and ***MI subsamples are taken "wet" for the more volatile analytes, (ie. mercury, some PAHs, cyanide, TPH-D. etc).***

5.2. ***The "dry" samples are*** allowed to air dry for a minimum of one to five days.

5.3. Once dry, the entire sample is passed through a #10 sieve to reduce the particle size of the sample to less than 2mm. The sample is then incrementally sampled to produce an aliquot for preparation and analysis for any one of many nonvolatile analyses.

5.4. Comments

5.4.1. Collect samples to be tested for VOCs (including TPHg) separately from samples to be tested for SVOCs and non-volatile chemicals;

5.4.2. MI samples to be tested for VOCs:

5.4.2.1. Consider field preservation of increments in methanol using the procedure outlined in the HEER document. A summary is included below:

5.4.2.1.1. Please note that the 150 mL methanol composite should not be shipped to the lab, but instead should be allowed to equilibrate (sit) for 24 to 48 hours, under proper conditions (0−6°C).

5.4.2.1.2. Following this period of rest, a 20−40 mL aliquot of the methanol should be subsampled and that aliquot should be sent to the lab for analysis. This helps with any potential shipping issues.

5.4.2.1.3. We will need the tare weights of the methanol and container both pre and post sample collection in order to determine exact sample weight.

5.4.2.2. Hazardous materials shipping regulations restrict the volume of methanol to no more than 30 milliliters per container and a maximum of one liter per cooler;

5.4.2.2.1. If shipping methanol-preserved samples is not practical then consider freezing individual 5035 increments for shipment and having the increments combined in methanol at the lab;

5.4.2.3. Include naphthalene as a VOC;

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5.4.3. MI samples to be tested for semi-volatile chemicals (see Appendix A, Table 1):

5.4.3.1. Collect samples to be tested for SVOCs separately from samples to be tested for VOCs;

5.4.3.2. Samples do not have to be field-preserved, but should be cooled and immediately subsampled for testing upon receipt at the laboratory;

5.4.4. At the lab:

5.4.4.1. Subsample MI samples to be tested for SVOCs (see Table 1; including % Moisture, TPHd, some PAHs and mercury), immediately after the sample is homogenized and spread out and prior to drying and sieving.

5.4.4.1.1. ***The wet material is tested*** for percent moisture in order to convert analytical results to dry-weight basis;

5.4.4.1.2. All other analyses are already in a dry weight form and will not be further corrected for moisture.

5.4.4.2. Follow standard drying and sieving methods if additional tests are required for non-volatile chemicals using a different lab analysis.

5.4.5. If both SVOC and non-volatile PAHs are targeted as contaminants of potential concern, then include testing for both in laboratory subsamples collected from the MI sample prior to drying and sieving.

6. DEFINITIONS

6.1. Blank: A sample that has not been exposed to the analyzed sample stream in order to monitor contamination during sampling, transport, storage, preparation or analysis. The blank is subjected to the usual analytical and measurement process to establish a background value.

6.2. Composite: A sample that is an aggregate of separate discrete samples.

6.3. Corrective Action: The action taken to eliminate the causes of an existing nonconformity, defect or other undesirable situation in order to prevent recurrence.

6.4. Holding Times: The maximum times that samples may be held prior to analysis and still be considered valid or not compromised. The holding time for SVOC analyses is 14 days from collection.

6.5. Homogenize: To make uniform in consistency.

6.6. Increment: One of a series of regular additions or contributions:

6.7. Multi-Increment®: a comprehensive sampling methodology used to represent a specific population (decision unit) and provide a foundation for defensible decision making.

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6.8. Multi-layered Sample: A sample consisting of two or more clearly differentiated components (visually distinct layers of material). The layers may be a result of density difference such as liquid/liquid layers, liquid/solid layers, solid/solid layers (small rocks and large rocks), or a combination of these layers.

6.9. Particle Size: The controlling lineal dimension of individual particles, or, the physical dimension of an object's pieces or parts.

6.10. Sieve: A tool to separate materials of one characteristic or size from another.

6.11. Sieving: A simple technique of separating particles of different sizes by passing the material through a sieve of predetermined mesh size.

6.12. Sub-sample: A portion of a sample taken for the purpose of estimating properties or composition of the whole sample.

6.13. VOC: Volatile Organic Compounds - have a low boiling point, and a high vapor pressure at room temperature which causes large numbers of molecules to evaporate or sublimate from the liquid or solid form of the compound and enter the surrounding air.

7. INTERFERENCES

7.1. The equipment used in this procedure will be used for multiple samples. Proper cleaning of all related equipment between samples is essential for the success of this preparation procedure.

7.2. Multi-incremental sampling must be conducted in an area free from contamination that is easily decontaminated and is vented to control dust and fumes.

7.3. All materials, benches, racks, etc. must be kept clean and free from dust and particulates that can contaminate the samples while being dried. Ensure that all preparation areas are wiped clean of dust and debris prior to beginning this procedure.

8. SAFETY

8.1. Solids, soils and sediments may contain chemically or biologically active toxicants. Exposure to these agents and associated reagent chemicals should be minimized through the use of proper protective equipment and safe laboratory practices as referenced in the current Eurofins Calscience Health & Safety Manual.

8.1.1. At a minimum, Personal Protective Equipment (PPE) includes safety glasses, nitrile or latex gloves and lab coats. Additional safety equipment should be used as needed.

8.2. Cracked or broken glassware should be immediately discarded into a broken glassware receptacle. Broken glassware shall never be used.

8.3. Material Safety Data Sheets (MSDSs) are available for each laboratory reagent and chemical. Employees should review and be familiar with the hazards and precautions outlined in the MSDS for all chemicals to be used prior to handling.

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8.4. To ensure the safety of the technician, this procedure should not be performed alone. Another technician or chemist should be in the vicinity and must check in on the technician.

9. EQUIPMENT AND SUPPLIES

9.1. 2-mm Sieves (#10).

9.2. Aluminum foils and paper liners, large width.

9.3. Bakers racks, various sizes.

9.4. Certified clean sampling jars, 2oz, 4oz, 8oz and 16oz.

9.5. Cookie sheets/baking pans (3/4"-1" deep), plastic and stainless steel, various sizes.

9.6. Dispensers, plastic squeezable, for solvent, 1/2 liter.

9.7. Sample labels and indelible pens/markers.

9.8. Stainless steel spatulas, wooden tongue depressors, Teflon-coated or other plastic spatulas or spoons.

9.9. Stainless steel, Teflon-coated, or other plastic forceps and/or tweezers, large.

9.10. Stainless steel, square-bottomed scoops for IS aliquotting.

9.11. Stainless steel, Teflon coated and plastic bowls, medium and large.

9.12. Top–loading balance, capable of weighing to 0.1 grams.

9.13. Washing brushes, various types and sizes.

10. REAGENTS AND STANDARDS

10.1. Reagents are used only for the cleaning and drying of related incremental sampling equipment used in this procedure.

10.1.1. Reagent grade chemicals are used. Other grades may be used, provided it is first ascertained that the reagent is of sufficiently high purity to permit its use without lessening the accuracy of the determination.

10.1.2. Alconox detergent solution or equivalent.

10.1.3. Nitric Acid Solution 0.5 Normal, employed as a decontamination / cleaning solution.

10.1.4. Acetone or Methanol, reagent grade, used as a cleaning/drying solvent.

11. ►SAMPLE COLLECTION, PRESERVATION, CONTAINERS AND HOLDING TIMES

11.1. Please refer to the specific determinative extractive/digestive and analytical procedures for the target analytes of concern.

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12. ►QUALITY CONTROL

12.1. ***Refer to the appropriate analytical method for guidance on quality control procedures.***

13. CALIBRATION AND STANDARDIZATION

13.1. Calibration and standardization protocols are defined by the determinative extractive and analytical procedures that are specific to the target analytes.

14. ►PROCEDURE

14.1. Drying Tray and Equipment Preparation:

14.1.1. The baking sheets used for drying the samples will be stainless steel or plastic. There are medium (13" x 18") and large (18" x 26") sheets. Choose the appropriate size based upon the volume of sample received. Too big is better than too small.

14.1.2. Prior to use, and between samples, the trays, sieves bowls and other sample related equipment must be washed thoroughly with Alconox ***or Liquinox*** detergent solution, rinsed and thoroughly dried. Use a brush for cleaning as needed.

14.1.3. After cleaning with ***detergent,*** rinse the equipment with copious amounts of tap water until the detergent residue is removed and then do a final rinse with DI water.

14.1.3.1. After rinsing, stainless steel and Teflon coated equipment may be further rinsed with a dilute (0.5N) solution of Nitric Acid using a dispenser bottle.

14.1.4. Dry the equipment with clean paper towels, Kimwipe® type tissues and/or allow it to air dry on racks.

14.1.4.1. Stainless steel or Teflon coated equipment may be dried with the use of a solvent such as methanol or acetone. If solvent is used the equipment must be allowed to "dry" under the hood until the solvent has fully evaporated from the surface. And, the solvent rinses must be collected in an appropriate satellite waste container for flammable solvents.

14.1.5. Once dried, the equipment is now ready for use.

14.1.5.1. This cleaning process must be followed between each sample. Multiple sets of sieves and bowls are suggested to expedite the process.

14.1.6. Prior to use for sample drying, the working surface of the trays are to be covered with aluminum foil or a clean paper liner.

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14.1.7. It is suggested that two opposite sides of the baker's rack be covered with paper or aluminum foil, leaving the two ends open to air, to limit the amount of sample disturbance while still allowing air to access and pass over the samples.

14.2. ►Sample Preparation:

14.2.1. Take a single aluminum foil or paper covered medium or large tray (depending on the sample volume received), and label it by writing the Work Order number, sample number and container ID on a corner of the paper, or on a label which is then affixed to the tray.

14.2.2. Apply the label to the edge of the tray so it is visible when the tray is placed in the baker's rack.

14.2.3. Samples will be received in bulk form and contained in one of many sample collection devices: brass, stainless or acetate sleeves, glass jars, resealable bags.

14.2.3.1. The entire sample (anywhere from 100g to 2000g) will be used in the procedure and care must be taken to ensure that the entire sample is removed from the collection device.

14.2.4. Decant water or Homogenize as follows:

14.2.4.1. Decantable water (a separate distinct water layer on top of the soil) will be poured off of the sample prior to drying unless otherwise dictated by the client or project-specific requirements.

14.2.4.1.1. Collect the decanted fluid in an appropriate waste collection device. Do not pour down the drain. If the project requires the aqueous aliquot be maintained, pour off into a clean sample jar and label.

14.2.4.2. Moisture, or water that is a part of the sample such as sludge, will be fully incorporated into the sample by stirring or mixing prior to drying.

14.2.4.2.1. If there is sufficient space in the sample container to homogenize the sample directly within it, use a clean, Teflon spoon or stainless spatula to mix thoroughly.

14.2.4.2.2. If there is not sufficient room to homogenize without the risk of losing material from the container, transfer the entire sample to a clean stainless steel bowl and mix thoroughly using a clean Teflon spoon or stainless steel spatula.

14.2.5. Once the tray is labeled, empty the <u>entire</u> contents of the sample container onto the tray. Break up any large sample clumps using the spatula and/or Teflon spoon but do not grind the sample. (A clean mortar and pestle may

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be used if absolutely needed, but do not grind the sample to a fine dust, only break up the clumps to a size consistent with the rest of the sample.)

14.2.5.1. Samples received in sleeves may be difficult to remove. Use a clean stainless steel spatula or Teflon spoon to help loosen the contents to ensure complete transfer.

14.2.6. Using a stainless steel spatula or Teflon spoon, spread out the sample evenly over the entire aluminum foil covered tray. The material should be approximately ¼ to ½ of an inch thick.

14.2.6.1. Extraneous material such as leaves, twigs, rocks or stones, etc. may be removed from the sample at this time, although this is not always necessary as they will be removed via the sieving process. Only remove if their presence may prevent proper drying (a layer of leaves, etc) of the sample. If removed, the extraneous objects are to be returned to the original sample container.

14.2.6.1.1. Use forceps or tweezers to remove these objects, and not fingers.

14.3. ***The sample is now ready for incremental sub-sampling.***

14.3.1. ***Incremental Sub-Sampling Protocol:***

14.3.1.1. Now that the sample has been spread out on the tray, it can be sub-sampled using an incremental approach. To do this, visually divide up the sample into 30 approximately equal 'sampling areas' – 6 rows and 5 columns.

14.3.1.2. It is suggested that you use a ruler to approximate the sampling areas. (Do not touch the sample with the ruler.) Instead, mark the outside of the tray with colored tape to designate the boundaries and then use the stem end of a clean Teflon or steel spatula to 'score' the sample into 30 sections.

14.3.1.3. Another approach is to use a template suitable for the size tray being used to demarcate the areas for sampling (if this is done, the template shall be made of suitable material such as Teflon).

14.3.1.4.

14.4. ***"Wet Samples":***

14.4.1. ***If mercury, volatile PAH's and/or TPH D is required, remove sufficient sample volume from the tray with a stainless steel or Teflon spatula or square bottom scoop to remove the soil from each of the sampling areas and transfer into jars of suitable size. Be sure to collect a sample for percent moisture determination and try to limit the amount of headspace present.***

14.4.2.

14.4.2.1. Depending on the number of analyses and related QC required, the aliquots that will be removed from each

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sampling area will vary in weight from about 0.33 grams to as much as 1 or 2 grams of sample.

14.4.2.2. The aliquots for each analysis shall be collected separate from other analyses.

14.4.2.3. As an example: the testing needed involves mercury and TPH Diesel, collect the first thirty aliquots for the metals analysis and place in a 2-oz jar or a metals digestion tube. Each aliquot collected is approximately 0.33 grams for a total of ~10 grams.

14.4.2.4. Each aliquot will be combined together with the others and placed in a 2oz, 4oz, or other size jar, as needed.

14.4.2.5. As much as possible, remove aliquots with small particle size (~2mm) from the tray.

14.4.3. ***Label the jars with the work order and the next available sample numbers from that of the original samples and a container ID, i.e., if the original samples are numbered 1 through 4, the "wet " samples created are labeled numbers 5 (A, B, C… for each analytical method) through 8 (A, B, C…). Attach labels with the appropriate analytical method.***

14.4.4. ***Place the labeled container (jar or digestion tube) on a calibrated balance and tare. Place each of the thirty aliquots into the container. Once all thirty are combined, remove the container from the balance and record the weight to the nearest decimal place on the sample label.***

14.4.5. ***Record the applicable information in the MIS logbook:***

14.4.6. ***Date, Workorder Number, Sample ID, Container ID***

14.4.7. ***Circle the container type (jar, sleeve, bag, etc)***

14.4.8. Once completed, the sample jars are returned to sample control. Be sure to notify ***sample log-in or*** the PM so they can initiate log-in for the required analyses.

14.4.9. Following this, place the sample tray in the baker's rack with the label showing.

14.4.9.1. Follow the same procedure (14.2-14.4) for all other samples.

14.4.9.2. Record all pertinent information in the MIS logbook.

14.5. ***Drying:***

14.5.1. After the blank and all field samples have been properly spread out on the trays, ***the "wet" sample aliquots have been harvested,*** and the trays have been placed in the racks, roll the racks over to the hood and place in front to facilitate air flow over the samples. Be sure that one of the open ends of the rack faces the hood (is perpendicular to the hood sash).

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14.5.2. Pull the hood sash down to ***the "SASH POSITION"*** to maintain a constant flow of air in the lab without creating pockets of air that swirl and potentially disrupt the samples.

14.5.3. The samples must undergo a minimum of 24 hours of drying time and may be dried for up to five (5) days.

14.5.3.1. During the drying process, check each of the samples and if needed, gently "stir" the samples using a steel or Teflon spatula to expedite the release of moisture. Once you have stirred the samples about on the tray, re-spread out the soil to a standard depth of ¼ to ½ of an inch and continue the drying process.

14.5.3.2. If sample stirring is needed, remove the trays from the rack so as not to knock sample from one tray onto another and be careful not to lose any of the sample during the process.

14.5.4. When the samples appear to be dry, a minimum of 24 hours has passed and there are no obvious signs of moisture, the samples are now ready for sieving. ('Dry' samples should display a fairly consistent color, texture and appearance.)

14.5.4.1. It is advised that a small, representative aliquot (~10g) of each sample be weighed when assumed to have reached the point of 'dryness', and then again in a sequential manner to confirm that the change in mass has not varied by more than 0.5g. Sequential weighings should be at least one hour apart.

14.6. Sample Sieving Protocol:

14.6.1. The entire dried sample will be sieved prior to continuing with the incremental sampling procedure.

14.6.2. Retrieve a clean tray of suitable size and place ***in a hood*** and cover with a layer of paper or foil.

14.6.3. Retrieve a #10 (2mm) sieve and a dried-sample tray from the rack. Do not remove the sample label from the tray.

14.6.4. Hold the sieve over tray and begin adding sample to the sieve with a Teflon or other stainless steel spatula or spoon. (The soil can be formed into a mound on the tray to assist with the transfer process.)

14.6.4.1. At the start of the transfer process, do not attempt to lift the foil/paper off of the tray to pour the sample into the sieve as the foil may tear and subsequent loss of sample will occur. This can be done when there is a little sample left to aid in complete transfer of the sample to the sieve.

14.6.5. Shake the sieve gently from side to side allowing the sample to pass through the sieve onto the tray. (Move the sieve all over the tray; don't just allow the sample to form a mound in the middle of the tray.) Continue the process until the entire sample has passed through the sieve. Set the sieve aside for cleaning prior to further use.

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14.6.5.1. Any large items left in the sieve should be returned to the original sample container.

14.6.5.2. During the sieving process the sample should have been allowed to deposit over all areas of the tray, if there are larger mounds, distribute the sample to a fairly even level, ¼ to ½ of an inch, using a clean Teflon or stainless steel spatula. Gently 'shaking' the tray from side to side may also help to evenly distribute the sample across the tray.

14.6.6. The sample is now ready for incremental sub-sampling ***of "dry" samples***.

14.7. ***"Dry" Samples:***

14.7.1.1. Repeat the Incremental Sub-Sampling Protocol (14.3). Harvest incremental samples for each "dry" analysis (Metals (non-mercury), TPH motor oil, PCBs, etc.) in separate containers.

14.7.1.2. Label the jars with the work order and the next available sample numbers from that of the original samples and a container ID, i.e., if the original samples are numbers 1 through 4, the "dry " samples created are labeled numbers 9 (A, B, C...for each analytical method) through 12 (A, B, C...). Attach labels with the appropriate analytical method.

14.7.1.3. Place the labeled container (jar or digestion tube) on a calibrated balance and tare. Place each of the thirty aliquots into the container. Once all thirty are combined, remove the container from the balance and record the weight to the nearest decimal place on the sample label.

14.7.1.4. Record the applicable information in the MIS logbook:

14.7.1.4.1. Date, Workorder and ***Sample IDs.***

14.7.1.4.2. Enter date and time drying started

14.7.1.4.3. When complete, enter date and time drying finished

14.7.1.4.4. Include any needed comments

14.7.1.5. Make a copy of the logbook page(s) and provide to the PM.

14.7.1.6. The following table lists the minimum sample mass needed for samples and QC for the standard analyses.

Minimum Sample Mass Required for Analysis			
Analytical Method	**Environmental Sample Mass (g)**	**Prep Blank Mass (g)**	**MS/MSD Mass (g)**
EPA 8015 - ext	10	10	10/10

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EPA 8081A	20	20	20/20
EPA 8082	20	20	20/20
EPA 8141A	10	10	10/10
EPA 8270C	20	20	20/20
EPA 8270C - PAH	10	10	10/10
EPA 8270C - PAH SIM	20	20	20/20
EPA 8310	20	20	20/20
EPA 6010 / 6020	1.0	N/A	1.0/1.0
6010 or 6020, Low Level*	10	N/A	10/10
EPA 7471	0.6	N/A	0.6/0.6
7471, Low Level*	5.0	N/A	5.0/5.0
% Moisture	10	N/A	Dup - 10

*Specifically required for Hawaii projects, may also be performed by client or project requirement. Clients may also request an increase of the sample size for the organic analyses.

14.7.2. The sub-sample is now ready for further preparation and/or digestion.

14.7.3. ***Take the sample jars to sample control. Be sure to notify sample log-in or the PM so they can initiate log-in for the required analyses.***

14.7.4. Return any sample that would not pass through the sieve to the original sample container ***or new plastic bag with ID "Y".***

14.7.5. Return any additional MIS sample (after sieving) to a clean jar and label with the workorder ***number*** and sample ID "Z".

14.7.6. Return all containers to sample control.

14.7.7. ***Attach a "USDA Restricted Sample" label to samples from outside of mainland USA .***

14.8. Clean all utensils and equipment. After cleaning place in clean plastic bags or wrap with fresh aluminum foil and place in a secure area.

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15. CALCULATIONS

15.1. Calculation protocols are defined by the determinative extractive and analytical procedures that are specific to the target analytes.

16. METHOD PERFORMANCE

16.1. Method Performance is defined by the determinative extractive and analytical procedures that are specific to the target analytes.

17. POLLUTION PREVENTION

17.1. None.

18. DATA ASSESSMENT AND ACCEPTANCE CRITERIA

18.1. Data acceptance and acceptance criteria are defined by the determinative extractive and analytical procedures that are specific to the target analytes.

19. CORRECTIVE ACTIONS

19.1. If on the basis of internal or external systems or performance audits, routine monitoring of laboratory support equipment, or QC sample analysis results, analytical systems fail to meet the established criteria, an appropriate corrective action must be implemented.

19.2. The Operations Manager, Project Manager, QA Manager, Group Leader and analyst may be involved in identifying the most appropriate corrective action. If previously reported data are affected or if corrective action will impact the project, the action may directly involve the Laboratory Director.

19.3. Corrective actions are generally of two types, immediate and long-term actions.

19.3.1. An **immediate action** is designed to correct or repair nonconforming instruments and measurement systems. The analyst or Group Leader as a result of calibration checks and other QC sample analyses most frequently will identify the need for such an action.

19.3.2. A **long-term action** is designed to eliminate causes of nonconformance. The need for such actions is identified by systems and performance audits. The systematic nonconformances identified during the data generation process and the appropriate corrective measures taken are thoroughly documented in the Corrective Action Record. Examples of this type of action include:

19.3.2.1. Remedial training of staff in technical skills, technique or implementation of operating procedures.

19.3.2.2. Rescheduling of analytical laboratory routine to ensure analysis within holding times.

19.3.2.3. Revision of standard operating procedures.

19.3.2.4. Replacing personnel, as necessary.

19.4. For either type of corrective action, the sequential steps that compose a close-loop corrective action system are as follows:

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19.4.1. Define the problem.

19.4.2. Assign responsibility for investigating the problem.

19.4.3. Investigate and determine the cause of the problem.

19.4.4. Assign and accept responsibility for implementing the corrective action.

19.4.5. Determine effectiveness of the corrective action and implement.

19.4.6. Verify that the corrective action has eliminated the problem.

19.5. Depending on the nature of the problem, the corrective action employed may be formal or informal. In either case, occurrence of the problem, the corrective action employed, and verification that the problem has been eliminated must be properly documented on a Corrective / Preventive Action Record.

20. CONTINGENCIES FOR OUT-OF-CONTROL OR UNACCEPTABLE DATA

20.1. Out-of-Control and unacceptable data protocols are defined by the determinative extractive and analytical procedures that are specific to the target analytes.

21. WASTE MANAGEMENT

21.1. The proper disposal of analytical samples and laboratory wastes is not only good laboratory practice, but also regulated by a variety of local, state, and federal laws. In order to remain compliant with these laws, the samples and wastes are identified, segregated, and either returned to the client (preferable) or placed into the proper laboratory waste stream.

21.2. Each specific laboratory area shall maintain clearly labeled waste containers for small quantity waste collection. These satellite waste containers shall be used for temporary collection of residual sample from aliquotting procedures, contaminated consumables, sample extracts, purged aqueous samples, and other wastes that require disposal as hazardous waste.

21.3. Unused or remaining soil or liquid samples and all other solid or liquid wastes resulting from our laboratory operations are considered hazardous for disposal purposes.

21.4. Waste management procedures shall adhere to the current revision of SOP-T005, "Disposal of Laboratory Samples and Wastes."

21.5. To ensure compliance with Federal RCRA regulations, the Hazardous Waste Coordinator collects and disposes of the hazardous waste at each satellite collection point no less than monthly.

21.6. In order to maintain accountability for all samples received by Eurofins Calscience, when a sample is used in its entirety for analysis, the empty container(s) are returned to Sample Control for placement in analytical storage.

21.7. The toxicity, carcinogenicity and other health hazards associated with the use of biological specimens and most laboratory chemicals have not been precisely

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defined. Each specimen and chemical should be handled assuming it is a potential health hazard. Exposure to these specimens and chemicals should be minimized through the use of proper protective equipment and safe laboratory practices as referenced in the current revision of Eurofins Calscience's Health, Safety, and Respiratory Protection Manual.

21.8. Processes that promote vaporization of volatile chemicals should be performed in an area well ventilated to the exterior of the laboratory to prevent contamination to other areas in the laboratory.

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22. REFERENCES

22.1. Technical Guidance Manual Notes: Decision Unit and Multi-Increment* Sample Investigations. Roger Brewer and John Peard, Hazard Evaluation and Emergency Response (HEER), March 2011.

22.2. Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan, Interim Final, November 12, 2008.

22.3. ASTM D 6323-98 Standard Guide for Laboratory Subsampling of Media related to Waste Management Activities (Reapproved 2003).

22.4. United States EPA, "Guidance for Obtaining Representative Laboratory Analytical Sub-samples ***from*** Particulate Laboratory Samples", R. Gerlach and J. Nocerino, EPA/600/R-03/027, November 2003.

23. TABLES, DIAGRAMS, FLOWCHARTS AND VALIDATION DATA

23.1. Appendix A: Recommendations for MIS field preservation or laboratory subsampling based on overall chemical stability (e.g., volatility and half life).

- 23.1.1. Table 1: Volatile Chemicals: Preserve Samples in Methanol in the Field)
- 23.1.2. Table 2: Semi-Volatile or Otherwise Semi-Stable Chemicals: Subsample MI Bulk Sample at Laboratory Upon Receipt Without Drying
- 23.1.3. Table 3: Metals (presumed stable but depends on target species): Dry and Sieve MI Samples for Laboratory Subsampling
- 23.1.4. Table 4: Non-Volatile or Otherwise Stable Chemicals: Dry and Sieve MI Samples for Laboratory Subsampling

23.2. Appendix B: Recommendations for MIS field preservation or laboratory subsampling of samples to be tested for PAHs.

- 23.2.1. Table 1: Semi-Volatile PAHs (H >0.00001 AND MW <200): Subsample MI Bulk Sample at Laboratory Upon Receipt Without Drying
- 23.2.2. Table 2: Non-Volatile PAHs (H <0.00001 OR MW >200): Dry and Sieve MI Samples for Laboratory Subsampling

23.3. MIS Flowchart

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24. MODIFICATIONS

24.1. Not Applicable, SOP references multiple independent sources.

25. REVISION HISTORY

Revision	Description	Author	Effective Date
0.0	SOP Promulgated	L. Scharpenberg	04/27/2010
1.0	SOP Revised	L. Scharpenberg	08/01/2010
2.0	SOP Revised	L. Scharpenberg	11/26/2012
2.1	SOP Revised	L. Scharpenberg	06/02/2014
2.2	SOP Revised	R. McHale	05/23/2017

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APPENDIX A

Recommendations for MIS field preservation or laboratory subsampling based on overall chemical stability (e.g., volatility and half life)

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Table 1: CHEMICAL PARAMETER	[1]PhysicalState		Molecular Weight	[2]Vapor Pressure mm Hg (25C)	Henry's Law Constant (H) (atm-m3/mol)
[3]Volatile Chemicals **Preserve** Samples in Methanol **in the Field** (or approved alternative, see text)					
ACETONE	V	L	58	2.3E+02	3.9E-05
BENZENE	V	L	78	9.5E+01	5.61E-03
BIS(2-CHLOROETHYL)ETHER	V	L	143	1.[illegible]E+00	1.7E-05
BROMODICHLOROMETHANE	V	L	164	5.0[illegible]	2.1E-03
BROMOFORM	V	S	253	5.4[illegible]E+00	5.4E-04
BROMOMETHANE	V	G	[illegible]	[illegible]E+03	6.3E-03
CARBON TETRACHLORIDE	V	L	154	1.2E+02	2.7E-02
CHLOROBENZENE	V	L	113	1.2E+01	3.2E-03
CHLOROETHANE	V	G	65	1.0E+03	1.1E-02
CHLOROFORM	V	L	119	2.0E+02	3.7E-03
CHLOROMETHANE	V	G	50	4.3E+03	8.8E-03
2-CHLOROPHENOL	V	L	129	2.5E+00	1.1E-05
DIBROMOCHLOROMETHANE	V	S	208	5.5E+00	7.8E-04
1, 2-DIBROMOETHANE	V	S	188	1.1E+01	6.6E-04
1, 2-DICHLOROBENZENE	V	L	147	1.4E+00	1.9E-03
1, 3-DICHLOROBENZENE	V	L	147	2.2E+00	1.9E-03
1, 4-DICHLOROBENZENE	V	S	147	1.7E+00	2.4E-03
1, 1-DICHLOROETHANE	V	L	99	2.3E+02	5.6E-03
1, 2-DICHLOROETHANE	V	L	99	7.9E+01	1.2E-03
1, 1-DICHLOROETHYLENE	V	L	97	6.0E+02	2.7E-02
Cis 1,2-DICHLOROETHYLENE	V	L	97	2.0E+02	4.1E-03
Trans 1,2-DICHLOROETHYLENE	V	L	97	3.3E+02	9.3E-03
1, 2-DICHLOROPROPANE	V	L	113	5.3E+01	2.9E-03
1, 3-DICHLOROPROPENE	V	L	111	3.4E+01	3.7E-03
1, 4-DIOXANE	V	L	88	3.8E+01	4.9E-06
ETHANOL	V	L	46	5.9E+01	6.3E-06
ETHYLBENZENE	V	L	106	9.6E+00	7.8E-03
METHYL ETHYL KETONE	V	L	72	9.1E+01	5.6E-05
METHYL ISOBUTYL KETONE	V	L	100	2.0E+01	1.4E-04
METHYL TERT BUTYL ETHER	V	L	88	2.5E+02	5.9E-04
METHYLENE CHLORIDE	V	L	85	4.4E+02	3.2E-03
STYRENE	V	L	104	6.4E+00	2.7E-03
tert-BUTYL ALCOHOL	V	L	74	4.1E+01	1.2E-05
1,1,1,[illegible]TETRACHLOROETHANE	V	L	168	4.6E+00	2.4E-03
1,1,2,2-[illegible]TETRACHLOROETHANE	V	L	168	4.6E+00	3.7E-04
TETRACHL[illegible]ETHYLENE	V	L	166	1.9E+01	1.8E-02
TOLUENE	V	L	92	2.8E+01	6.6E-03
TPH (gasolines)	V	L	108	6.8E+02	7.2E-04
1,1,1- TRICHLOROETHANE	V	L	133	1.2E+02	1.7E-02
1,1,2- TRICHLOROETHANE	V	L	133	2.3E+01	8.3E-04
TRICHLOROETHYLENE	V	L	131	6.9E+01	9.8E-03
1,2,3-TRICHLOROPROPANE	V	L	147	3.7E+00	3.4E-04
1,2,3-TRICHLOROPROPENE	V	L	145	3.7E+00	2.8E-02
VINYL CHLORIDE	V	G	63	3.0E+03	2.7E-02
XYLENES	V	L	106	8.0E+00	7.1E-03

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Table 2: CHEMICAL PARAMETER	[1]PhysicalState		Molecular Weight	[2]Vapor Pressure mm Hg (25C)	Henry's Law Constant (H) (atm-m3/mol)
[4]Semi-Volatile or Otherwise Semi-Stable Chemicals [6,7]Subsample MI Bulk Sample at Laboratory Upon Receipt Without Drying					
1, 1-BIPHENYL	*SV	S	154	8.9E-03	3.2E-04
BIS(2-CHLOROISOPROPYL)ETHER	*SV	L	171	8.5E-01	1.1E-04
CYANIDE (sodium)	*SV	S	27	1.0E+00	-
DALAPON	SV	L	143	1.9E-01	9.0E-08
1,2-DIBROMO-3-CHLOROPROPANE	*SV	L	236	5.8E-01	1.5E-04
[8]2,4-EDICHLOROPHENOL	NV	S	163	9.0E-02	2.2E-06
2, 4-DIMETHYLPHENOL	SV	S	122	1.0E-01	9.5E-07
[8]GLYPHOSATE	NV	S	169	9.8E-08	4.1E-19
HEXACHLOROBUTADIENE	SV	S	261	2.2E-01	1.0E-02
HEXACHLOROETHANE	SV	S	237	1.0E-01	3.9E-03
ISOPHORONE	SV	L	138	4.4E-01	6.6E-06
[9]MERCURY	*SV	L	201	2.0E-03	-
METHYL MERCURY	SV	S	216	-	-
NITROBENZENE	*SV	L	123	2.5E-01	2.4E-05
NITROGLYCERIN	SV	L	227	2.0E-04	9.8E-08
4-NITROTOLUENE	SV	S	137	1.6E-01	5.6E-06
3-NITROTOLUENE	*SV	S	137	1.9E-01	1.2E-05
2-NITROTOLUENE	*SV	S	137	2.1E-01	2.4E-05
[10]PAHs (varies, see Table 2)	SV	S	---	---	---
PHENOL	SV	S	94	3.5E-01	3.4E-07
PROPICONAZOLE	SV	L	342	1.0E-06	4.1E-09
[11]TPH (middle distillates)	*SV	L	170	2 to 26	7.2E-04
1,2,4-TRICHLOROBENZENE	*SV	S	181	4.6E-01	1.4E-03

Table 3: CHEMICAL PARAMETER	[1]PhysicalState		Molecular Weight	[2]Vapor Pressure mm Hg (25C)	Henry's Law Constant (H) (atm-m3/mol)
[12]Metals (presumed stable but depends on target species) Dry and Sieve MI Samples for Laboratory Subsampling					
ANTIMONY	NV	S	122	-	-
ARSENIC	NV	S	75	-	-
BARIUM	NV	S	137	-	-
BERYLLIUM	NV	S	9	-	-
BORON	NV	S	14	-	-
CADMIUM	NV	S	112	-	-
CHROMIUM (Total)	NV	S	52	-	-
CHROMIUM III	NV	S	52	-	-
CHROMIUM VI	NV	S	52	-	-
COBALT	NV	S	59	-	-
COPPER	NV	S	64	-	-
LEAD	NV	S	207	-	-
MOLYBDENUM	NV	S	96	-	-
NICKEL	NV	S	59	-	-
SELENIUM	NV	S	81	-	-
SILVER	NV	S	108	-	-
THALLIUM	NV	S	204	-	-
VANADIUM	NV	S	51	-	-

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ZINC	NV	S	67	-	-

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Table 4: CHEMICAL PARAMETER	[1]Physical State		Molecular Weight	[2]Vapor Pressure mm Hg (25C)	Henry's Law Constant (H) (atm-m3/mol)
[5]Non-Volatile or Otherwise Stable Chemicals **Dry and Sieve** MI Samples for Laboratory Subsampling					
ALDRIN	NV	S	365	1.2E-04	4.4E-05
AMETRYN	NV	S	227	2.7E-06	2.4E-09
4,6- AMINO,2- DINITROTOLUENE	NV	S	197	-	1.6E-10
2,6-AMINO,4- DINITROTOLUENE	NV	S	197	-	1.6E-10
ATRAZINE	NV	S	216	2.9E-07	2.34E-09
BIS(2-ETHYLHEXYL)PHTHALATE	NV	S	391	1.4E-07	2.7E-07
CHLORDANE (TECHNICAL)	NV	S	410	9.9E-06	4.9E-05
CHLOROANILINE, p-	NV	S	128	7.1E-02	1.1E-06
CYCLO-1,3,5-TRIMETHYLENE-2,4,6-TRINITRAMINE (RDX)	NV	S	222	4.1E-09	6.3E-08
3,3-DICHLOROBENZIDINE	NV	S	253	2.6E-07	5.1E-11
DICHLORODIPHENYLDICHLOROETHANE (DDD)	NV	S	320	1.4E-06	6.6E-06
DICHLORODIPHENYLDICHLOROETHYLENE (DDE)	NV	S	318	6.0E-06	4.1E-05
DICHLORODIPHENYLTRICHLOROETHANE (DDT)	NV	S	354	1.6E-07	8.3E-06
DICHLOROPHENOXYACETIC ACID (2,4-D)	NV	S	221	8.3E-08	3.4E-08
DIELDRIN	NV	S	381	5.9E-06	1.0E-05
DIETHYLPHTHALATE	NV	S	222	2.1E-03	6.1E-07
DIMETHYLPHTHALATE	NV	S	194	3.1E-03	1.1E-07
1,3-DINITROBENZENE	NV	S	168	2.0E-04	4.9E-08
2,4-DINITROPHENOL	NV	S	184	3.9E-04	8.5E-08
2,4-DINITROTOLUENE (2,4-DNT)	NV	S	182	1.5E-04	5.4E-08
2,6-DINITROTOLUENE (2,6-DNT)	NV	S	182	5.7E-04	7.6E-07
DIOXINS (2,3,7,8 TCDD)	NV	S	356	1.5E-09	2.2E-06
DIURON	NV	S	233	6.9E-08	5.1E-10
ENDOSULFAN	NV	S	407	1.7E-07	6.6E-05
ENDRIN	NV	S	381	3.0E-06	6.3E-06
HEPTACHLOR	NV	S	373	4.0E-04	2.9E-04
HEPTACHLOR EPOXIDE	NV	S	389	2.0E-05	2.1E-05
HEXACHLOROBENZENE	NV	S	285	4.9E-05	1.7E-03
HEXACHLOROCYCLOHEXANE (gamma) LINDANE	NV	S	291	4.2E-05	5.1E-06
HEXAZINONE	NV	S	252	2.3E-07	2.2E-12
METHOXYCHLOR	NV	S	346	4.2E-05	2.0E-07
PENTACHLOROPHENOL	NV	S	266	1.1E-04	2.4E-08
PENTAERYTHRITOLTETRANITRATE (PETN)	NV	S	316	1.4E-07	1.2E-11
PERCHLORATE	NV	S	117	---	---
POLYCHLORINATED BIPHENYLS (PCBs, e.g. Aroclor 1254)	NV	S	326	7.7E-05	2.9E-04
SIMAZINE	NV	S	202	2.2E-08	9.5E-10
TERBACIL	NV	S	217	4.7E-07	1.2E-10
2,3,4,6- TETRACHLOROPHENOL	NV	S	232	4.2E-03	8.8E-06
TETRANITRO-1,3,5,7-TETRAAZOCYCLOOCTANE (HMX)	NV	S	296	2.4E-08	8.5E-10
TOXAPHENE	NV	S	414	6.7E-06	6.1E-06
TPH (residual fuels)	NV	L/S	200+	---	---
2,4,5- TRICHLOROPHENOL	NV	S	198	---	1.6E-06
2,4,6- TRICHLOROPHENOL	NV	S	198	---	2.7E-06
2,4,5-TRICHLOROPHENOXYACETIC ACID (2,4,5-T)	NV	S	255	<7.5E-5	4.6E-08
2,4,5-TRICHLOROPHENOXYPROPIONIC ACID (2,4,5-TP)	NV	S	270	9.7E-07	9.0E-09
TRIFLURALIN	NV	S	335	4.6E-05	1.0E-04
1,3,5- TRINITROBENZENE	NV	S	213	6.4E-06	3.2E-09
2,4,6-TRINITROPHENYLMETHYLNITRAMINE (TETRYL)	NV	S	287	1.2E-07	2.7E-09
2,4,6-TRINITROTOLUENE (TNT)	NV	S	227	8.0E-06	4.6E-07

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Reference: Appendix 1, Table H in HEER office Environmental Hazard Evaluation guidance (HDOH 2008).

1. Physical state of chemical at ambient conditions (V - volatile, SV - Semi-Volatile, NV - nonvolatile, S - solid, L - liquid, G - gas). *SV: Meets criteria for potential consideration as a "volatile" chemical and inclusion in soil gas investigations for evaluation of potential vapor intrusion hazards (H >0.00001 and MW <200, see Footnote 3).

2. Vapor Pressures from National Library of Medicine TOXNET or ChemID databases.

3. Volatile Chemicals defined by vapor pressure >1 mm Hg at 25C. Collect soil gas samples in additional to soil samples at sites with significant releases of volatile chemicals for evaluation of vapor intrusion hazards.

4. Semi-Volatile and Semi-Stable Chemicals defined as: VP 0.1 to <1.0 OR (H >0.00001 and MW <200) OR Liquid at 25C OR Low Persistence OR Otherwise Semi-Stable. See also Footnote 1 (*SV). TPHd overlaps volatile and semi-volatile categories.

5. Non-Volatile Stable Chemicals defined as: VP <0.1 AND H <0.00001 (or H >0.00001 but MW >200) AND Solid at 25C OR Otherwise Stable.

6. Check with lab to determine feasibility of wet sieving sample to remove <2mm particles prior to subsampling.

7. Soil or sediment samples that consist entirely of <2mm material do *not* require drying and sieving to address fundamental error concerns, although some degree of drying and sieving may be desirable by the laboratory for testing purposes.

8. Nonvolatile and published half-life less than thirty days or less. Refer to Table 9-A in Section 9 of the HEER TGM.

9. Mercury stability depends on targeted species. Assumed liquid and semi-stable as default.

10. PAHS - See Table 2.

11. TPH diesel may not be adequately extractable from soil or sediment when placed in methanol, subsamples should be collected and extracted at the laboratory (e.g., using methylene chloride).

12. The stability of a targeted metal depends in part on the species present and can be highly variable. Testing for a specific species of a metal may require alternate collection and preservation methods and should be evaluated on a site-by-site basis with respect to the site investigation objectives.

UNCONTROLLED

APPENDIX B:

Recommendations for MIS field preservation or laboratory subsampling of samples to be tested for PAHs.

Uncontrolled (watermark)

Table 1: [1]CHEMICAL PARAMETER	[2]PhysicalState		Molecular Weight	[3]Vapor Pressure mm Hg (25C)	Henry's Law Constant (H) (atm-m3/mol)
Semi-Volatile PAHs (H >0.00001 AND MW <200) [4]**Subsample** MI Bulk Sample at Laboratory Upon Receipt **Without Drying**					
ACENAPHTHENE	SV	S	154	2.2E-03	1.8E-04
ACENAPHTHYLENE	SV	S	152	6.7E-03	1.5E-03
ANTHRACENE	SV	S	178	6.6E-06	5.6E-05
FLUORENE	SV	S	166	3.2E-04	9.5E-05
METHYLNAPHTHALENE, 1-	SV	S	142	6.7E-02	5.1E-04
METHYLNAPHTHALENE, 2-	SV	S	142	5.5E-02	5.1E-04
[5]NAPHTHALENE	SV	S	128	8.5E-02	4.4E-04
PHENANTHRENE	SV	S	178	1.2E-04	3.9E-05
PYRENE	SV	S	202	4.5E-06	1.2E-05

Table 2: [1]CHEMICAL PARAMETER	[2]PhysicalState		Molecular Weight	[3]Vapor Pressure mm Hg (25C)	Henry's Law Constant (H) (atm-m3/mol)
Non-Volatile PAHs (H <0.00001 OR MW >200) [4]**Dry and Sieve** MI Samples for Laboratory Subsampling					
BENZO(a)ANTHRACENE	NV	S	228	5.0E-09	1.2E-05
BENZO(a)PYRENE	NV	S	252	5.5E-09	4.6E-07
BENZO(b)FLUORANTHENE	NV	S	252	5.0E-07	6.6E-07
BENZO(g,h,i)PERYLENE	NV	S	276	-	1.4E-07
BENZO(k)FLUORANTHENE	NV	S	252	9.7E-10	5.9E-07
CHRYSENE	NV	S	228	6.2E-09	5.1E-06
DIBENZO(a,h)ANTHTRACENE	NV	S	278	9.6E-10	1.2E-07
FLUORANTHENE	NV	S	202	9.2E-06	8.8E-06
INDENO(1,2,3-cd)PYRENE	NV	S	276	1.2E-10	3.4E-07

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Reference: Appendix 1, Table H in HEER office Environmental Hazard Evaluation guidance (HDOH 2008).

1. PAHS - Eighteen targeted PAHs listed in Section 9 of the HEER TGM (HDOH 2009). Pyrene considered semi-volatile due to Henry's Law Constant >0.00001 even though MW marginally exceeds 200.

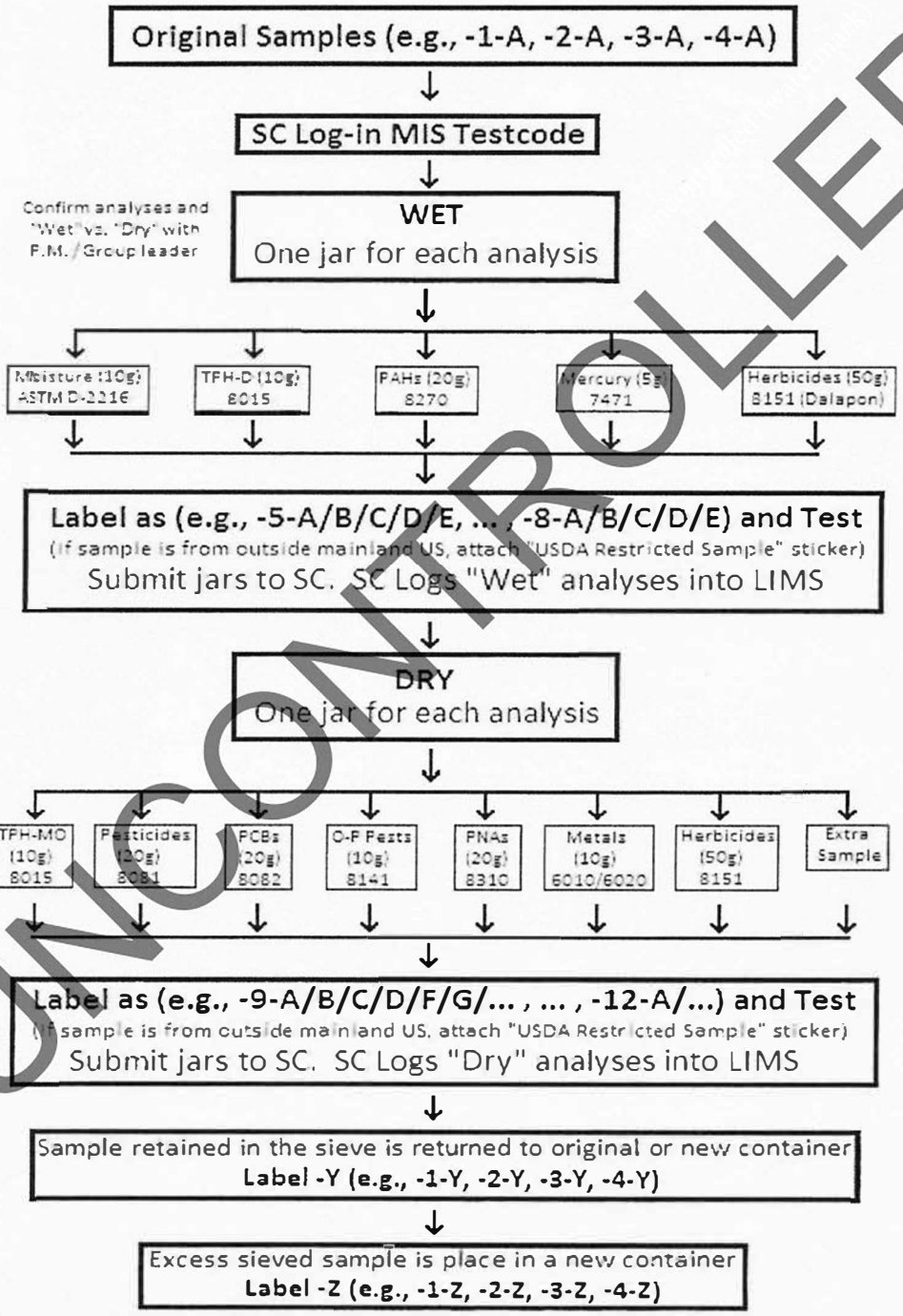
2. Physical state of chemical at ambient conditions (V - volatile, SV - Semi-Volatile, NV - nonvolatile, S - solid, L - liquid, G - gas).

3. Vapor Pressures from National Library of Medicine TOXNET or ChemID databases.

4. If target PAHs include both semi-volatile *and* non-volatile PAHs then subsample upon receipt at lab without drying and test for full suite of PAHs. If only non-volatile PAHs are targeted then sieve and dry samples before testing

5. Include naphthalene as a "volatile" chemical of concern in soil gas investigations at sites with significant releases of petroleum fuels (see TGM Section 9). Other petroleum-related SVOCs do not need to be included in soil gas investigations due to minimal presence in fuels and focus on TPH (and/or specific carbon ranges), BTEX and naphthalene as the main risk drivers for vapor intrusion hazards. Inclusion of additional SVOCs may be required for former manufactured gas plants, however, on a case-by-case basis.

MIS Flowchart



UNCONTROLLED

REGION 9
SAN FRANCISCO, CA 94105

November 28, 2023

Lindsey Dandridge-Perry
Kleinfelder
24411 Ridge Route Dr., Ste. 225
Laguna Hills, CA 92653

Re: Freedom of Information Act Request No. 2024-R09-02242
Final Response

Dear Lindsey Dandridge-Perry:

This letter concerns the above-referenced Freedom of Information Act (FOIA) request, received by the U.S. Environmental Protection Agency (EPA) on October 20, 2023, in which you requested the following records:

> I would like to review any environmental records (hazardous material or site mitigation) for 8996 Etiwanda Avenue or 8998 Etiwanda Avenue, Rancho Cucamonga, CA. (Date Range for Record Search: From 01/01/1900 To 10/19/2023).

In a Microsoft Teams call with Grace Elam and Claudia Guerra on November 8, 2023, you clarified that you are interested in EPA's environmental records related to the referenced address, with the exception of air permitting documents.

Final Response

EPA has concluded its search for records responsive to your request and is providing the requested records in full. Responsive, releasable records have been uploaded to EPA's FOIAXpress system found at: https://foiapublicaccessportal.epa.gov/app/Home.aspx. To access the records, reference your FOIA request as 2023-R09-02242.

If EPA is assessing fees related to the processing of your FOIA request, an invoice with billing and payment instructions will be attached.

Final Appeal Rights and Contact Information

This letter concludes our response to your request. You may appeal this determination by email at hq.foia@epa.gov, or by mail to the EPA's National FOIA Office, U.S. EPA, 1200 Pennsylvania Avenue,

N.W. (2310A), Washington, DC 20460 or through FOIAXpress if you are an account holder. If you are submitting your appeal by hand delivery, courier service, or overnight delivery, you must address your correspondence to 1200 Pennsylvania Avenue, N.W., WJC-N Building, Room 7309C, Washington, DC 20460.

Your appeal must be in writing, and it must be received no later than 90 calendar days from the date of this letter. The Agency will not consider appeals received after the 90-calendar-day limit. Appeals received after 5:00 p.m. EST will be considered received the next business day. The appeal letter should include the FOIA tracking number listed above. For quickest possible handling, the subject line of your email, the appeal letter, and its envelope, if applicable, should be marked "Freedom of Information Act Appeal."

If you need any further assistance or would like to discuss any aspect of your request, you may seek assistance from EPA's FOIA Public Liaison at hq.foia@epa.gov or call (202) 566-1667. You may also seek assistance from the Office of Government Information Services (OGIS). You may contact OGIS in any of the following ways: by mail, Office of Government Information Services, National Archives and Records Administration, 8601 Adelphi Road, College Park, MD 20740-6001; email: ogis@nara.gov; telephone: (202) 741-5770 or (877) 684-6448; or fax: (202) 741-5769. For all media inquiries, please contact press@epa.gov.

Please contact Grace Elam at elam.grace@epa.gov, or (415) 972-3574 should you have any questions concerning this matter.

Sincerely,

Claire Trombadore, Director
Land, Chemicals, and Redevelopment Division

GEOTECHNICAL INVESTIGATION
PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

NWC Etiwanda Avenue and Napa Street
Rancho Cucamonga, California
for
BTC III Rancho Cucamonga Logistics Center LP

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

October 30, 2020

BTC III Rancho Cucamonga Logistics Center LP
4675 MacArthur Court, Suite 625
Newport Beach, CA 92660

Attention: Mr. Christopher Sanford
Senior Vice President, Development

Project No.: 20G207-1

Subject: Geotechnical Investigation
Proposed Commercial/Industrial Development
NWC Etiwanda Avenue and Napa Street
Rancho Cucamonga, California

Gentlemen:

In accordance with your request, we have conducted a geotechnical investigation at the subject site. We are pleased to present this report summarizing the conclusions and recommendations developed from our investigation.

We sincerely appreciate the opportunity to be of service on this project. We look forward to providing additional consulting services during the course of the project. If we may be of further assistance in any manner, please contact our office.

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

Joseph Lozano Leon
Staff Engineer

Robert G. Trazo, GE 2655
Principal Engineer

REGISTERED PROFESSIONAL ENGINEER
ROBERT TRAZO
No. 2655
GEOTECHNICAL
STATE OF CALIFORNIA

Distribution: (1) Addressee

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1.0 EXECUTIVE SUMMARY

Presented below is a brief summary of the conclusions and recommendations of this investigation. Since this summary is not all inclusive, it should be read in complete context with the entire report.

Geotechnical Design Considerations

- Artificial fill soils were encountered most of the boring and trench locations, extending from the ground surface to depths of 1½ to 8½± feet.
- The fill soils and near-surface alluvial soils possess varying strengths and densities. In addition, some of the existing fill soils possess a potential for hydrocollapse. The existing fill soils are considered to represent undocumented fill. These soils, in their present condition, are not considered suitable for support of the foundation loads of the new structures.
- The fill soils encountered at Boring No. B-1 are compressible and possess relatively high organic contents, are severely corrosive to metallic improvements, and possess a sulfate concentration that constitutes a severe sulfate exposure (sulfate exposure class S2) to concrete. Based on these considerations, the existing fill soils in the area of Boring No. B-1 should not be reused as structural fill and should be removed from the site in their entirety.
- Remedial grading will be necessary to remove the existing fill soils and a portion of the near-surface alluvial soils and replace them as compacted structural fill. Generally, the existing fill soils may be reused as structural fill, with the exception of the fill soils encountered at Boring No. B-1.
- We recommend that additional exploration be performed in the area of Boring B-1 to determine the extent of the highly organic and severely corrosive soils.

Site Preparation Recommendations

- Initial site stripping should include removal of any surficial vegetation from the site. Stripping should include any weeds, grasses, and any organic top soils.
- Demolition of the existing structures, pavements and any associated improvements will be necessary to facilitate the construction of the proposed development. Debris resultant from demolition should be disposed of off-site. Alternatively, asphalt debris may be pulverized to a maximum 2-inch particle size, well mixed with the on-site soils, and incorporated into new structural fills. It may also be crushed and made into crushed miscellaneous base (CMB), if desired.
- We recommend that remedial grading be performed within the proposed building areas in order to remove all of the artificial fill soils and a portion of the near-surface alluvium. The soils present within the proposed building areas should be overexcavated to a depth of 5 feet below existing grade and to a depth of at least 3 feet below proposed building pad subgrade elevation. The proposed foundation influence zones should also be overexcavated to a depth of at least 2 feet below proposed foundation bearing grade. Additional overexcavation may be necessary in areas where loose or otherwise unsuitable soils are encountered at the base off the overexcavation.
- After overexcavation has been completed, the resulting subgrade soils should be evaluated by the geotechnical engineer to identify any additional soils that should be overexcavated. The resulting soils should be scarified and moisture conditioned to 0 to 4 percent above the optimum moisture content, to a depth of at least 12 inches. The overexcavation subgrade

soils should then be recompacted under the observation of the geotechnical engineer. The previously excavated soils may then be replaced as compacted structural fill.
- The new pavement and flatwork subgrade soils are recommended to be scarified to a depth of 12± inches, thoroughly moisture conditioned and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density.

Foundation Design Recommendations

- Conventional shallow foundations, supported in newly placed compacted fill.
- 2,500 lbs/ft^2 maximum allowable soil bearing pressure.
- Reinforcement consisting of at least two (2) No. 5 rebars (1 top and 1 bottom) in strip footings. Additional reinforcement may be necessary for structural considerations.

Building Floor Slab Design Recommendations

- Conventional Slabs-on-Grade: minimum 6-inch thickness.
- Modulus of Subgrade Reaction: k = 150 psi/in.
- Reinforcement is not expected to be necessary for geotechnical considerations.
- The actual thickness and reinforcement of the floor slab should be determined by the structural engineer.

Pavement Design Recommendations

ASPHALT PAVEMENTS (R=50)					
Materials	Thickness (inches)				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	3	4	5	5	7
Compacted Subgrade	12	12	12	12	12

PORTLAND CEMENT CONCRETE PAVEMENTS (R=50)				
Materials	Thickness (inches)			
	Autos and Light Truck Traffic (TI = 6.0)	Truck Traffic		
		TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	5½	6½	8
Compacted Subgrade (95% minimum compaction)	12	12	12	12

2.0 SCOPE OF SERVICES

The scope of services performed for this project was in accordance with our Proposal No. 20P325R, dated September 30, 2020. The scope of services included a visual site reconnaissance, subsurface exploration, field and laboratory testing, and geotechnical engineering analysis to provide criteria for preparing the design of the building foundations, building floor slabs, and parking lot pavements along with site preparation recommendations and construction considerations for the proposed development. The evaluation of the environmental aspects of this site was beyond the scope of services for this geotechnical investigation.

3.0 SITE AND PROJECT DESCRIPTION

3.1 Site Conditions

The subject site is located at the street address of 8996 Etiwanda Avenue in Rancho Cucamonga, California. The site is bounded to the north by a railroad easement, to the west by a commercial/industrial building and a vacant lot, to the south by a Southern California Edison electrical substation and an Inland Empire Utilities Agency, and to the east by Etiwanda Avenue. The general location of the site is illustrated on the Site Location Map, enclosed as Plate 1 in Appendix A of this report.

The site consists of an irregular-shaped parcel, 61.59± acres in size. The site is currently developed as a natural gas power plant, operated by NRG, which was decommissioned in 2018. The site is developed with numerous structures associated with the former power plant. Two (2) large cooling towers are present in the northern portion of the center of the site and four (4) cooling towers are located in the northwestern portion of the site. Two (2) multi-story generating plants and associated equipment (piping, above ground storage tanks (ASTs), and towers) are located in the central area of the site. A pump station is present in the east-central area of the site. One single-story office building is located in the south-central area of the site. Retention ponds are present in the northeastern and southeastern areas of the site. Numerous small support structures are located throughout the site. The ground surface cover surrounding the power plant and support structures generally consists of asphaltic concrete (AC) pavements. The existing pavements are generally in poor condition with moderate to severe cracking throughout. Landscaping consisting of turf grass and several large trees are present around the office building and pump station. Additionally, a 1 to 2± inch layer of open-graded gravel is located in the southeastern region of the site, between the retention pond and guard shack, and in the northwestern region, surrounding the cooling towers. A dense grove of evergreen trees is present in the northwestern area of the site. The ground surface cover throughout the remainder of the northwestern portion of the site and other unpaved areas of the site consists of exposed soil with sparse native grass and weed growth. An existing drainage course, draining from north to south, is present in the center of the site.

Detailed topographic information was not available at the time of this report. Based on elevations obtained from Google Earth, and visual observations made at the time of the subsurface investigation, a 260,000± ft² berm is present in the northwestern portion of the site. The existing berm is about 5 to 10± feet higher than the surrounding site topography. A 15,000± ft² pit is also present in the northwestern corner of the site. The existing pit appears to extend 2 to 7± feet below the adjacent site grades. The excavation within the pit appears to have been made to remove highly organic soils from the pit area. With the exception of the berm and pit, the site topography generally slopes downward to the south and toward the existing drainage course in the center of the site at a gradient of 1 to 2± percent.

3.2 Proposed Development

A conceptual site plan identified as Scheme 5, prepared by RGA, has been provided to our office by the client. Based on this plan, the subject site will be developed with a 1,024,565± ft^2 commercial/industrial building, identified as Building Area 1. Dock-high doors will be constructed in a cross-dock configuration on the north and south sides of the building. An alternative site plan identified as Scheme 6.8, prepared by RGA, has also been provided to our office. Based on this plan, the subject site will be developed with two (2) commercial/industrial buildings, identified as Building Areas 1 and 2. Building 1 will be located in the eastern region of the site and will be 688,111± ft² in size. Building 2 will be located in the western region of the site and will be 376,365± ft² in size. Both of these buildings will be constructed with dock-high doors along a portion of at least 1 building wall. The proposed buildings are expected to be surrounded by AC pavements in the parking and drive areas, Portland cement concrete (PCC) pavements in the loading dock areas, and concrete flatwork and landscaped planters throughout the site. Scheme 5 and Scheme 6.8 are indicated on the Boring and Trench Location Plans, included as Plate 2A and Plate 2B, respectively, in Appendix A of this report.

Detailed structural information has not been provided. It is assumed that the new buildings will be single-story structures of tilt-up concrete construction, typically supported on conventional shallow foundations with concrete slab-on-grade floors. Based on the assumed construction, maximum column and wall loads are expected to be on the order of 100 kips and 4 to 6 kips per linear foot, respectively.

No significant amounts of below-grade construction, such as basements or crawl spaces, are expected to be included in the proposed development. Based on the assumed topography, cuts and fills of up to 6± feet are expected to be necessary to achieve the proposed site grades.

3.3 Previous Study

Southern California Geotechnical, Inc. (SCG) previously performed a geotechnical investigation for a previously proposed commercial/industrial development at the subject site. The results of this investigation are presented in the report referenced as follows:

> Geotechnical Investigation, Proposed Commercial/Industrial Development, NWC Etiwanda Avenue and Napa Street, Rancho Cucamonga, California, prepared by SCG, prepared for Bridge Development Partners, SCG Project No. 19G174-1, dated August 27, 2019.

As part of this investigation sixteen (16) borings (identified as Boring Nos. B-1 through B-16) were advanced to depths of 15 to 30± feet below the existing site grades. Additionally, four (4) trenches (identified as Trench Nos. T-1 through T-4) were excavated to depths of 11 to 14± feet below the existing site grades. The approximate locations of the previous borings and trenches are indicated on the Boring and Trench Location Plans, included as Plate 2A and Plate 2B in Appendix A of this report. AC pavements were encountered at the ground surface at most boring locations, occasionally underlain by aggregate base. The pavements generally consisted of 3 to 5± inches of AC, underlain by 0 to 5± inches of aggregate base. The remaining boring locations encountered a surficial layer of open-graded gravel approximately 1 to 2 inches thick. Artificial fill soils were encountered at the ground surface at most of the boring and trench locations,

extending to depths of 2 to 8½± feet. The fill soils generally consisted of loose to dense silty fine sands with varying medium to coarse sand and fine to coarse gravel content. Native alluvial soils were encountered at the ground surface and beneath the fill soils at all of the boring and trench locations, extending to at least the maximum depth explored of 30± feet. The alluvium generally consisted of loose to medium dense fine sandy silts, silty fine sands, and loose to very dense fine to coarse sands. Free water was not encountered during the drilling of any of the borings or excavation of any of the trenches. Based on the lack of water within the borings, the groundwater was considered to have existed at a depth in excess of 30± feet at the time of the previous subsurface exploration.

Based upon the identified subsurface conditions, remedial grading was recommended to be performed within the previously proposed building pad area in order to remove the existing undocumented fill soils. The previously proposed building area was recommended to be overexcavated to a depth of at least 5 feet below existing grade and to a depth of at least 3 feet below proposed pad grade. It was also recommended to extend the overexcavation to a depth of at least 2 feet below foundation bearing grade within the foundation influence zones. The foundations were recommended to be designed for a maximum allowable soil bearing pressure of 2,500 lbs/ft^2. Excerpts from the previous study, including the boring and trench logs, along with the results of laboratory testing, are included in Appendix F of this report.

4.0 SUBSURFACE EXPLORATION

4.1 Scope of Exploration/Sampling Methods

The subsurface exploration conducted for this project consisted of eight (8) borings (identified as Boring Nos. B-17 through B-24), advanced to a depth of 10 to 30± feet below the existing site grades. All of the borings were logged during drilling by a member of our staff.

The borings were advanced with hollow-stem augers, by a conventional truck-mounted drilling rig. Representative bulk and relatively undisturbed soil samples were taken during drilling. Relatively undisturbed soil samples were taken with a split barrel "California Sampler" containing a series of one inch long, 2.416± inch diameter brass rings. This sampling method is described in ASTM Test Method D-3550. In-situ samples were also taken using a 1.4± inch inside diameter split spoon sampler, in general accordance with ASTM D-1586. Both of these samplers are driven into the ground with successive blows of a 140-pound weight falling 30 inches. The blow counts obtained during driving are recorded for further analysis. Bulk samples were collected in plastic bags to retain their original moisture content. The relatively undisturbed ring samples were placed in molded plastic sleeves that were then sealed and transported to our laboratory.

The approximate locations of the borings from this investigation are indicated on the Boring and Trench Location Plans, included as Plate 2A and Plate 2B in Appendix A of this report. The Boring Logs, which illustrate the conditions encountered at the boring locations, as well as the results of some of the laboratory testing, are included in Appendix B.

4.2 Geotechnical Conditions

Pavements

AC pavements were encountered at the ground surface at Boring Nos. 18, B-20 and B-21. The pavements at these locations consist of 2½ to 6± inches of AC, underlain by 0 to 6± inches of aggregate base. Boring Nos. B-23 and B-24 were drilled through a surficial layer of 2± inches of open-graded gravel.

Artificial Fill

Artificial fill soils were encountered at the ground surface at Boring Nos. B-19 and B-22, and beneath the existing pavements at Boring Nos. B-20, B-21, B-23 and B-24, extending to depths of 1½ to 5½± feet below the existing site grades. The fill soils generally consist of medium dense to dense fine sands with little silt, and silty fine sands with varying medium to coarse sand and fine gravel content. The fill soils possess a disturbed mottled appearance with occasional horizontal laminations and minor debris, such as AC and concrete fragments, resulting in their classification as artificial fill.

Alluvium

Native alluvial soils were encountered beneath the fill soils and/or the existing pavements, and at the ground surface at all of the boring locations, extending to at least the maximum depth explored of 30± feet below the existing site grades. The near-surface alluvium generally consists of loose to medium dense sands, silty sands and sandy silts with varying clay and fine gravel content, extending to depths of 17 to 27± feet, with the exception of Boring No. B-22. At greater depths and extending to the maximum depth explore of 30± feet, the alluvium generally consists of medium dense to dense sands and silty sands with varying fine gravel content. Boring No.B-22 encountered soil strata generally consisting of medium dense to dense sands and silty sands with varying fine gravel content at depths of 5½ to 25± feet. Boring No. B-19 encountered a soil stratum consisting of very stiff clayey silt at depths of 17 to 22± feet.

Groundwater

Free water was not encountered during the drilling of any of the borings. Based on the lack of any water within the borings, and the moisture contents of the recovered soil samples, the static groundwater is considered to have existed at a depth in excess of 30± feet at the time of the subsurface exploration.

As part of our research, we reviewed available groundwater data in the vicinity of the subject site. The primary reference used to determine the groundwater depths in this area is the California Department of Water Resources website, http://www.water.ca.gov/geotracker/. The nearest monitoring well is located approximately 2± miles east of the site. Water level readings within these monitoring wells indicate high groundwater levels of 467± feet below site grades (April 2017).

5.0 LABORATORY TESTING

The soil samples recovered from the subsurface exploration were returned to our laboratory for further testing to determine selected physical and engineering properties of the soils. The tests are briefly discussed below. It should be noted that the test results are specific to the actual samples tested, and variations could be expected at other locations and depths. Test results from the previous study are denoted using the project number (19G174-1). The test results from the previous study are included in Appendix F.

Classification

All recovered soil samples were classified using the Unified Soil Classification System (USCS), in accordance with ASTM D-2488. Field identifications were then supplemented with additional visual classifications and/or by laboratory testing. The USCS classifications are shown on the Boring Logs and are periodically referenced throughout this report.

Density and Moisture Content

The density has been determined for selected relatively undisturbed ring samples. These densities were determined in general accordance with the method presented in ASTM D-2937. The results are recorded as dry unit weight in pounds per cubic foot. The moisture contents are determined in accordance with ASTM D-2216, and are expressed as a percentage of the dry weight. These test results are presented on the Boring Logs. The results of additional testing performed during the previous study are included in Appendix F of this report.

Consolidation

Selected soil samples have been tested to determine their consolidation potential, in accordance with ASTM D-2435. The testing apparatus is designed to accept either natural or remolded samples in a one-inch high ring, approximately 2.416 inches in diameter. Each sample is then loaded incrementally in a geometric progression and the resulting deflection is recorded at selected time intervals. Porous stones are in contact with the top and bottom of the sample to permit the addition or release of pore water. The samples are typically inundated with water at an intermediate load to determine their potential for collapse or heave. The results of the consolidation testing are plotted on Plates C-1 through C-8 in Appendix C of this report. Additional consolidation test results performed during the previous study are included in Appendix F.

Maximum Dry Density and Optimum Moisture Content

A representative bulk sample has been tested for its maximum dry density and optimum moisture content. The results have been obtained using the Modified Proctor procedure, per ASTM D-1557 and are presented on Plate C-9 in Appendix C of this report. This test is generally used to compare the in-situ densities of undisturbed field samples, and for later compaction testing. Additional testing of other soil types or soil mixes may be necessary at a later date. The results of additional testing performed during the previous study are included in Appendix F of this report.

Expansion Index (EI)

The expansion potential of the on-site soils was determined in general accordance with ASTM D-4829. The testing apparatus is designed to accept a 4-inch diameter, 1-in high, remolded sample. The sample is initially remolded to 50± 1 percent saturation and then loaded with a surcharge equivalent to 144 pounds per square foot. The sample is then inundated with water, and allowed to swell against the surcharge. The resultant swell or consolidation is recorded after a 24-hour period. The result of the EI testing is as follows:

Sample Identification	Expansion Index	Expansive Potential
B-15 @ 0 to 5 feet (19G174-1)	15	Very Low

Soluble Sulfates

Representative samples of the near-surface soils have been submitted to a subcontracted analytical laboratory for determination of soluble sulfate content. Soluble sulfates are naturally present in soils, and if the concentration is high enough, can result in degradation of concrete which comes into contact with these soils. The results of the soluble sulfate testing are presented below, and are discussed further in a subsequent section of this report.

Sample Identification	Soluble Sulfates (%)	ACI Classification
B-1 @ 0 to 5 feet (19G174-1)	1.230	Severe (S2)
B-12 @ 0 to 5 feet (19G174-1)	0.034	Not Applicable (S0)
B-15 @ 0 to 5 feet (19G174-1)	0.006	Not Applicable (S0)
B-17 @ 1 to 5 feet	0.001	Not Applicable (S0)
B-22 @ 1 to 5 feet	0.003	Not Applicable (S0)

Corrosivity Testing

Representative samples of the near-surface soils have been submitted to a subcontracted corrosion engineering laboratory to identify potentially corrosive characteristics with respect to common construction materials. The corrosivity testing included a determination of the electrical resistivity, pH, and chloride and nitrate concentrations of the soils, as well as other tests. The results of some of these tests are presented below.

Sample Identification	Saturated Resistivity (ohm-cm)	pH	Chlorides (mg/kg)	Nitrates (mg/kg)
B-1 @ 0 to 5 feet (19G174-1)	800	5.7	75	432
B-12 @ 0 to 5 feet (19G174-1)	15,200	7.7	<0.1	7.1
B-15 @ 0 to 5 feet (19G174-1)	4,400	6.8	20	38
B-17 @ 1 to 5 feet	18,800	7.9	4.9	10
B-22 @ 1 to 5 feet	7,600	7.2	4.9	16

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our review, field exploration, laboratory testing and geotechnical analysis, the proposed development is considered feasible from a geotechnical standpoint. The recommendations contained in this report should be taken into the design, construction, and grading considerations.

The recommendations are contingent upon all grading and foundation construction activities being monitored by the geotechnical engineer of record. The recommendations are provided with the assumption that an adequate program of client consultation, construction monitoring, and testing will be performed during the final design and construction phases to verify compliance with these recommendations. Maintaining SCG as the geotechnical consultant from the beginning to the end of the project will provide continuity of services. The geotechnical engineering firm providing testing and observation services shall assume the responsibility of Geotechnical Engineer of Record.

The Grading Guide Specifications, included as Appendix D, should be considered part of this report, and should be incorporated into the project specifications. The contractor and/or owner of the development should bring to the attention of the geotechnical engineer any conditions that differ from those stated in this report, or which may be detrimental for the development.

6.1 Seismic Design Considerations

The subject site is located in an area which is subject to strong ground motions due to earthquakes. The performance of a site specific seismic hazards analysis was beyond the scope of this investigation. However, numerous faults capable of producing significant ground motions are located near the subject site. Due to economic considerations, it is not generally considered reasonable to design a structure that is not susceptible to earthquake damage. Therefore, significant damage to structures may be unavoidable during large earthquakes. The proposed structures should, however, be designed to resist structural collapse and thereby provide reasonable protection from serious injury, catastrophic property damage and loss of life.

Faulting and Seismicity

Research of available maps indicates that the subject site is not located within an Alquist-Priolo Earthquake Fault Zone. Furthermore, SCG did not identify any evidence of faulting during the previous and current geotechnical investigations. Therefore, the possibility of significant fault rupture on the site is considered to be low.

The potential for other geologic hazards such as seismically induced settlement, lateral spreading, tsunamis, inundation, seiches, flooding, and subsidence affecting the site is considered low.

Seismic Design Parameters

The 2019 California Building Code (CBC) provides procedures for earthquake resistant structural design that include considerations for on-site soil conditions, occupancy, and the configuration of

the structure including the structural system and height. The seismic design parameters presented below are based on the soil profile and the proximity of known faults with respect to the subject site.

Based on standards in place at the time of this report, the proposed development is expected to be designed in accordance with the requirements of the 2019 edition of the California Building Code (CBC), which was adopted on January 1, 2020.

The 2019 CBC Seismic Design Parameters have been generated using the SEAOC/OSHPD Seismic Design Maps Tool, a web-based software application available at the website www.seismicmaps.org. This software application calculates seismic design parameters in accordance with several building code reference documents, including ASCE 7-16, upon which the 2019 CBC is based. The application utilizes a database of risk-targeted maximum considered earthquake (MCE_R) site accelerations at 0.01-degree intervals for each of the code documents. The table below was created using data obtained from the application. The output generated from this program is included as Plate E-1 in Appendix E of this report.

The 2019 CBC requires that a site-specific ground motion study be performed in accordance with Section 11.4.8 of ASCE 7-16 for Site Class D sites with a mapped S_1 value greater than 0.2. However, Section 11.4.8 of ASCE 7-16 also indicates an exception to the requirement for a site-specific ground motion hazard analysis for certain structures on Site Class D sites. The commentary for Section 11 of ASCE 7-16 (Page 534 of Section C11 of ASCE 7-16) indicates that "In general, this exception effectively limits the requirements for site-specific hazard analysis to very tall and or flexible structures at Site Class D sites." Based on our understanding of the proposed development, the seismic design parameters presented below were calculated assuming that the exception in Section 11.4.8 applies to the proposed structures at this site. However, the structural engineer should verify that this exception is applicable to the proposed structures. Based on the exception, the spectral response accelerations presented below were calculated using the site coefficients (F_a and F_v) from Tables 1613.2.3(1) and 1613.2.3(2) presented in Section 16.4.4 of the 2019 CBC.

2019 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped Spectral Acceleration at 0.2 sec Period	S_S	1.762
Mapped Spectral Acceleration at 1.0 sec Period	S_1	0.655
Site Class	---	D
Site Modified Spectral Acceleration at 0.2 sec Period	S_{MS}	1.762
Site Modified Spectral Acceleration at 1.0 sec Period	S_{M1}	1.114
Design Spectral Acceleration at 0.2 sec Period	S_{DS}	1.175
Design Spectral Acceleration at 1.0 sec Period	S_{D1}	0.742

It should be noted that the site coefficient F_v and the parameters S_{M1} and S_{D1} were not included in the SEAOC/OSHPD Seismic Design Maps Tool output for the 2019 CBC. We calculated these parameters-based on Table 1613.2.3(2) in Section 16.4.4 of the 2019 CBC using the value of S_1

obtained from the Seismic Design Maps Tool, assuming that a site-specific ground motion hazards analysis is not required for the proposed buildings at this site.

Liquefaction

Liquefaction is the loss of strength in generally cohesionless, saturated soils when the pore-water pressure induced in the soil by a seismic event becomes equal to or exceeds the overburden pressure. The primary factors which influence the potential for liquefaction include groundwater table elevation, soil type and grain size characteristics, relative density of the soil, initial confining pressure, and intensity and duration of ground shaking. The depth within which the occurrence of liquefaction may impact surface improvements is generally identified as the upper 50 feet below the existing ground surface. Liquefaction potential is greater in saturated, loose, poorly graded fine sands with a mean (d_{50}) grain size in the range of 0.075 to 0.2 mm (Seed and Idriss, 1971). Clayey (cohesive) soils or soils which possess clay particles (d<0.005mm) in excess of 20 percent (Seed and Idriss, 1982) are generally not considered to be susceptible to liquefaction, nor are those soils which are above the historic static groundwater table.

The California Geological Survey (CGS) has not yet conducted detailed seismic hazards mapping in the area of the subject site. The general liquefaction susceptibility of the site was determined by research of the San Bernardino County Land Use Plan, General Plan, Geologic Hazard Overlays. Map FH28 for the Guasti 7.5-Minute Quadrangle indicates that the subject site is not located within an area of liquefaction susceptibility. Based on the mapping performed by the county of San Bernardino and the subsurface conditions encountered at the boring locations, liquefaction is not considered to be a design concern for this project.

6.2 Geotechnical Design Considerations

General

The near-surface soils encountered at the boring and trench locations from the previous and current studies consist of artificial fill soils and native alluvium. The artificial fill soils, where encountered, extend to depths of 1½ to 8½± feet below the existing site grades. The fill soils possess variable strengths and densities and based on the results of consolidation/collapse testing, some of the fill materials possess a significant potential for hydrocollapse when inundated with water. Based on these considerations, and a lack of documentation of the placement and compaction of these soils, the existing fill materials are considered to consist of undocumented fill, unsuitable for the support of the proposed structures. The near-surface alluvium also possesses variable strengths, densities, and composition. Additionally, it is anticipated that demolition of the existing structures and associated improvements will cause disturbance of the upper 3 to 5± feet of soil. Therefore, remedial grading is considered warranted within the proposed building areas in order to remove all of the undocumented fill soils in their entirety, the upper portion of the near-surface native alluvial soils, and any soils disturbed during the demolition process, and replace these materials as compacted structural fill soils.

In general, the on-site soils may be reused as structural fill to support the foundations and floor slabs of the new buildings as well as other site improvements including new pavements. However, the fill soils encountered at Boring No. B-1 possess relatively high organic contents of 17.0 to

23.6 percent, are severely corrosive to metallic improvements, and possess a concentration of soluble sulfates that constitutes a severe sulfate exposure to concrete (Sulfate Class S2), as discussed below. The fill soils at Boring No. B-1 should not be reused in any improvement areas including new building and pavement areas. These materials should be disposed of off-site. Alternatively, it may be feasible to reuse these materials in landscaped planters, but the properties of these soils should be evaluated by the landscape architect or another qualified person as the evaluation of these soils for use in landscape areas is outside of our purview as the geotechnical engineer.

Based on our review of the previous study, we understand that the existing organic soils may have been placed as a part of an agricultural research project performed by a local university. The extent of these organic and corrosive soils around Boring No. B-1 is not presently known to SCG. We understand that some of these soils may also be present in the area planted with evergreen trees in the northwestern portion of the site. However, these soils were not observed in any appreciable quantities in the samples taken at Boring Nos. B-2, B-3, B-4, B-5, B-6, B-17, B-18, B-19 or B-24, nor were they observed during the excavation and logging of Trench Nos T-1 and T-2. We recommend that additional exploration be performed prior to rough grading in order to determine the actual extent of these organic soils which are considered unsuitable to support the new structures and site improvements.

Settlement

The recommended remedial grading will remove the existing undocumented fill soils, as well as the potentially compressible/collapsible near-surface native alluvium, and replace these materials as compacted structural fill. The native soils that will remain in place below the recommended depth of overexcavation will not be subject to significant stress increases from the foundations of the new structures. Therefore, following completion of the recommended grading, post-construction settlements are expected to be within tolerable limits.

Expansion

The near-surface soils encountered at the boring locations consist of silty sands, sandy silts and sands with varying clay content. The results of expansion index testing performed on soils from the upper 5± feet at Boring No. B-15 indicate that these soils possess a very low expansion potential (EI = 15). These materials have been visually classified as very low to non-expansive. Therefore, no design considerations related to expansive soils are considered warranted for this site.

Soluble Sulfates

The results of soluble sulfate testing indicate that the organic fill soils present in the location of Boring No. B-1 possess a soluble sulfate concentration that corresponds with Sulfate Exposure Class S2 (or a severe sulfate exposure) to concrete with respect to the American Concrete Institute (ACI) Publication 318-14 Building Code Requirements for Structural Concrete and Commentary, Section 4.3. However, the grading recommendations provided in this report recommend the removal of any of the existing fill soils resembling those encountered at Boring No. B-1. These soils should not be reused in new building areas, nor in any new improvement areas.

The results of the soluble sulfate testing on samples from other boring locations indicate that the selected samples of the on-site soils to correspond to Class S0 with respect to ACI Publication 318-14, Section 4.3. Therefore, specialized concrete mix designs are not considered to be necessary, with regard to sulfate protection purposes, provided that no soils resembling those encountered in the upper 4½ feet at Boring No. B-1 are reused in the proposed building and improvement areas. We recommend that additional soluble sulfate testing be conducted at the completion of rough grading to verify the soluble sulfate concentrations of the soils which are present at pad grade within the building areas.

Corrosion Potential

The results of the electrical resistivity and pH testing indicate that the bulk sample of soils taken from Boring No. B-1 possesses a relatively low resistivity value of 800 ohm-cm and a pH value of 5.7. These test results have been evaluated in accordance with guidelines published by the Ductile Iron Pipe Research Association (DIPRA). The DIPRA guidelines consist of a point system by which characteristics of the soils are used to quantify the corrosivity characteristics of the site. Resistivity and pH are two of the five factors evaluated in the DIPRA procedure. Redox potential, relative soil moisture content and sulfides are also included. Although sulfide testing was not part of the scope of services for this project, we have evaluated the corrosivity characteristics of the on-site soils using resistivity, pH and moisture content. Based on these factors, and utilizing the DIPRA procedure, the existing fill soils at Boring No. B-1 are considered to be severely corrosive to ductile iron pipe. However, based on their organic content and corrosion potential, we recommend that the fill soils represented by those encountered at Boring No. B-1 be excluded from any fill soils at this site.

The results of the electrical resistivity and pH testing performed on the near surface soils taken from Boring Nos. B-12, B-15, B-17 and B-22 indicate that the tested soils possess saturated resistivity values ranging from 4,400 and 18,800 ohm-cm, and pH values of 6.8 and 7.9. These test results have also been evaluated in accordance with the DIPRA guidelines. Based on these factors, and utilizing the DIPRA procedure, the on-site soils are generally considered to be noncorrosive to ductile iron pipe, with the exception of those encountered at Boring No. B-1, as discussed above. However, as noted above, SCG does not practice in the field of corrosion engineering, and therefore, the client may also wish to contact a corrosion engineer to provide a more thorough evaluation.

Relatively low concentration (ranging from 0.1 to 75 mg/kg) of chlorides was detected in the samples submitted for corrosivity testing. In general, soils possessing chloride concentrations in excess of 500 parts per million (ppm) are considered to be corrosive with respect to steel reinforcement within reinforced concrete. Based on the lack of any significant chlorides in the tested samples, the site is considered to have a C1 chloride exposure in accordance with the American Concrete Institute (ACI) Publication 318 Building Code Requirements for Structural Concrete and Commentary. Therefore, a specialized concrete mix design for reinforced concrete for protection against chloride exposure is not considered warranted.

Nitrates

Nitrates present in soil can be corrosive to copper tubing at concentrations greater than 50 mg/kg. The existing fill soils encountered at Boring No. B-1 also possess a nitrate concentration of 432 mg/kg. Based on this test result, the existing fill soils at Boring No. B-1 are considered

to be corrosive to copper pipe. Since SCG does not practice in the area of corrosion engineering, we recommend that the client contact a corrosion engineer to provide recommendations for the protection of copper tubing/pipe in contact with the on-site soils. However, based on their organic content and corrosion potential, we recommend that the fill soils represented by those encountered at Boring No. B-1 be excluded from any fill soils at this site. The remaining tested samples of the near-surface soils are considered to be noncorrosive to copper tubing.

Shrinkage/Subsidence

Based on the results of the laboratory testing, removal and recompaction of the loose to medium dense near-surface fill and alluvial soils, extending to depths of 5± feet, is estimated to result in an average shrinkage of 6 to 15 percent. However, the estimated shrinkage of the individual soil layers at the site is highly variable, locally ranging from a minimum shrinkage value of 0 percent to a maximum shrinkage of 23 percent at varying sample depths and locations. It should be noted that this shrinkage estimate is based on the results of dry density testing performed on small-diameter samples of the existing soils taken at the boring locations. If a more accurate and precise shrinkage estimate is desired, SCG can perform a shrinkage study involving several excavated test-pits where in-place densities are determined using in-situ testing methods instead of laboratory density testing on small-diameter samples. Please contact SCG for details and a cost estimate regarding a shrinkage study, if desired.

Minor ground subsidence is expected to occur in the soils below the zone of removal, due to settlement and machinery working. The subsidence is estimated to be 0.1 feet.

These estimates are based on previous experience and the subsurface conditions encountered at the boring locations. The actual amount of subsidence is expected to be variable and will be dependent on the type of machinery used, repetitions of use, and dynamic effects, all of which are difficult to assess precisely.

Grading and Foundation Plan Review

No grading or foundation plans were available at the time of this report. It is therefore recommended that we be provided with copies of the preliminary plans, when they become available, for review with regard to the conclusions, recommendations, and assumptions contained within this report.

6.3 Site Grading Recommendations

The grading recommendations presented below are based on the subsurface conditions encountered at the boring locations and our understanding of the proposed development. We recommend that all grading activities be completed in accordance with the Grading Guide Specifications included as Appendix D of this report, unless superseded by site-specific recommendations presented below.

Site Stripping and Demolition

Demolition of the existing structures, pavements and any associated improvements will be necessary to facilitate the construction of the proposed development. Demolition of the existing structures should include all foundations, floor slabs, and any associated utilities. Any septic systems encountered during demolition and/or grading (if present) should be removed in their entirety. Any associated leach fields or other existing underground improvements should also be removed in their entirety. Debris resultant from demolition should be disposed of off-site in accordance with local regulations. Alternatively, concrete and asphalt debris may be pulverized to a maximum 2-inch particle size, well mixed with the on-site soils, and incorporated into new structural fills or it may be crushed and made into crushed miscellaneous base (CMB), if desired.

Initial site stripping should also include removal of any surficial vegetation from the unpaved areas of the site. This should include any weeds, grasses, shrubs, and trees. Root systems associated with the trees should be removed in their entirety, and the resultant excavations should be backfilled with compacted structural fill soils. Stripping should also include the organic soils present in the area of Boring No. B-1. The soils encountered at this boring location possess organic contents of 17.0 to 23.6 percent, and are compressible, corrosive and possess sulfate concentrations that constitute a severe sulfate exposure to concrete. These highly organic soils should be removed from the site in their entirety. Alternatively, it may be feasible to reuse these organic soils in landscape areas, provided that their properties are evaluated by the landscape architect or other qualified person. However, these materials should not be used in any areas supporting any structure or site improvement. The actual extent of site stripping should be determined in the field by the geotechnical engineer, based on the organic content and stability of the materials encountered.

Treatment of Existing Soils: Building Pads

Remedial grading should be performed within the proposed building pad areas in order to remove any soils disturbed during demolition, the existing undocumented fill soils, and the upper portion of the near-surface native alluvium. Based on conditions encountered at the boring and trench locations, we recommend that the existing soils within the proposed building areas be overexcavated to a depth of at least 5 feet below existing grade and to a depth of at least 3 feet below proposed building pad subgrade elevations, whichever is greater. The depth of the overexcavation should also extend to a depth sufficient to remove all undocumented fill soils. The undocumented fills extend to depths of 1½ to 8½± feet at most of the boring and trench locations. Additional overexcavation should be performed within the influence zones of the new foundations, to provide for a new layer of compacted structural fill extending to a depth of at least 2 feet below proposed bearing grades.

The overexcavation areas should extend at least 5 feet beyond the building and foundation perimeters, and to an extent equal to the depth of fill placed below the foundation bearing grade, whichever is greater. If the proposed structure incorporates any exterior columns (such as for a canopy or overhang) the area of overexcavation should also encompass these areas.

Following completion of the overexcavation, the subgrade soils within the overexcavation areas should be evaluated by the geotechnical engineer to verify their suitability to serve as the structural fill subgrade, as well as to support the foundation loads of the new structures. This evaluation should include proofrolling and probing to identify any soft, loose or otherwise unstable

soils that must be removed. Some localized areas of deeper excavation may be required if additional fill materials or loose, porous, or low-density native soils are encountered at the base of the overexcavation. It should be noted that some of the borings, including Boring Nos. B-4, B-5, B-6, B-12, B-13, B-16, B-18 and B-21 encountered loose soils extending to depths of 7½ to 12± feet, and Boring No. B-11 encountered loose soils to a depth of 17± feet.

After a suitable overexcavation subgrade has been achieved, the exposed soils should be scarified to a depth of at least 12 inches and moisture treated to 0 to 4 percent above optimum moisture content. The subgrade soils should then be recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. The previously excavated soils may then be replaced as compacted structural fill.

Treatment of Existing Soils: Retaining Walls and Site Walls

The existing soils within the areas of any proposed retaining walls and site walls should be overexcavated to a depth of 2 feet below foundation bearing grade and replaced as compacted structural fill as discussed above for the proposed building pad. Any undocumented fill soils or disturbed native alluvium within any of these foundation areas should be removed in their entirety. The overexcavation areas should extend at least 5 feet beyond the foundation perimeters, and to an extent equal to the depth of fill below the new foundations. Any erection pads for tilt-up concrete walls are considered to be part of the foundation system. Therefore, these overexcavation recommendations are applicable to erection pads. The overexcavation subgrade soils should be evaluated by the geotechnical engineer prior to scarifying, moisture conditioning to within 0 to 4 percent above the optimum moisture content, and recompacting the upper 12 inches of exposed subgrade soils. The previously excavated soils may then be replaced as compacted structural fill.

If the full lateral recommended remedial grading cannot be completed for the proposed retaining walls and site walls located along property lines, the foundations for those walls should be designed using a reduced allowable bearing pressure. Furthermore, the contractor should take necessary precautions to protect the adjacent improvements during rough grading. Specialized grading techniques, such as A-B-C slot cuts, will likely be required during remedial grading. The geotechnical engineer of record should be contacted if additional recommendations, such as shoring design recommendations, are required during grading.

Treatment of Existing Soils: Flatwork, Parking and Drive Areas

Based on economic considerations, overexcavation of the existing near-surface existing soils in the new flatwork, parking and drive areas is not considered warranted, with the exception of areas where lower strength or unstable soils are identified by the geotechnical engineer during grading. The existing fill soils encountered at Boring No. B-1 are compressible and corrosive. These soils should be removed from the proposed pavement areas in their entirety. These organic soils should not be reused as structural fill in any pavement areas. Subgrade preparation in the new flatwork, parking and drive areas should initially consist of removal of all soils disturbed during stripping and demolition operations

The geotechnical engineer should then evaluate the subgrade to identify any areas of additional unsuitable soils. Any such materials should be removed to a level of firm and unyielding soil. The exposed subgrade soils should then be scarified to a depth of 12± inches, moisture conditioned

to 0 to 4 percent above the optimum moisture content, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. Based on the presence of variable strength surficial soils throughout the site, it is expected that some isolated areas of additional overexcavation may be required to remove zones of lower strength, unsuitable soils.

The grading recommendations presented above for the proposed flatwork, parking and drive areas assume that the owner and/or developer can tolerate minor amounts of settlement within the proposed flatwork, parking and drive areas. The grading recommendations presented above do not completely mitigate the extent of existing fill soils that may be present in the flatwork, parking and drive areas. As such, some settlement and associated pavement distress could occur. Typically, repair of such distressed areas involves significantly lower costs than completely mitigating these soils at the time of construction. If the owner cannot tolerate the risk of such settlements, the flatwork, parking and drive areas should be overexcavated to a depth of 2 feet below proposed pavement subgrade elevation, with the resulting soils replaced as compacted structural fill.

Fill Placement

- Fill soils should be placed in thin (6± inches), near-horizontal lifts, moisture conditioned to 0 to 4 percent above the optimum moisture content, and compacted.
- On-site soils may be used for fill provided they are cleaned of any debris to the satisfaction of the geotechnical engineer.
- All grading and fill placement activities should be completed in accordance with the requirements of the 2019 CBC and the grading code of the city of Rancho Cucamonga.
- All fill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Fill soils should be well mixed.
- Compaction tests should be performed periodically by the geotechnical engineer as random verification of compaction and moisture content. These tests are intended to aid the contractor. Since the tests are taken at discrete locations and depths, they may not be indicative of the entire fill and therefore should not relieve the contractor of his responsibility to meet the job specifications.

Imported Structural Fill

All imported structural fill should consist of very low expansive (EI < 20), well graded soils possessing at least 10 percent fines (that portion of the sample passing the No. 200 sieve). Additional specifications for structural fill are presented in the Grading Guide Specifications, included as Appendix D.

Utility Trench Backfill

In general, all utility trench backfill should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. As an alternative, a clean sand (minimum Sand Equivalent of 30) may be placed within trenches and compacted in place (jetting or flooding is not recommended). Compacted trench backfill should conform to the requirements of the local grading code, and more restrictive requirements may be indicated by the city of Rancho Cucamonga. All utility trench backfills should be witnessed by the geotechnical engineer. The trench backfill soils should be compaction tested where possible; probed and visually evaluated elsewhere.

Utility trenches which parallel a footing, and extending below a 1h:1v (horizontal to vertical) plane projected from the outside edge of the footing should be backfilled with structural fill soils, compacted to at least 90 percent of the ASTM D-1557 standard. Pea gravel backfill should not be used for these trenches.

Any soils used to backfill voids around subsurface utility structures, such as manholes or vaults, should be placed as compacted structural fill. If it is not practical to place compacted fill in these areas, then such void spaces may be backfilled with lean concrete slurry. Uncompacted pea gravel or sand is not recommended for backfilling these voids since these materials have a potential to settle and thereby cause distress of pavements placed around these subterranean structures.

6.4 Construction Considerations

Excavation Considerations

The near-surface soils generally consist of loose to medium dense sands, silty sands and sandy silts. These materials will likely be subject to moderate caving within shallow excavations. Where caving does occur, flattened excavation slopes may be sufficient to provide excavation stability. On a preliminary basis, the inclination of temporary slopes should not exceed 2h:1v. Deeper excavations may require some form of external stabilization such as shoring or bracing. Maintaining adequate moisture content within the near-surface soils will improve excavation stability. All excavation activities on this site should be conducted in accordance with Cal-OSHA regulations.

Moisture Sensitive Subgrade Soils

Some of the near-surface soils possess appreciable silt content. These soils may become unstable if exposed to significant moisture infiltration or disturbance by construction traffic. In addition, based on their granular content, some of the on-site soils will also be susceptible to erosion. The site should, therefore, be graded to prevent ponding of surface water and to prevent water from running into excavations.

If grading occurs during a period of relatively wet weather, subgrade instability should also be expected. The site should, therefore, be graded to prevent ponding of surface water and to prevent water from running into excavations. Consideration should be given to using only tracked vehicles once subgrade instability develops. The use of rubber-tired equipment could result in significant pumping and further deterioration of the exposed subgrade.

If the construction schedule dictates that site grading will occur during a period of wet weather, allowances should be made for costs and delays associated with drying the on-site soils or import of a drier, less moisture-sensitive fill material. Grading during wet or cool weather may also increase the depth of overexcavation in the pad area.

Groundwater

The static groundwater table is considered to have existed at a depth in excess of 30± feet at the time of the subsurface exploration. Therefore, groundwater is not expected to impact the grading or foundation construction activities.

6.5 Foundation Design and Construction

Based on the preceding grading recommendations, it is assumed that the new building pads will be underlain by structural fill soils used to replace the existing fill soils and a portion of the near-surface alluvial soils. These new structural fill soils are expected to extend to depths of at least 2 feet below proposed foundation bearing grade, underlain by 1± foot of additional soil that has been scarified, moisture conditioned, and recompacted. Based on this subsurface profile, the proposed structures may be supported on conventional shallow foundations.

Foundation Design Parameters

New square and rectangular footings may be designed as follows:

- Maximum, net allowable soil bearing pressure: 2,500 lbs/ft^2.
- Minimum wall/column footing width: 14 inches/24 inches.
- Minimum longitudinal steel reinforcement within strip footings: Two (2) No. 5 rebars (1 top and 1 bottom).
- Minimum foundation embedment: 12 inches into suitable structural fill soils, and at least 18 inches below adjacent exterior grade. Interior column footings may be placed immediately beneath the floor slab.
- It is recommended that the perimeter building foundations be continuous across all exterior doorways. Any flatwork adjacent to the exterior doors should be doweled into the perimeter foundations in a manner determined by the structural engineer.

The allowable bearing pressures presented above may be increased by 1/3 when considering short duration wind or seismic loads. The minimum steel reinforcement recommended above is based on geotechnical considerations; additional reinforcement may be necessary for structural considerations. The actual design of the foundations should be determined by the structural engineer.

Foundation Construction

The foundation subgrade soils should be evaluated at the time of overexcavation, as discussed in Section 6.3 of this report. It is further recommended that the foundation subgrade soils be evaluated by the geotechnical engineer immediately prior to steel or concrete placement. Soils suitable for direct foundation support should consist of newly placed structural fill, compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Any unsuitable materials should be removed to a depth of suitable bearing compacted structural fill or suitable native alluvium

(where reduced bearing pressures are utilized), with the resulting excavations backfilled with compacted fill soils. As an alternative, lean concrete slurry (500 to 1,500 psi) may be used to backfill such isolated overexcavations.

The foundation subgrade soils should also be properly moisture conditioned to 0 to 4 percent above the Modified Proctor optimum, to a depth of at least 12 inches below bearing grade. Since it is typically not feasible to increase the moisture content of the floor slab and foundation subgrade soils once rough grading has been completed, care should be taken to maintain the moisture content of the building pad subgrade soils throughout the construction process.

Estimated Foundation Settlements

Post-construction total and differential settlements of shallow foundations designed and constructed in accordance with the previously presented recommendations are estimated to be less than 1.0 and 0.5 inches, respectively. Differential movements are expected to occur over a 30-foot span, thereby resulting in an angular distortion of less than 0.002 inches per inch.

Lateral Load Resistance

Lateral load resistance will be developed by a combination of friction acting at the base of foundations and slabs and the passive earth pressure developed by footings below grade. The following friction and passive pressure may be used to resist lateral forces:

- Passive Earth Pressure: 300 lbs/ft^3
- Friction Coefficient: 0.30

These are allowable values, and include a factor of safety. When combining friction and passive resistance, the passive pressure component should be reduced by one-third. These values assume that footings will be poured directly against compacted structural fill soils. The maximum allowable passive pressure is 3,000 lbs/ft^2.

6.6 Floor Slab Design and Construction

Subgrades which will support the new floor slabs should be prepared in accordance with the recommendations contained in the *Site Grading Recommendations* section of this report. Based on the anticipated grading which will occur at this site, the floors of the proposed structures may be constructed as conventional slabs-on-grade supported on newly placed structural fill (or densified existing soils), extending to a depth of at least 3 feet below finished pad grades. Based on geotechnical considerations, the floor slabs may be designed as follows:

- Minimum slab thickness: 6 inches.

- Modulus of Subgrade Reaction: k = 150 psi/in.

- Minimum slab reinforcement: Reinforcement is not considered necessary from a geotechnical standpoint. The actual floor slab reinforcement should be determined by the structural engineer, based on the imposed slab loading.

- Slab underlayment: If moisture sensitive floor coverings will be used then minimum slab underlayment should consist of a moisture vapor barrier constructed below the entire area of the proposed slab where such moisture sensitive floor coverings are anticipated. The moisture vapor barrier should meet or exceed the Class A rating as defined by ASTM E 1745-97 and have a permeance rating less than 0.01 perms as described in ASTM E 96-95 and ASTM E 154-88. A polyolefin material such as Stego® Wrap Vapor Barrier or equivalent will meet these specifications. The moisture vapor barrier should be properly constructed in accordance with all applicable manufacturer specifications. Given that a rock free subgrade is anticipated and that a capillary break is not required, sand below the barrier is not required. The need for sand and/or the amount of sand above the moisture vapor barrier should be specified by the structural engineer or concrete contractor. The selection of sand above the barrier is not a geotechnical engineering issue and hence outside our purview. Where moisture sensitive floor coverings are not anticipated, the vapor barrier may be eliminated.

- Moisture condition the floor slab subgrade soils to 0 to 4 percent above the Modified Proctor optimum moisture content, to a depth of 12 inches. The moisture content of the floor slab subgrade soils should be verified by the geotechnical engineer within 24 hours prior to concrete placement.

- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.

The actual design of the floor slabs should be completed by the structural engineer to verify adequate thickness and reinforcement.

6.7 Retaining Wall Design and Construction

Although not indicated on the site plans, some small (less than 6 feet in height) retaining walls may be required to facilitate the new site grades. The parameters recommended for use in the design of these walls are presented below.

Retaining Wall Design Parameters

Based on the soil conditions encountered at the boring locations, the following parameters may be used in the design of new retaining walls for this site. We have provided parameters assuming the use of on-site soils for retaining wall backfill. The on-site soils generally consist of silty sands, sands, and sandy silts. Based on their classification, these materials are expected to possess a friction angle of at least 30 degrees when compacted to at least 90 percent of the ASTM D-1557 maximum dry density.

If desired, SCG could provide design parameters for an alternative select backfill material behind the retaining walls. The use of select backfill material could result in lower lateral earth pressures. In order to use the design parameters for the imported select fill, this material must be placed within the entire active failure wedge. This wedge is defined as extending from the heel of the retaining wall upwards at an angle of approximately 60° from horizontal. If select backfill material behind the retaining wall is desired, SCG should be contacted for supplementary recommendations.

RETAINING WALL DESIGN PARAMETERS

Design Parameter		Soil Type On-site Silty Sands and Sandy Silts
Internal Friction Angle (ϕ)		30°
Unit Weight		130 lbs/ft^3
Equivalent Fluid Pressure:	Active Condition (level backfill)	43 lbs/ft^3
	Active Condition (2h:1v backfill)	70 lbs/ft^3
	At-Rest Condition (level backfill)	65 lbs/ft^3

The walls should be designed using a soil-footing coefficient of friction of 0.30 and an equivalent passive pressure of 300 lbs/ft^3. The structural engineer should incorporate appropriate factors of safety in the design of the retaining walls.

The active earth pressure may be used for the design of retaining walls that do not directly support structures or support soils that in turn support structures and which will be allowed to deflect. The at-rest earth pressure should be used for walls that will not be allowed to deflect such as those which will support foundation bearing soils, or which will support foundation loads directly.

Where the soils on the toe side of the retaining wall are not covered by a "hard" surface such as a structure or pavement, the upper 1 foot of soil should be neglected when calculating passive resistance due to the potential for the material to become disturbed or degraded during the life of the structure.

Seismic Lateral Earth Pressures

In accordance with the 2019 CBC, any retaining walls more than 6 feet in height must be designed for seismic lateral earth pressures. If walls 6 feet or more are required for this site, the geotechnical engineer should be contacted for supplementary seismic lateral earth pressure recommendations.

Retaining Wall Foundation Design

The retaining wall foundations should be underlain by at least 2 feet of newly placed structural fill. Foundations to support new retaining walls should be designed in accordance with the general Foundation Design Parameters presented in a previous section of this report.

Backfill Material

On-site soils may be used to backfill the retaining walls. However, all backfill material placed within 3 feet of the back wall face should have a particle size no greater than 3 inches. The retaining wall backfill materials should be well graded.

It is recommended that a properly installed prefabricated drainage composite such as the MiraDRAIN 6000XL (or approved equivalent), which is specifically designed for use behind retaining walls be used. If the drainage composite material is not covered by an impermeable surface, such as a structure or pavement, a 12-inch thick layer of a low permeability soil should be placed over the backfill to reduce surface water migration to the underlying soils. The drainage composite should be separated from the backfill soils by a suitable geotextile, approved by the geotechnical engineer.

All retaining wall backfill should be placed and compacted under engineering controlled conditions in the necessary layer thicknesses to ensure an in-place density between 90 and 93 percent of the maximum dry density as determined by the Modified Proctor test (ASTM D1557). Care should be taken to avoid over-compaction of the soils behind the retaining walls, and the use of heavy compaction equipment should be avoided.

Subsurface Drainage

As previously indicated, the retaining wall design parameters are based upon drained backfill conditions. Consequently, some form of permanent drainage system will be necessary in conjunction with the appropriate backfill material. Subsurface drainage may consist of either:

- A weep hole drainage system typically consisting of a series of 4-inch diameter holes in the wall situated slightly above the ground surface elevation on the exposed side of the wall and at an approximate 8-foot on-center spacing. The weep holes should include a 2 cubic foot pocket of open graded gravel, surrounded by an approved geotextile fabric, at each weep hole location.

- A 4-inch diameter perforated pipe surrounded by 2 cubic feet of gravel per linear foot of drain placed behind the wall, above the retaining wall footing. The gravel layer should be wrapped in a suitable geotextile fabric to reduce the potential for migration of fines. The footing drain should be extended to daylight or tied into a storm drainage system.

6.8 Pavement Design Parameters

Site preparation in the pavement area should be completed as previously recommended in the *Site Grading Recommendations* section of this report. The subsequent pavement recommendations assume proper drainage and construction monitoring, and are based on either PCA or CALTRANS design parameters for a twenty (20) year design period. However, these designs also assume a routine pavement maintenance program to obtain the anticipated 20-year pavement service life.

Pavement Subgrades

It is anticipated that the new pavements will be primarily supported on a layer of compacted structural fill, consisting of scarified, thoroughly moisture conditioned and recompacted existing soils. The near-surface soils generally consist of silty sands and sands with occasional interbedded sandy silt, sandy clay, and silty clay strata. These soils are generally considered to possess good pavement support characteristics, with R-values in the range of 50 to 60. The subsequent

pavement design is therefore based upon an assumed R-value of 50. Any fill material imported to the site should have support characteristics equal to or greater than that of the on-site soils and be placed and compacted under engineering controlled conditions. It is recommended that R-value testing be performed after completion of rough grading to verify that the pavement design recommendations presented herein are valid.

Asphaltic Concrete

Presented below are the recommended thicknesses for new flexible pavement structures consisting of asphaltic concrete over a granular base. The pavement designs are based on the traffic indices (TI's) indicated. The client and/or civil engineer should verify that these TI's are representative of the anticipated traffic volumes. If the client and/or civil engineer determine that the expected traffic volume will exceed the applicable traffic index, we should be contacted for supplementary recommendations. The design traffic indices equate to the following approximate daily traffic volumes over a 20-year design life, assuming six operational traffic days per week.

Traffic Index	No. of Heavy Trucks per Day
4.0	0
5.0	1
6.0	3
7.0	11
8.0	35
9.0	93

For the purpose of the traffic volumes indicated above, a truck is defined as a 5-axle tractor trailer unit with one 8-kip axle and two 32-kip tandem axles. All of the traffic indices allow for 1,000 automobiles per day.

ASPHALT PAVEMENTS (R=50)					
Materials	Thickness (inches)				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	3	4	5	5	7
Compacted Subgrade	12	12	12	12	12

The aggregate base course should be compacted to at least 95 percent of the ASTM D-1557 maximum dry density. The asphaltic concrete should be compacted to at least 95 percent of the Marshall maximum density, as determined by ASTM D-2726. The aggregate base course may consist of crushed aggregate base (CAB) or crushed miscellaneous base (CMB), which is a recycled gravel, asphalt and concrete material. The gradation, R-Value, Sand Equivalent, and Percentage Wear of the CAB or CMB should comply with appropriate specifications contained in the current edition of the "Greenbook" Standard Specifications for Public Works Construction.

Portland Cement Concrete

The preparation of the subgrade soils within concrete pavement areas should be performed as previously described for proposed asphalt pavement areas. The minimum recommended thicknesses for the Portland Cement Concrete pavement sections are as follows:

PORTLAND CEMENT CONCRETE PAVEMENTS (R=50)				
Materials	Thickness (inches)			
	Autos and Light Truck Traffic (TI = 6.0)	Truck Traffic		
		TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	5½	6½	8
Compacted Subgrade (95% minimum compaction)	12	12	12	12

The concrete should have a 28-day compressive strength of at least 3,000 psi. Any reinforcement within the PCC pavements should be determined by the project structural engineer. The maximum joint spacing within all of the PCC pavements is recommended to be equal to or less than 30 times the pavement thickness.

7.0 GENERAL COMMENTS

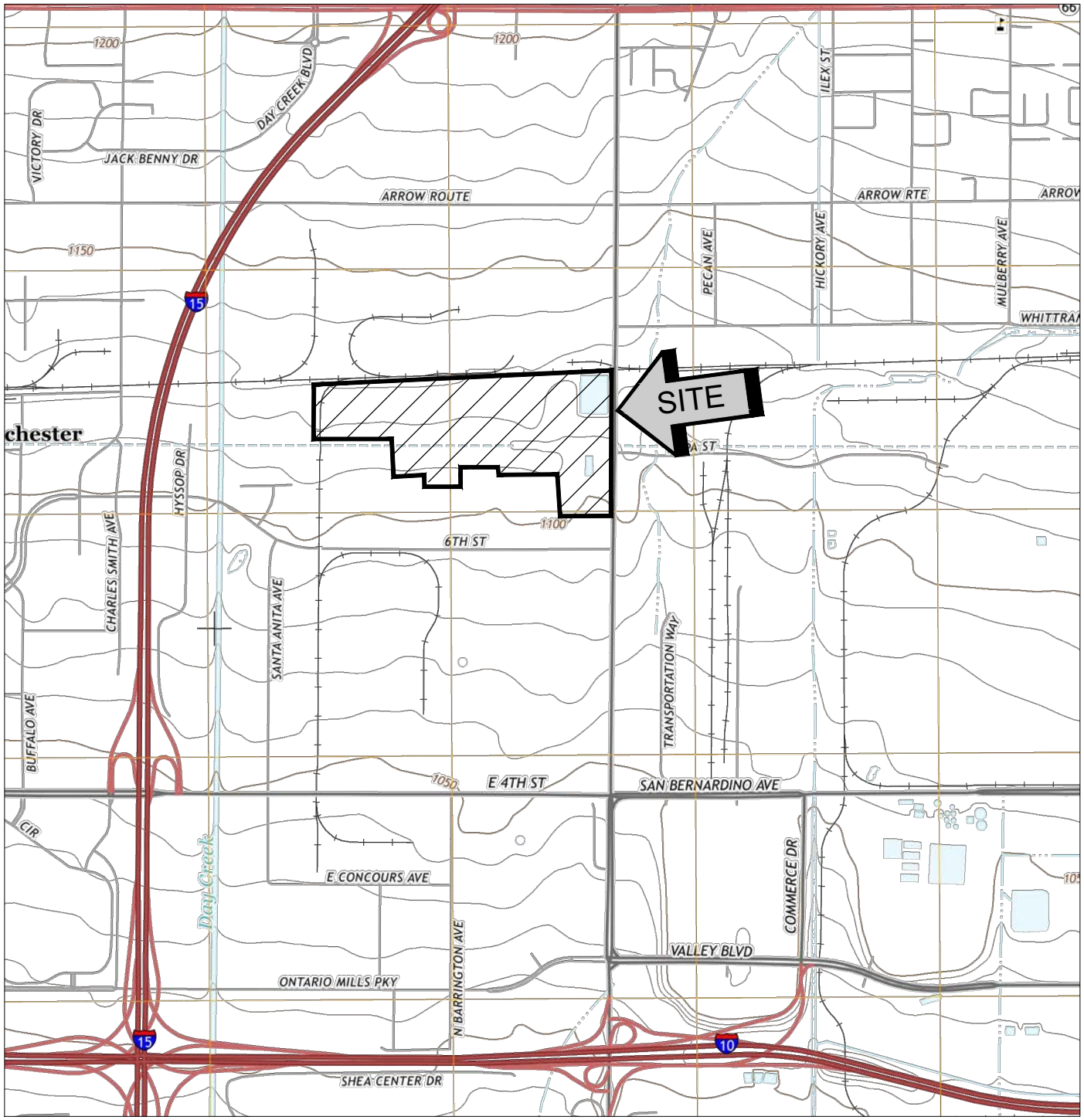
This report has been prepared as an instrument of service for use by the client, in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, civil engineer, and/or structural engineer. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur. The client(s)' reliance upon this report is subject to the Engineering Services Agreement, incorporated into our proposal for this project.

The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between boring locations and sample depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted.

The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.

APPENDIX A



SOURCE: USGS TOPOGRAPHIC MAP OF THE GUASTI QUADRANGLE, SAN BERNARDINO COUNTY, CALIFORNIA, 2018

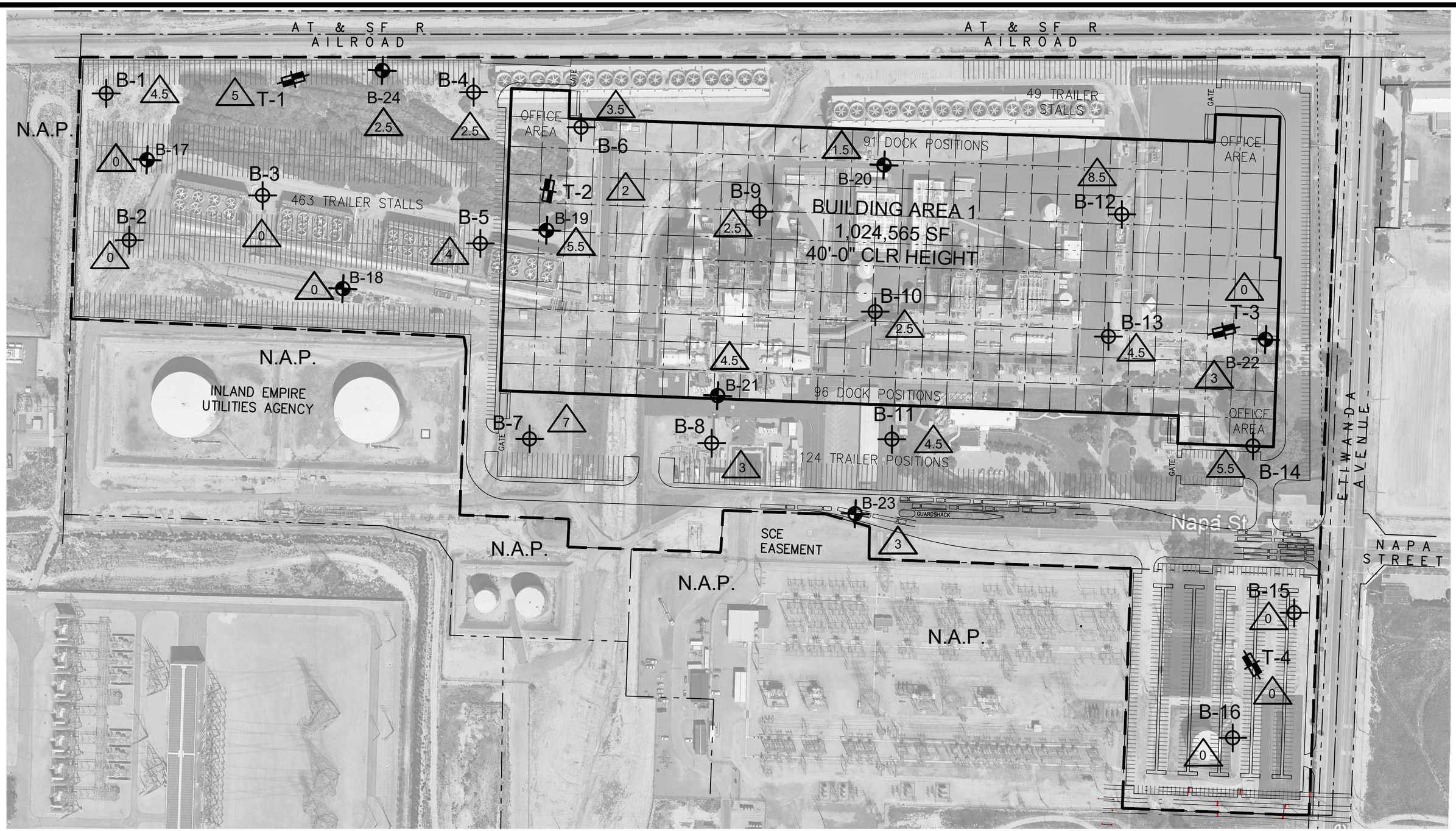
SITE LOCATION MAP

PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

RANCHO CUCAMONGA, CALIFORNIA

SCALE: 1" = 2000'	
DRAWN: OS CHKD: RGT	
SCG PROJECT 20G207-1	
PLATE 1	

SoCalGeo SOUTHERN CALIFORNIA GEOTECHNICAL



GEOTECHNICAL LEGEND

- APPROXIMATE BORING LOCATION
- PREVIOUS TRENCH LOCATION (SCG PROJECT NO. 19G174-1)
- PREVIOUS BORING LOCATION (SCG PROJECT NO. 19G174-1)
- 8.5 — APPROXIMATE FILL DEPTH ENCOUNTERED AT BORING AND TRENCH LOCATIONS

NORTH

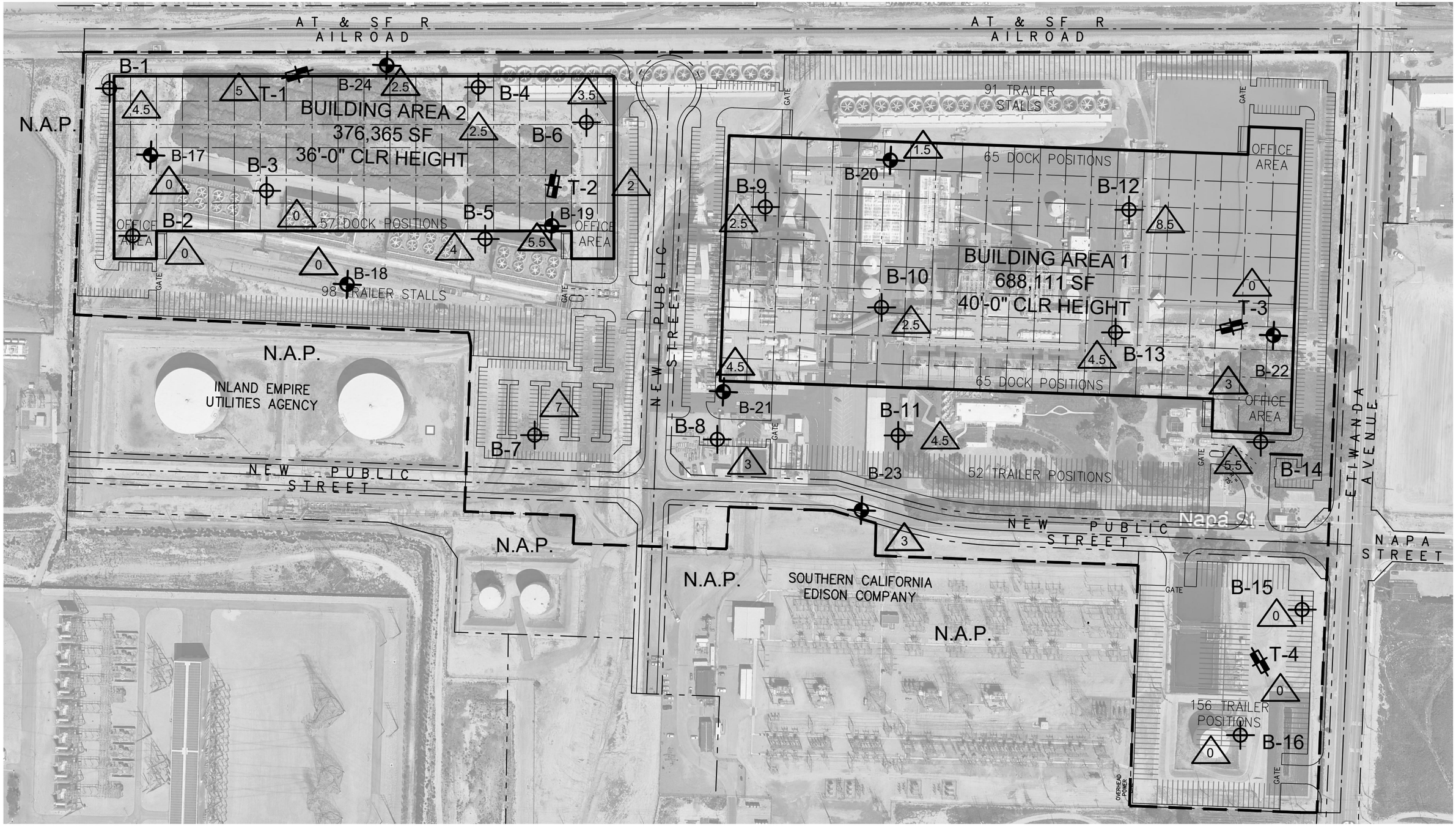
NOTE: AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH. CONCEPTUAL SITE PLAN PROVIDED BY RGA.

BORING AND TRENCH LOCATION PLAN - SCHEME 5

PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

RANCHO CUCAMONGA, CALIFORNIA

SCALE: 1" = 200'	SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: JLL CHKD: RGT	
SCG PROJECT 20G207-1	
PLATE 2A	



GEOTECHNICAL LEGEND

- APPROXIMATE BORING LOCATION
- PREVIOUS TRENCH LOCATION (SCG PROJECT NO. 19G174-1)
- PREVIOUS BORING LOCATION (SCG PROJECT NO. 19G174-1)
- 8.5 APPROXIMATE FILL DEPTH ENCOUNTERED AT BORING AND TRENCH LOCATIONS

NORTH

NOTE: AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH. CONCEPTUAL SITE PLAN PROVIDED BY RGA.

BORING AND TRENCH LOCATION PLAN - SCHEME 6.8

PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

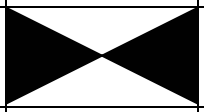
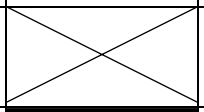
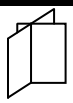
RANCHO CUCAMONGA, CALIFORNIA

SCALE: 1" = 200'	
DRAWN: JLL CHKD: RGT	
SCG PROJECT 20G207-1	
PLATE 2B	

SoCalGeo SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX B

BORING LOG LEGEND

SAMPLE TYPE	GRAPHICAL SYMBOL	SAMPLE DESCRIPTION
AUGER		SAMPLE COLLECTED FROM AUGER CUTTINGS, NO FIELD MEASUREMENT OF SOIL STRENGTH. (DISTURBED)
CORE		ROCK CORE SAMPLE: TYPICALLY TAKEN WITH A DIAMOND-TIPPED CORE BARREL. TYPICALLY USED ONLY IN HIGHLY CONSOLIDATED BEDROCK.
GRAB		SOIL SAMPLE TAKEN WITH NO SPECIALIZED EQUIPMENT, SUCH AS FROM A STOCKPILE OR THE GROUND SURFACE. (DISTURBED)
CS		CALIFORNIA SAMPLER: 2-1/2 INCH I.D. SPLIT BARREL SAMPLER, LINED WITH 1-INCH HIGH BRASS RINGS. DRIVEN WITH SPT HAMMER. (RELATIVELY UNDISTURBED)
NSR		NO RECOVERY: THE SAMPLING ATTEMPT DID NOT RESULT IN RECOVERY OF ANY SIGNIFICANT SOIL OR ROCK MATERIAL.
SPT		STANDARD PENETRATION TEST: SAMPLER IS A 1.4 INCH INSIDE DIAMETER SPLIT BARREL, DRIVEN 18 INCHES WITH THE SPT HAMMER. (DISTURBED)
SH		SHELBY TUBE: TAKEN WITH A THIN WALL SAMPLE TUBE, PUSHED INTO THE SOIL AND THEN EXTRACTED. (UNDISTURBED)
VANE		VANE SHEAR TEST: SOIL STRENGTH OBTAINED USING A 4 BLADED SHEAR DEVICE. TYPICALLY USED IN SOFT CLAYS-NO SAMPLE RECOVERED.

COLUMN DESCRIPTIONS

DEPTH: Distance in feet below the ground surface.

SAMPLE: Sample Type as depicted above.

BLOW COUNT: Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.

POCKET PEN.: Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.

GRAPHIC LOG: Graphic Soil Symbol as depicted on the following page.

DRY DENSITY: Dry density of an undisturbed or relatively undisturbed sample in lbs/ft^3.

MOISTURE CONTENT: Moisture content of a soil sample, expressed as a percentage of the dry weight.

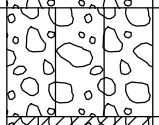
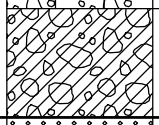
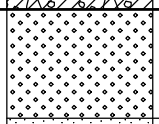
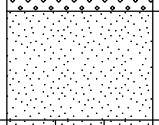
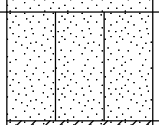
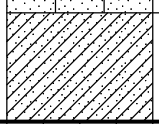
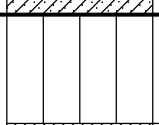
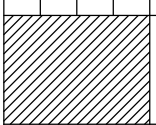
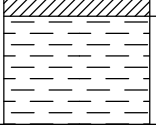
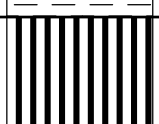
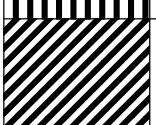
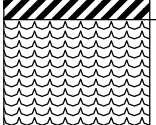
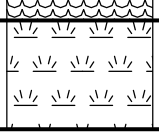
LIQUID LIMIT: The moisture content above which a soil behaves as a liquid.

PLASTIC LIMIT: The moisture content above which a soil behaves as a plastic.

PASSING #200 SIEVE: The percentage of the sample finer than the #200 standard sieve.

UNCONFINED SHEAR: The shear strength of a cohesive soil sample, as measured in the unconfined state.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-17

JOB NO.: 20G207-1
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 10/13/20
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Oscar Sandoval

WATER DEPTH: Dry
CAVE DEPTH: 9 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		16			ALLUVIUM: Light Gray Brown to Gray Brown fine to medium Sand, trace medium Sand, little Silt, trace fine Gravel, medium dense-damp		3					
		11			Brown Silty fine Sand, trace medium Sand, trace Silt nodules, medium dense-damp to moist		10					
5		10			Brown Silty fine Sand, little Clay nodules, medium dense-moist to very moist		11					
		15			Gray Brown fine Sandy Silt, little Clay, medium dense-moist to very moist		19					
10												
					Brown fine Sandy Silt, medium dense-moist							
		14					12					
15												
					Brown Silty fine Sand, trace medium to coarse Sand, trace Iron oxide staining, dense-moist to very moist							
		36					11					
20												
					Brown fine to coarse Sand, trace to little Silt, trace fine Gravel, dense-damp to moist							
		34					6					
25												
					Boring Terminated at 25'							

TBL 20G207.GPJ SOCALGEO.GDT 10/30/20

TEST BORING LOG

PLATE B-1

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-18

JOB NO.: 20G207-1 | DRILLING DATE: 10/13/20 | WATER DEPTH: Dry
PROJECT: Proposed C/I Development | DRILLING METHOD: Hollow Stem Auger | CAVE DEPTH: 19 feet
LOCATION: Rancho Cucamonga, California | LOGGED BY: Oscar Sandoval | READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					2½± inches Asphaltic concrete, 4± inches Aggregate base							
		8			ALLUVIUM: Gray Brown Silty fine Sand, trace medium Sand, trace fine Gravel, loose-damp		7					
		9					6					
5		7			@ 6 feet trace Silt nodules, moist		11					
		11			Brown Silty fine Sand, medium dense-damp to moist		8					
10												
		14			@ 13½ feet trace Clay nodules		10					
15												
					Brown to Gray Brown Silty fine Sand, trace Clay, medium dense-moist							
		21					10					
20												
		18					10					
25					Boring Terminated at 25'							

TBL 20G207.GPJ SOCALGEO.GDT 10/30/20

TEST BORING LOG **PLATE B-2**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-19

JOB NO.: 20G207-1
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 10/13/20
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Oscar Sandoval

WATER DEPTH: Dry
CAVE DEPTH: 21 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		13			FILL: Light Gray Brown Silty fine Sand, trace medium to coarse Sand, trace fine Gravel, mottled, medium dense-dry		2					
		24					2					
5												
		16			ALLUVIUM: Brown Silty fine Sand to fine Sandy Silt, trace Clay, medium dense-moist to very moist		13					
		22					14					
10												
		19					13					
15												
		23	4.5		Brown Clayey Silt, trace to little fine Sand, very stiff-damp to moist		12					
20												
		29			Brown fine to medium Sand, trace coarse Sand, trace Silt, trace Clay, trace Calcareous nodules, medium dense to dense-moist		7					
25												
		45					7					
30					Boring Terminated at 30'							

TBL 20G207.GPJ SOCALGEO.GDT 10/30/20

TEST BORING LOG

PLATE B-3

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-20

JOB NO.: 20G207-1
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 10/13/20
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Oscar Sandoval

WATER DEPTH: Dry
CAVE DEPTH: 11 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					6± inches Asphaltic concrete, No discernable Aggregate Base							
		18			FILL: Gray Brown Silty fine to medium Sand, trace coarse Sand, trace Asphaltic concrete fragments, medium dense-moist	111	9					
		15			ALLUVIUM: Light Gray Brown to Gray Brown fine to medium Sand, trace coarse Sand, trace fine Gravel, trace Silt, medium dense-damp to moist	96	7					
5		31				110	6					
		32				106	5					
		35				101	6					
10												
					Light Gray Brown fine Sand, trace medium to coarse Sand, trace Silt, medium dense-damp							
		27					5					
15												
					Brown Silty fine Sand to fine Sandy Silt, medium dense-moist							
		28					11					
20												
					Boring Terminated at 20'							

TBL 20G207.GPJ SOCALGEO.GDT 10/30/20

TEST BORING LOG **PLATE B-4**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-21

JOB NO.: 20G207-1
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 10/13/20
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Oscar Sandoval

WATER DEPTH: Dry
CAVE DEPTH: 16 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					4± inches Asphaltic concrete, 6± inches Aggregate base							
		39			FILL: Light Brown Silty fine Sand, trace to little medium to coarse Sand, trace fine Gravel, trace Concrete fragments, laminated, medium dense-damp	122	6					
		39			FILL: Gray Brown fine Sand, trace medium to coarse Sand, little Silt, mottled, medium dense-moist	108	7					
5		14			ALLUVIUM: Dark Gray Brown Silty fine Sand, trace to little medium to coarse Sand, trace fine Gravel, loose-moist	105	11					
		14			Brown fine to medium Sand, trace coarse Sand, trace fine Gravel, trace Silt, loose-damp	109	5					
10		12				102	5					
		18			Brown fine Sandy Silt, medium dense-very moist		15					
15												
		31			Brown Silty fine Sand, trace medium to coarse Sand, trace fine Gravel, medium dense to dense-moist		8					
20												
		28					8					
25					Boring Terminated at 25'							

TBL 20G207.GPJ SOCALGEO.GDT 10/30/20

TEST BORING LOG

PLATE B-5

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-22

JOB NO.: 20G207-1
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 10/13/20
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Oscar Sandoval

WATER DEPTH: Dry
CAVE DEPTH: 13 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		43			FILL: Light Gray Silty fine to medium Sand, little coarse Sand, trace Concrete fragments, dense-damp		3					
		14			ALLUVIUM: Light Brown Silty fine Sand, little medium to coarse Sand, trace fine root fibers, medium dense-damp		4					
5		35			@ 6 feet trace fine Gravel, dense		5					
		29			Light Brown fine to medium Sand, trace coarse Sand, trace Silt, trace fine Gravel, medium dense-damp		3					
10					Brown Silty fine to medium Sand, trace coarse Sand, dense-damp							
		30					6					
15					Brown fine to coarse Sand, trace Silt, dense-damp							
		31					4					
20					Brown fine Sand, trace to little Silt, dense-damp to moist							
		37					6					
25					Boring Terminated at 25'							

TBL 20G207.GPJ SOCALGEO.GDT 10/30/20

TEST BORING LOG **PLATE B-6**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-23

JOB NO.: 20G207-1
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 10/13/20
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Oscar Sandoval

WATER DEPTH: Dry
CAVE DEPTH: 6 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					2± inch layer open-graded Gravel							
		12			FILL: Light Brown Silty fine Sand, trace Clay, medium dense-damp		7					
		20			ALLUVIUM: Light Gray Brown Silty fine Sand to fine Sandy Silt, trace medium to coarse Sand, trace Clay, medium dense-damp		7					
5												
		14			Gray Brown Silty fine Sand, trace medium Sand, trace Silt nodules, medium dense-moist to very moist		13					
		28			Gray Brown fine to medium Sand, trace Silt, trace Clay nodules, medium dense-damp to moist		7					
10												
					Boring Terminated at 25'							

TBL 20G207.GPJ SOCALGEO.GDT 10/30/20

TEST BORING LOG

PLATE B-7

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-24

JOB NO.: 20G207-1
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 10/13/20
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Oscar Sandoval

WATER DEPTH: Dry
CAVE DEPTH: 16 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					2± inch layer open-graded Gravel							
		48			FILL: Dark Gray Brown fine Sand, trace medium to coarse Sand, little Silt, trace fine Gravel, mottled, dense-damp	110	4					
		18			ALLUVIUM: Dark Brown fine to medium Sand, trace to little Silt, medium dense-damp	105	4					
5		21				94	2					
		22			Light Gray Brown to Gray Brown Silty fine Sand, trace medium to coarse Sand, trace fine Gravel, trace Calcareous veining, medium dense-damp	119	3					
		18				120	6					
10												
					Brown fine Sandy Silt, trace Clay, medium dense-moist to very moist							
		17					14					
15												
					Gray Brown Silty fine Sand to fine Sandy Silt, medium dense-moist to very moist							
		12					13					
20												
					Boring Terminated at 20'							

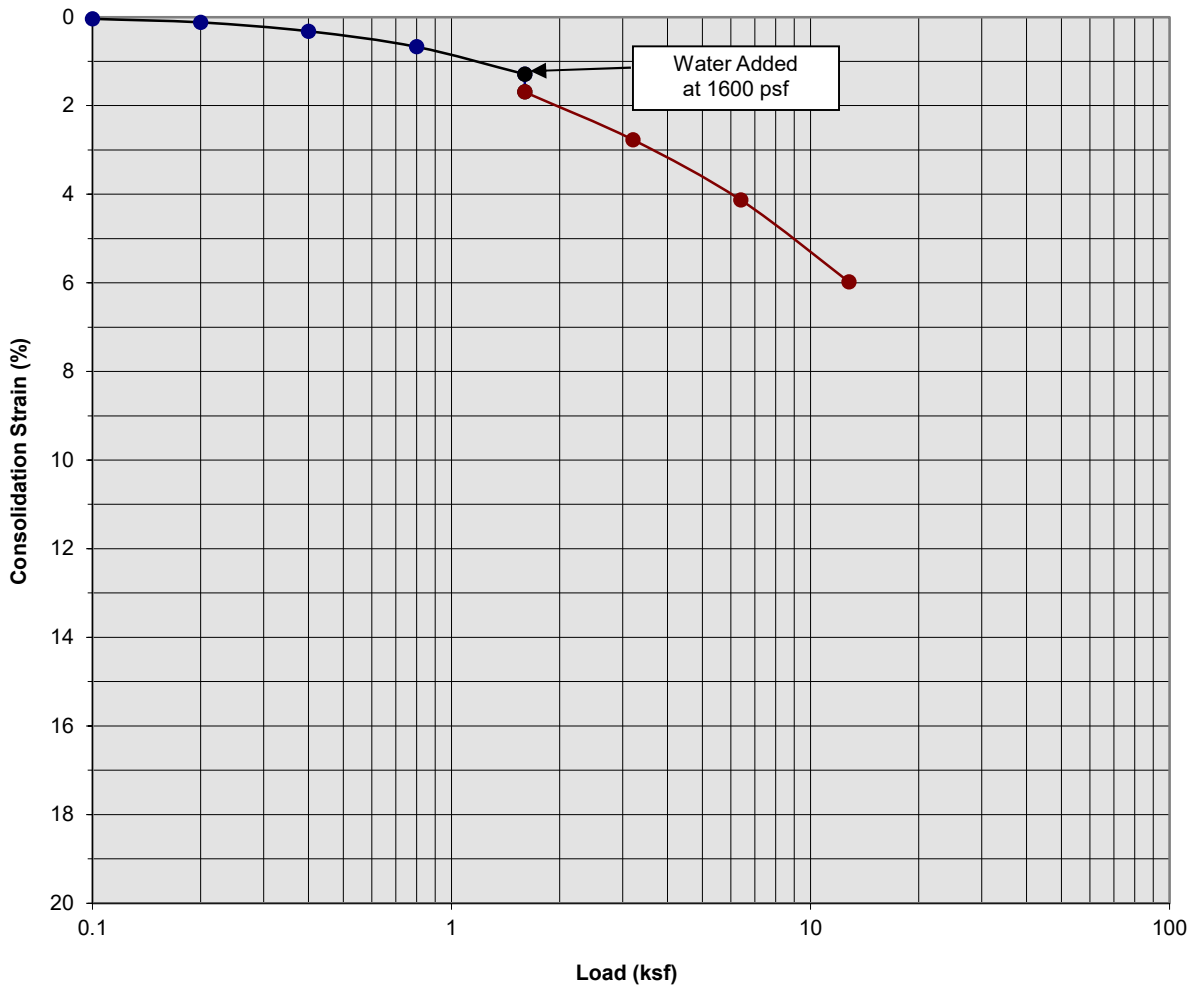
TBL 20G207.GPJ SOCALGEO.GDT 10/30/20

TEST BORING LOG

PLATE B-8

APPENDIX C

Consolidation/Collapse Test Results



Classification: Light Gray Brown to Gray Brown fine to medium Sand

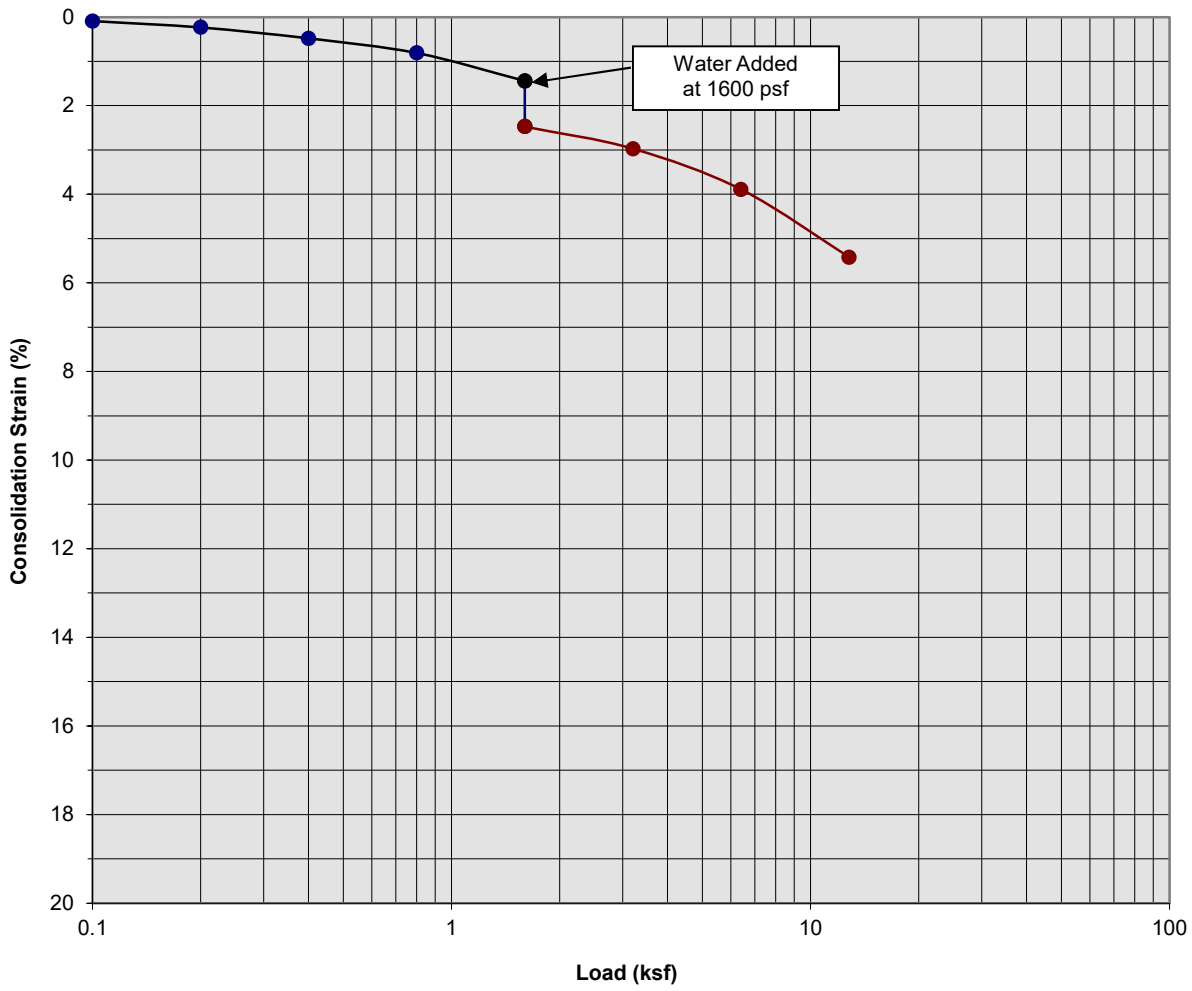
Boring Number:	B-20	Initial Moisture Content (%)	7
Sample Number:	---	Final Moisture Content (%)	22
Depth (ft)	3 to 4	Initial Dry Density (pcf)	96.5
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	102.2
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.40

Proposed C/I Development
Rancho Cucamonga, California
Project No. 20G207-1

PLATE C-1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Light Gray Brown to Gray Brown fine to medium Sand

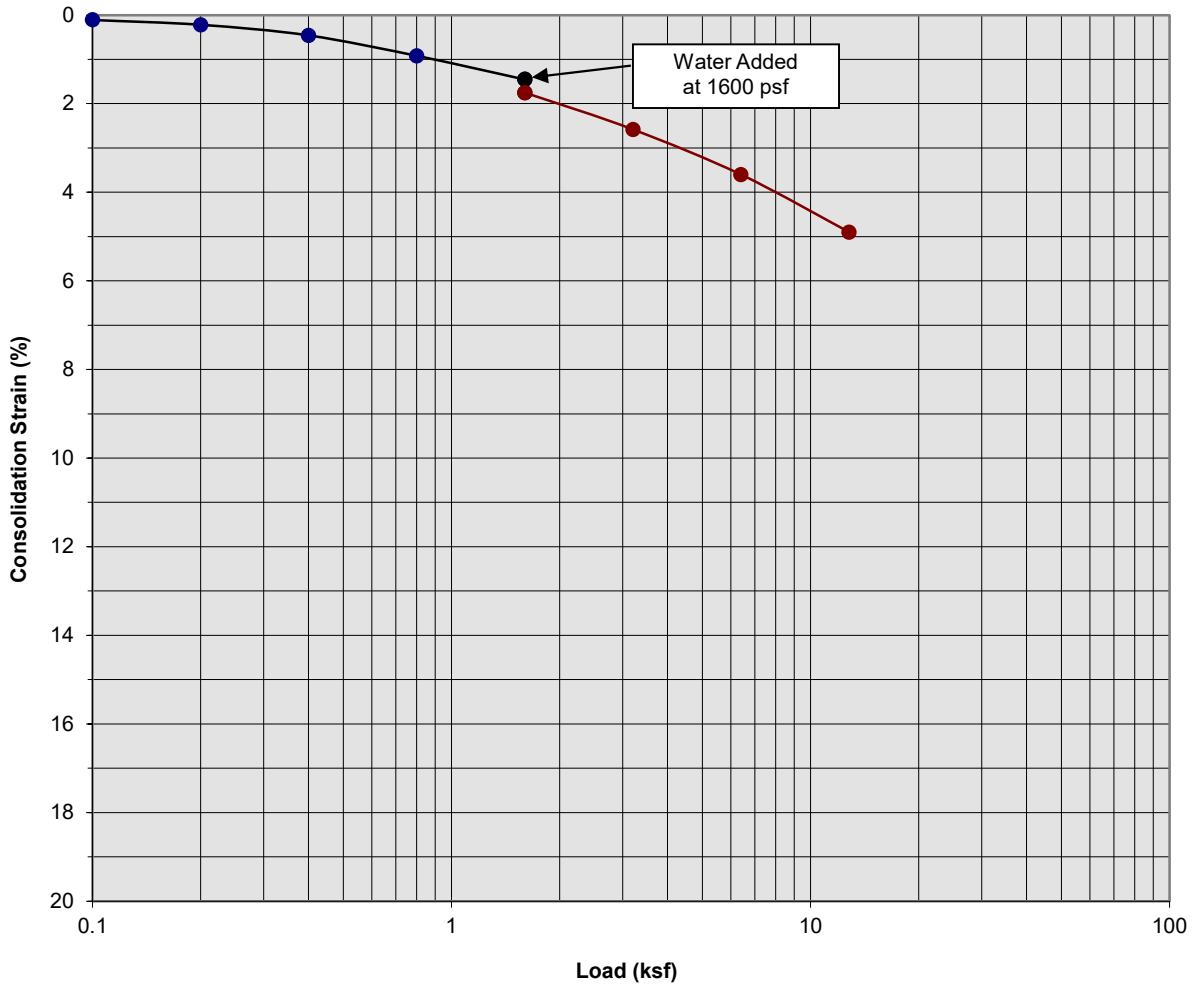
Boring Number:	B-20	Initial Moisture Content (%)	6
Sample Number:	---	Final Moisture Content (%)	18
Depth (ft)	5 to 6	Initial Dry Density (pcf)	110.6
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	116.0
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.03

Proposed C/I Development
Rancho Cucamonga, California
Project No. 20G207-1

PLATE C-2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Light Gray Brown to Gray Brown fine to medium Sand

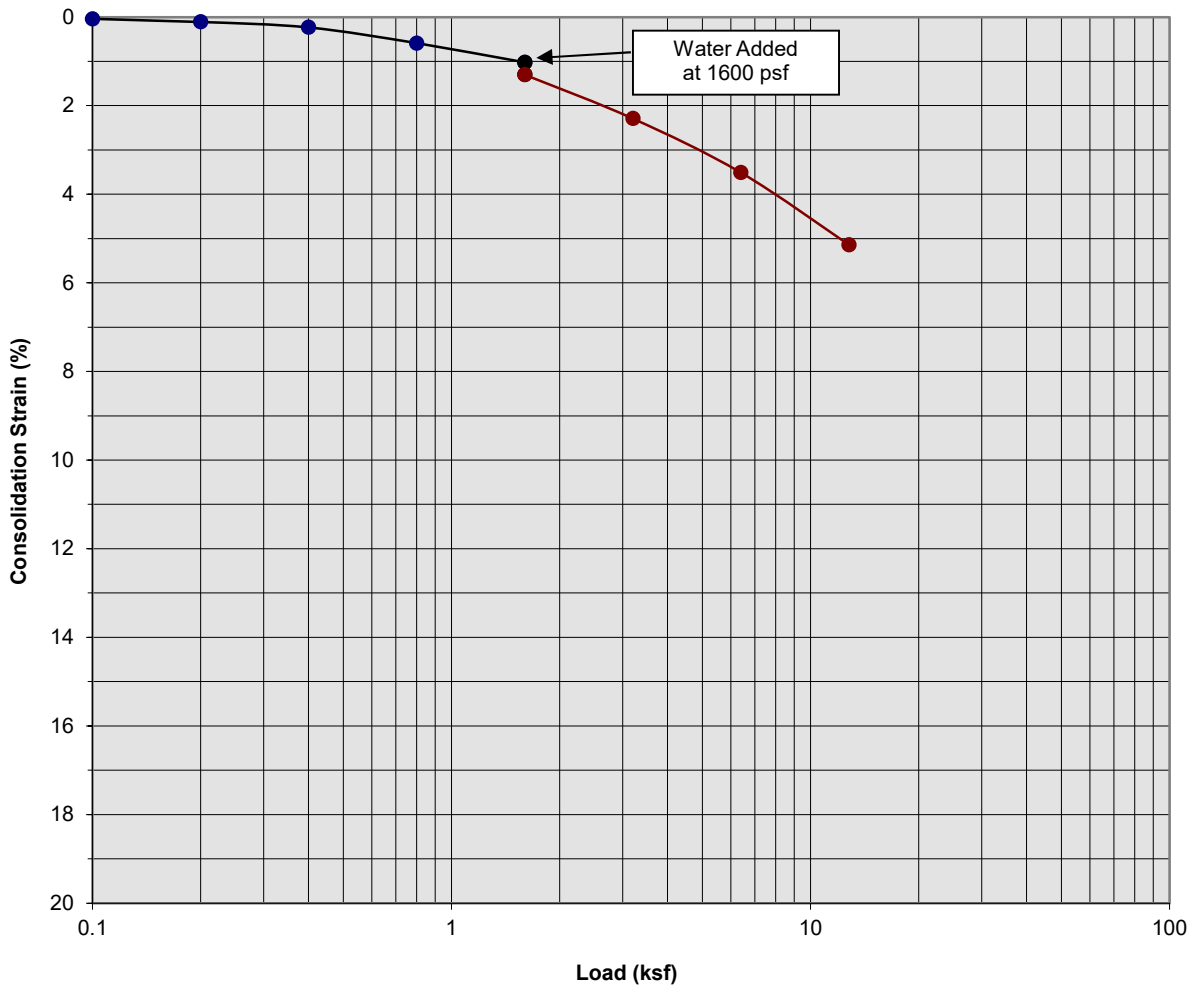
Boring Number:	B-20	Initial Moisture Content (%)	5
Sample Number:	---	Final Moisture Content (%)	18
Depth (ft)	7 to 8	Initial Dry Density (pcf)	105.4
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	109.7
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.30

Proposed C/I Development
Rancho Cucamonga, California
Project No. 20G207-1

PLATE C-3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Light Gray Brown to Gray Brown fine to medium Sand

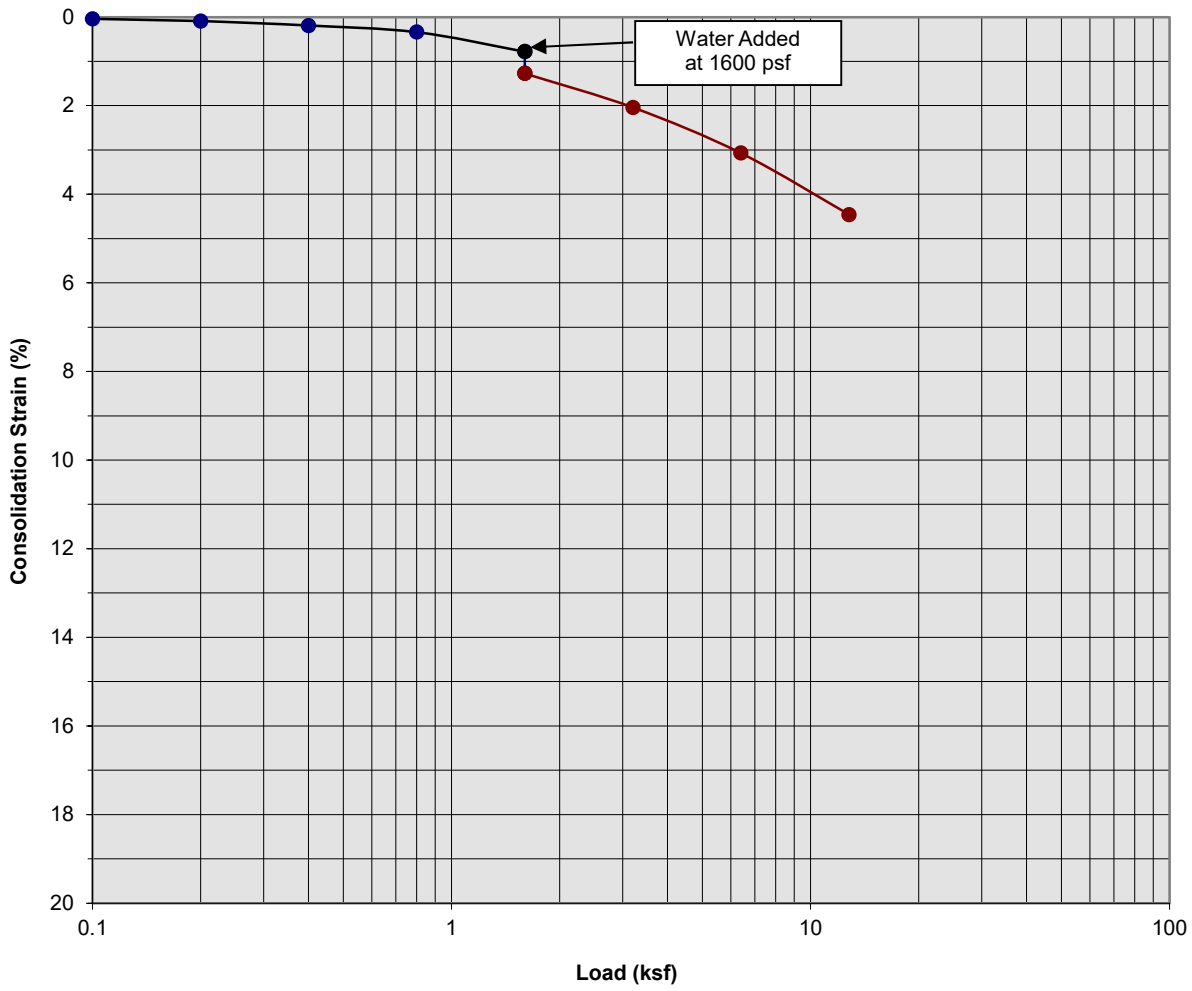
Boring Number:	B-20	Initial Moisture Content (%)	6
Sample Number:	---	Final Moisture Content (%)	20
Depth (ft)	9 to 10	Initial Dry Density (pcf)	100.6
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	105.2
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.28

Proposed C/I Development
Rancho Cucamonga, California
Project No. 20G207-1

PLATE C-4

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Dark Brown fine to medium Sand, trace to little Silt

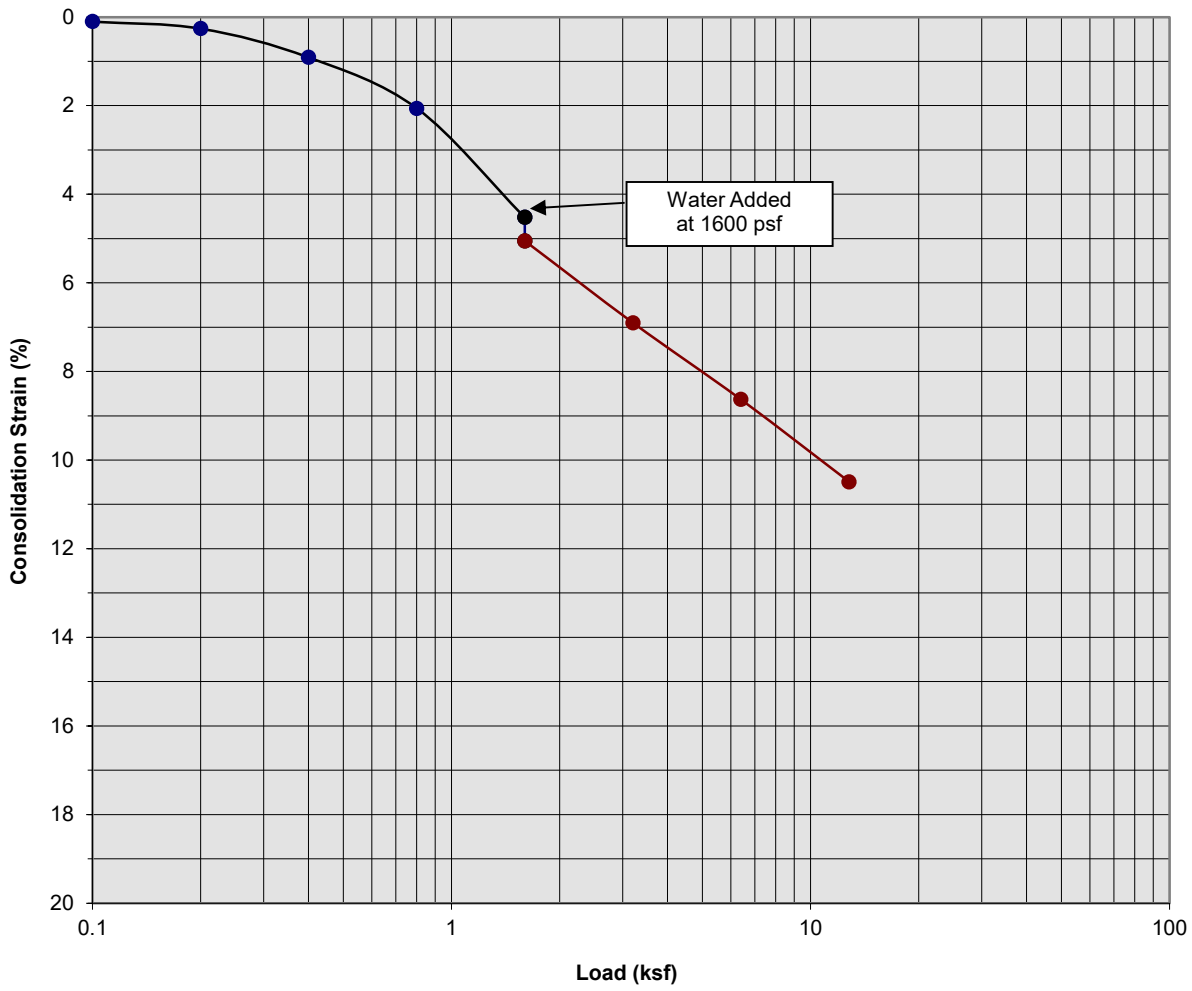
Boring Number:	B-24	Initial Moisture Content (%)	4
Sample Number:	---	Final Moisture Content (%)	17
Depth (ft)	3 to 4	Initial Dry Density (pcf)	105.0
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	109.2
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.49

Proposed C/I Development
Rancho Cucamonga, California
Project No. 20G207-1

PLATE C-5

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Dark Brown fine to medium Sand, trace to little Silt

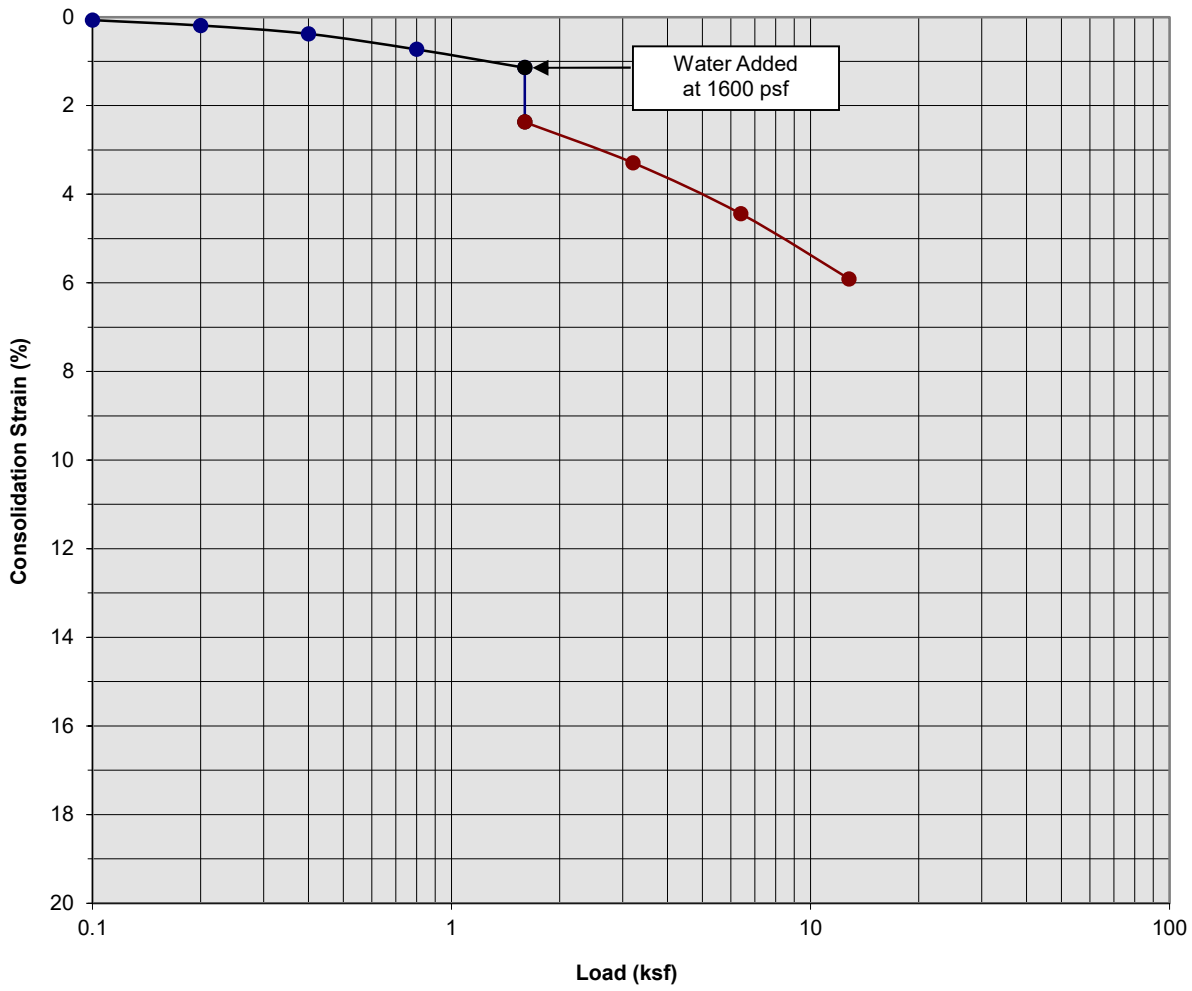
Boring Number:	B-24	Initial Moisture Content (%)	3
Sample Number:	---	Final Moisture Content (%)	13
Depth (ft)	5 to 6	Initial Dry Density (pcf)	94.0
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	104.9
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.53

Proposed C/I Development
Rancho Cucamonga, California
Project No. 20G207-1

PLATE C-6

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Light Gray Brown to Gray Brown Silty fine Sand

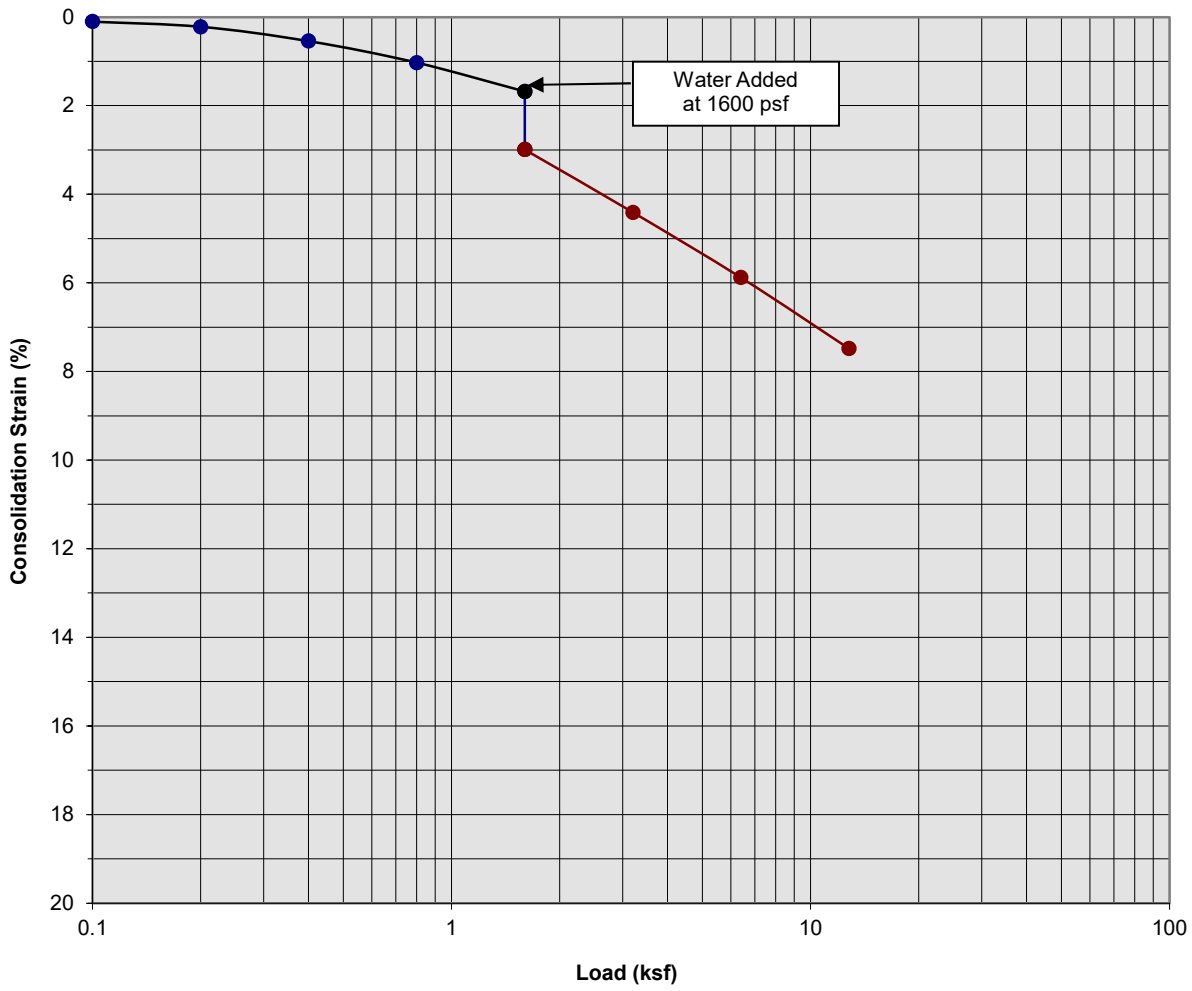
Boring Number:	B-24	Initial Moisture Content (%)	4
Sample Number:	---	Final Moisture Content (%)	13
Depth (ft)	7 to 8	Initial Dry Density (pcf)	119.1
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	126.3
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.23

Proposed C/I Development
Rancho Cucamonga, California
Project No. 20G207-1

PLATE C-7

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Light Gray Brown to Gray Brown Silty fine Sand

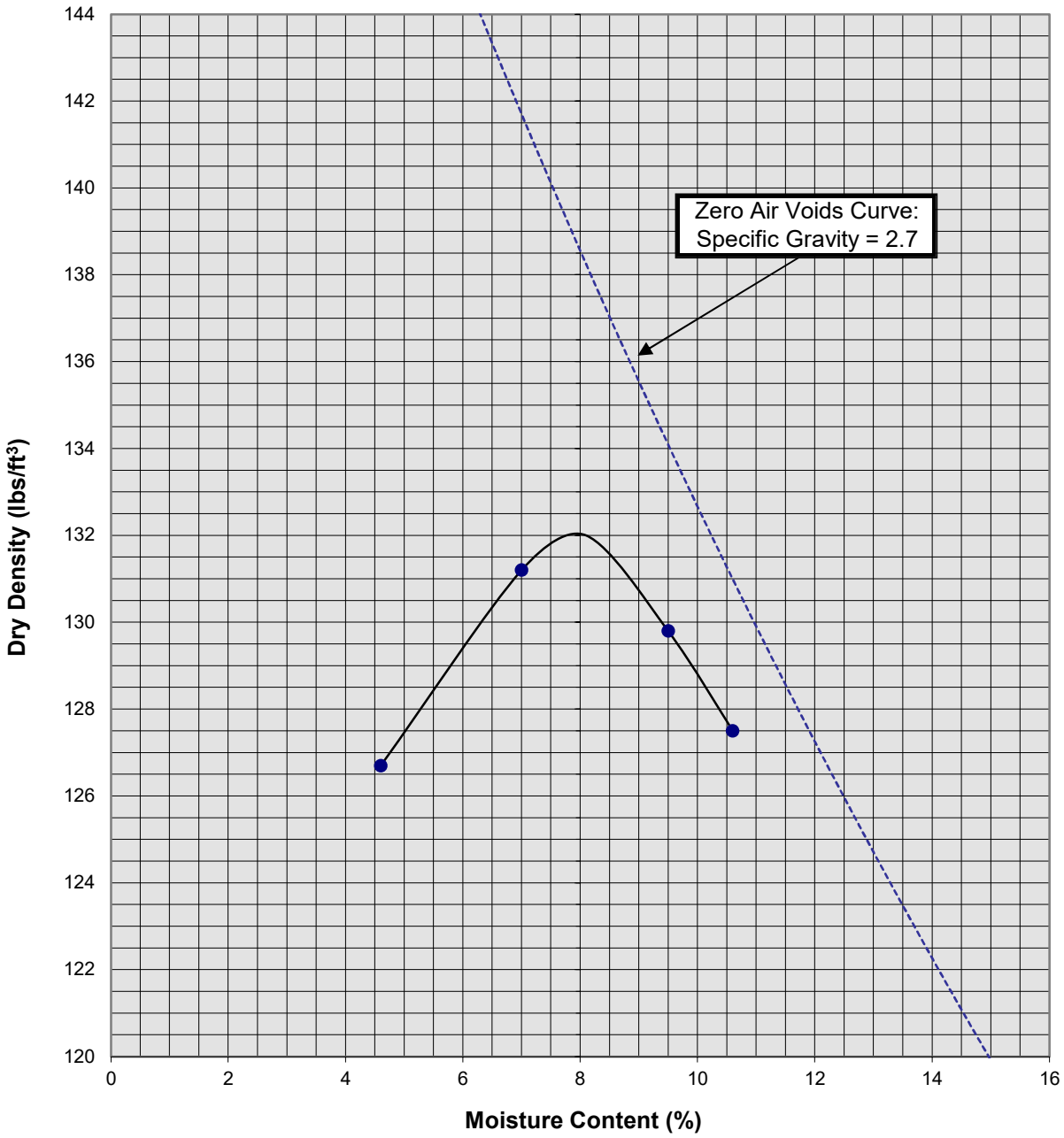
Boring Number:	B-24	Initial Moisture Content (%)	6
Sample Number:	---	Final Moisture Content (%)	15
Depth (ft)	9 to 10	Initial Dry Density (pcf)	119.4
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	128.4
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.31

Proposed C/I Development
Rancho Cucamonga, California
Project No. 20G207-1

PLATE C-8

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Moisture/Density Relationship
ASTM D-1557



Soil ID Number	B-17 @ 1 to 5'
Optimum Moisture (%)	8
Maximum Dry Density (pcf)	132
Soil Classification	Gray Brown Silty fine to medium Sand, trace fine Gravel

Proposed C/I Development
Rancho Cucamonga, CA
Project No. 20G207-1

PLATE C-9

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

APPENDIX D

GRADING GUIDE SPECIFICATIONS

These grading guide specifications are intended to provide typical procedures for grading operations. They are intended to supplement the recommendations contained in the geotechnical investigation report for this project. Should the recommendations in the geotechnical investigation report conflict with the grading guide specifications, the more site specific recommendations in the geotechnical investigation report will govern.

General

- The Earthwork Contractor is responsible for the satisfactory completion of all earthwork in accordance with the plans and geotechnical reports, and in accordance with city, county, and applicable building codes.

- The Geotechnical Engineer is the representative of the Owner/Builder for the purpose of implementing the report recommendations and guidelines. These duties are not intended to relieve the Earthwork Contractor of any responsibility to perform in a workman-like manner, nor is the Geotechnical Engineer to direct the grading equipment or personnel employed by the Contractor.

- The Earthwork Contractor is required to notify the Geotechnical Engineer of the anticipated work and schedule so that testing and inspections can be provided. If necessary, work may be stopped and redone if personnel have not been scheduled in advance.

- The Earthwork Contractor is required to have suitable and sufficient equipment on the job-site to process, moisture condition, mix and compact the amount of fill being placed to the approved compaction. In addition, suitable support equipment should be available to conform with recommendations and guidelines in this report.

- Canyon cleanouts, overexcavation areas, processed ground to receive fill, key excavations, subdrains and benches should be observed by the Geotechnical Engineer prior to placement of any fill. It is the Earthwork Contractor's responsibility to notify the Geotechnical Engineer of areas that are ready for inspection.

- Excavation, filling, and subgrade preparation should be performed in a manner and sequence that will provide drainage at all times and proper control of erosion. Precipitation, springs, and seepage water encountered shall be pumped or drained to provide a suitable working surface. The Geotechnical Engineer must be informed of springs or water seepage encountered during grading or foundation construction for possible revision to the recommended construction procedures and/or installation of subdrains.

Site Preparation

- The Earthwork Contractor is responsible for all clearing, grubbing, stripping and site preparation for the project in accordance with the recommendations of the Geotechnical Engineer.

- If any materials or areas are encountered by the Earthwork Contractor which are suspected of having toxic or environmentally sensitive contamination, the Geotechnical Engineer and Owner/Builder should be notified immediately.

- Major vegetation should be stripped and disposed of off-site. This includes trees, brush, heavy grasses and any materials considered unsuitable by the Geotechnical Engineer.

- Underground structures such as basements, cesspools or septic disposal systems, mining shafts, tunnels, wells and pipelines should be removed under the inspection of the Geotechnical Engineer and recommendations provided by the Geotechnical Engineer and/or city, county or state agencies. If such structures are known or found, the Geotechnical Engineer should be notified as soon as possible so that recommendations can be formulated.

- Any topsoil, slopewash, colluvium, alluvium and rock materials which are considered unsuitable by the Geotechnical Engineer should be removed prior to fill placement.

- Remaining voids created during site clearing caused by removal of trees, foundations basements, irrigation facilities, etc., should be excavated and filled with compacted fill.

- Subsequent to clearing and removals, areas to receive fill should be scarified to a depth of 10 to 12 inches, moisture conditioned and compacted

- The moisture condition of the processed ground should be at or slightly above the optimum moisture content as determined by the Geotechnical Engineer. Depending upon field conditions, this may require air drying or watering together with mixing and/or discing.

Compacted Fills

- Soil materials imported to or excavated on the property may be utilized in the fill, provided each material has been determined to be suitable in the opinion of the Geotechnical Engineer. Unless otherwise approved by the Geotechnical Engineer, all fill materials shall be free of deleterious, organic, or frozen matter, shall contain no chemicals that may result in the material being classified as “contaminated,” and shall be very low to non-expansive with a maximum expansion index (EI) of 50. The top 12 inches of the compacted fill should have a maximum particle size of 3 inches, and all underlying compacted fill material a maximum 6-inch particle size, except as noted below.

- All soils should be evaluated and tested by the Geotechnical Engineer. Materials with high expansion potential, low strength, poor gradation or containing organic materials may require removal from the site or selective placement and/or mixing to the satisfaction of the Geotechnical Engineer.

- Rock fragments or rocks less than 6 inches in their largest dimensions, or as otherwise determined by the Geotechnical Engineer, may be used in compacted fill, provided the distribution and placement is satisfactory in the opinion of the Geotechnical Engineer.

- Rock fragments or rocks greater than 12 inches should be taken off-site or placed in accordance with recommendations and in areas designated as suitable by the Geotechnical Engineer. These materials should be placed in accordance with Plate D-8 of these Grading Guide Specifications and in accordance with the following recommendations:

    - Rocks 12 inches or more in diameter should be placed in rows at least 15 feet apart, 15 feet from the edge of the fill, and 10 feet or more below subgrade. Spaces should be left between each rock fragment to provide for placement and compaction of soil around the fragments.

    - Fill materials consisting of soil meeting the minimum moisture content requirements and free of oversize material should be placed between and over the rows of rock or

concrete. Ample water and compactive effort should be applied to the fill materials as they are placed in order that all of the voids between each of the fragments are filled and compacted to the specified density.

- Subsequent rows of rocks should be placed such that they are not directly above a row placed in the previous lift of fill. A minimum 5-foot offset between rows is recommended.

- To facilitate future trenching, oversized material should not be placed within the range of foundation excavations, future utilities or other underground construction unless specifically approved by the soil engineer and the developer/owner representative.

- Fill materials approved by the Geotechnical Engineer should be placed in areas previously prepared to receive fill and in evenly placed, near horizontal layers at about 6 to 8 inches in loose thickness, or as otherwise determined by the Geotechnical Engineer for the project.

- Each layer should be moisture conditioned to optimum moisture content, or slightly above, as directed by the Geotechnical Engineer. After proper mixing and/or drying, to evenly distribute the moisture, the layers should be compacted to at least 90 percent of the maximum dry density in compliance with ASTM D-1557-78 unless otherwise indicated.

- Density and moisture content testing should be performed by the Geotechnical Engineer at random intervals and locations as determined by the Geotechnical Engineer. These tests are intended as an aid to the Earthwork Contractor, so he can evaluate his workmanship, equipment effectiveness and site conditions. The Earthwork Contractor is responsible for compaction as required by the Geotechnical Report(s) and governmental agencies.

- Fill areas unused for a period of time may require moisture conditioning, processing and recompaction prior to the start of additional filling. The Earthwork Contractor should notify the Geotechnical Engineer of his intent so that an evaluation can be made.

- Fill placed on ground sloping at a 5-to-1 inclination (horizontal-to-vertical) or steeper should be benched into bedrock or other suitable materials, as directed by the Geotechnical Engineer. Typical details of benching are illustrated on Plates D-2, D-4, and D-5.

- Cut/fill transition lots should have the cut portion overexcavated to a depth of at least 3 feet and rebuilt with fill (see Plate D-1), as determined by the Geotechnical Engineer.

- All cut lots should be inspected by the Geotechnical Engineer for fracturing and other bedrock conditions. If necessary, the pads should be overexcavated to a depth of 3 feet and rebuilt with a uniform, more cohesive soil type to impede moisture penetration.

- Cut portions of pad areas above buttresses or stabilizations should be overexcavated to a depth of 3 feet and rebuilt with uniform, more cohesive compacted fill to impede moisture penetration.

- Non-structural fill adjacent to structural fill should typically be placed in unison to provide lateral support. Backfill along walls must be placed and compacted with care to ensure that excessive unbalanced lateral pressures do not develop. The type of fill material placed adjacent to below grade walls must be properly tested and approved by the Geotechnical Engineer with consideration of the lateral earth pressure used in the design.

Foundations

- The foundation influence zone is defined as extending one foot horizontally from the outside edge of a footing, and proceeding downward at a ½ horizontal to 1 vertical (0.5:1) inclination.

- Where overexcavation beneath a footing subgrade is necessary, it should be conducted so as to encompass the entire foundation influence zone, as described above.

- Compacted fill adjacent to exterior footings should extend at least 12 inches above foundation bearing grade. Compacted fill within the interior of structures should extend to the floor subgrade elevation.

Fill Slopes

- The placement and compaction of fill described above applies to all fill slopes. Slope compaction should be accomplished by overfilling the slope, adequately compacting the fill in even layers, including the overfilled zone and cutting the slope back to expose the compacted core

- Slope compaction may also be achieved by backrolling the slope adequately every 2 to 4 vertical feet during the filling process as well as requiring the earth moving and compaction equipment to work close to the top of the slope. Upon completion of slope construction, the slope face should be compacted with a sheepsfoot connected to a sideboom and then grid rolled. This method of slope compaction should only be used if approved by the Geotechnical Engineer.

- Sandy soils lacking in adequate cohesion may be unstable for a finished slope condition and therefore should not be placed within 15 horizontal feet of the slope face.

- All fill slopes should be keyed into bedrock or other suitable material. Fill keys should be at least 15 feet wide and inclined at 2 percent into the slope. For slopes higher than 30 feet, the fill key width should be equal to one-half the height of the slope (see Plate D-5).

- All fill keys should be cleared of loose slough material prior to geotechnical inspection and should be approved by the Geotechnical Engineer and governmental agencies prior to filling.

- The cut portion of fill over cut slopes should be made first and inspected by the Geotechnical Engineer for possible stabilization requirements. The fill portion should be adequately keyed through all surficial soils and into bedrock or suitable material. Soils should be removed from the transition zone between the cut and fill portions (see Plate D-2).

Cut Slopes

- All cut slopes should be inspected by the Geotechnical Engineer to determine the need for stabilization. The Earthwork Contractor should notify the Geotechnical Engineer when slope cutting is in progress at intervals of 10 vertical feet. Failure to notify may result in a delay in recommendations.

- Cut slopes exposing loose, cohesionless sands should be reported to the Geotechnical Engineer for possible stabilization recommendations.

- All stabilization excavations should be cleared of loose slough material prior to geotechnical inspection. Stakes should be provided by the Civil Engineer to verify the location and dimensions of the key. A typical stabilization fill detail is shown on Plate D-5.

- Stabilization key excavations should be provided with subdrains. Typical subdrain details are shown on Plates D-6.

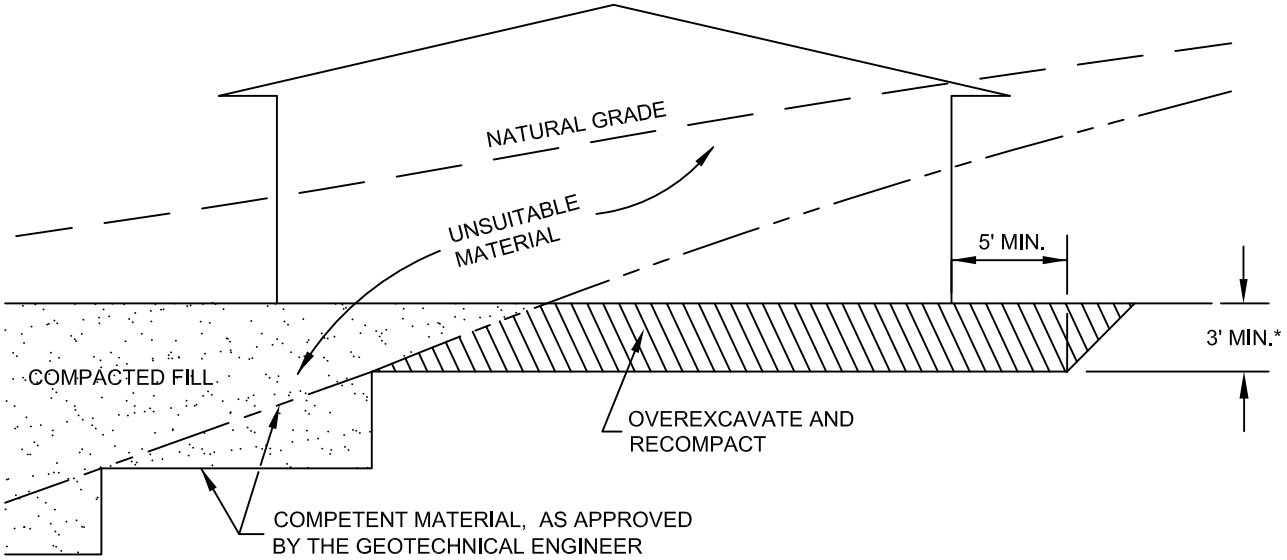
Subdrains

- Subdrains may be required in canyons and swales where fill placement is proposed. Typical subdrain details for canyons are shown on Plate D-3. Subdrains should be installed after approval of removals and before filling, as determined by the Soils Engineer.

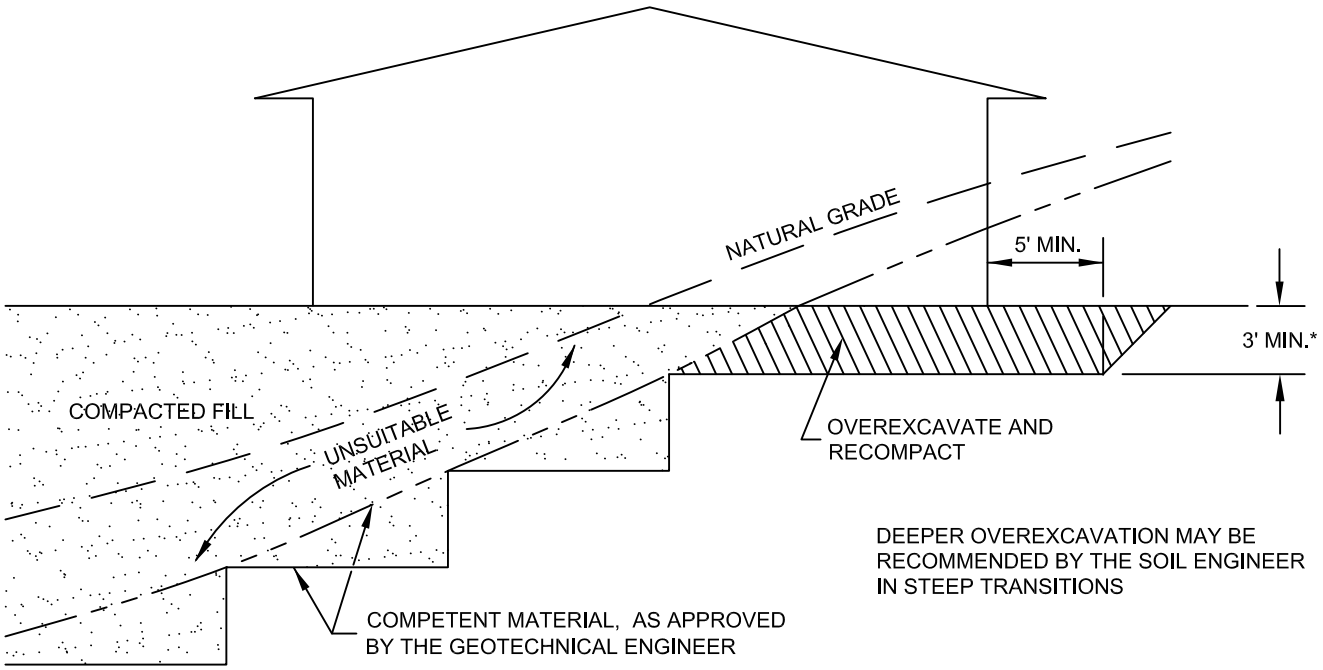
- Plastic pipe may be used for subdrains provided it is Schedule 40 or SDR 35 or equivalent. Pipe should be protected against breakage, typically by placement in a square-cut (backhoe) trench or as recommended by the manufacturer.

- Filter material for subdrains should conform to CALTRANS Specification 68-1.025 or as approved by the Geotechnical Engineer for the specific site conditions. Clean ¾-inch crushed rock may be used provided it is wrapped in an acceptable filter cloth and approved by the Geotechnical Engineer. Pipe diameters should be 6 inches for runs up to 500 feet and 8 inches for the downstream continuations of longer runs. Four-inch diameter pipe may be used in buttress and stabilization fills.

CUT LOT



CUT/FILL LOT (TRANSITION)



*SEE TEXT OF REPORT FOR SPECIFIC RECOMMENDATION. ACTUAL DEPTH OF OVEREXCAVATION MAY BE GREATER.

TRANSITION LOT DETAIL

GRADING GUIDE SPECIFICATIONS

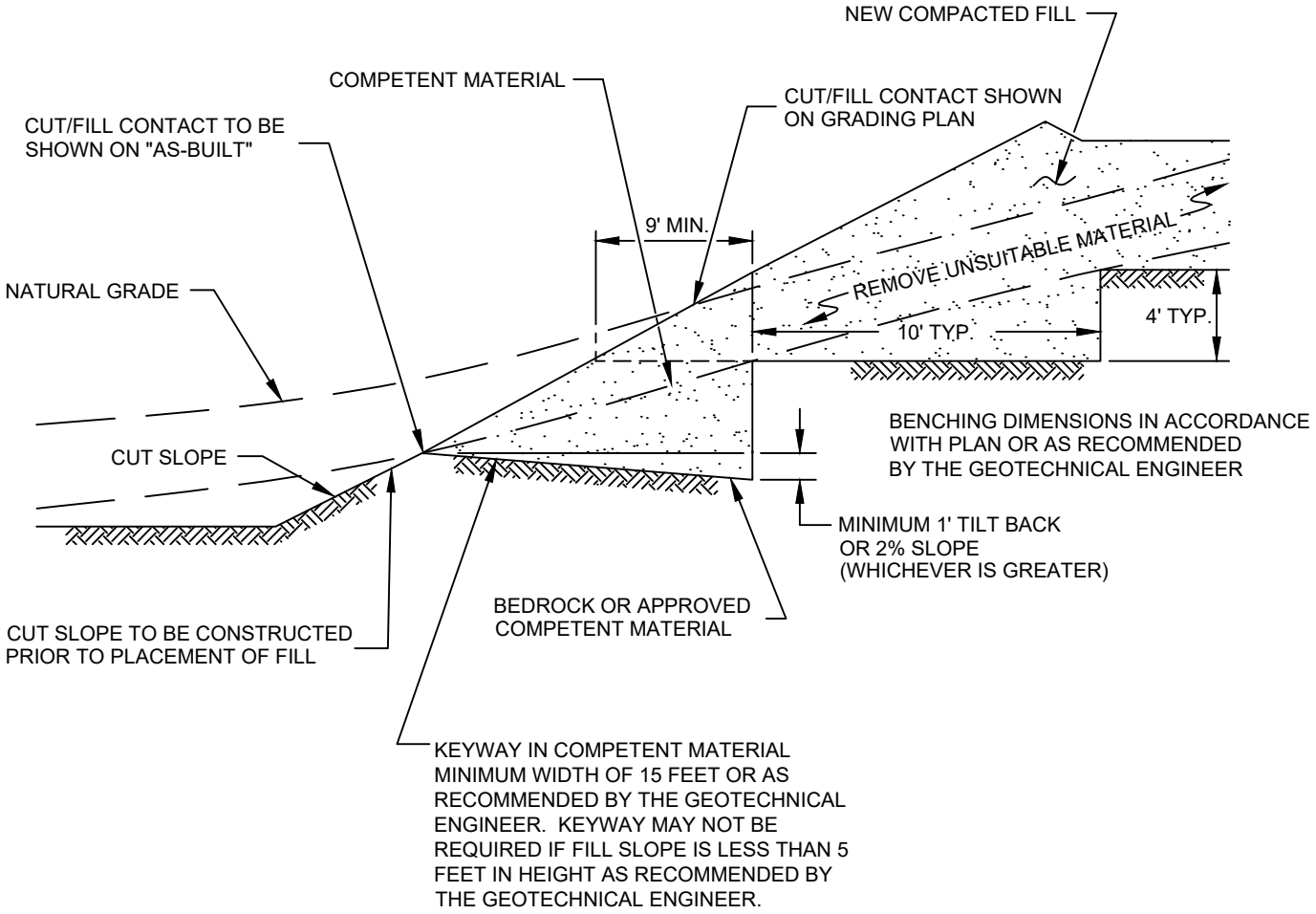
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-1

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



FILL ABOVE CUT SLOPE DETAIL

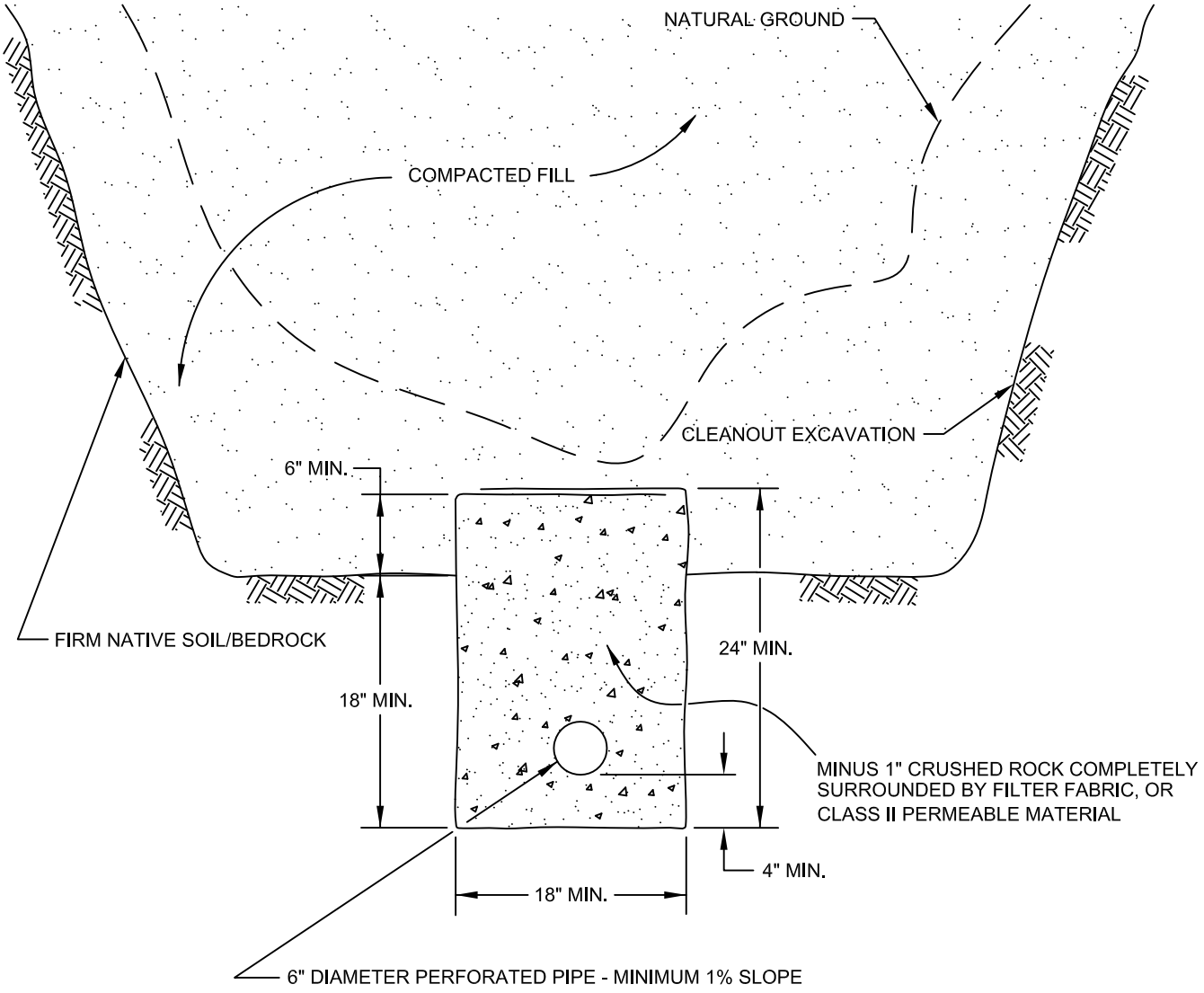
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



PIPE MATERIAL	DEPTH OF FILL OVER SUBDRAIN
ADS (CORRUGATED POLETHYLENE)	8
TRANSITE UNDERDRAIN	20
PVC OR ABS: SDR 35	35
SDR 21	100

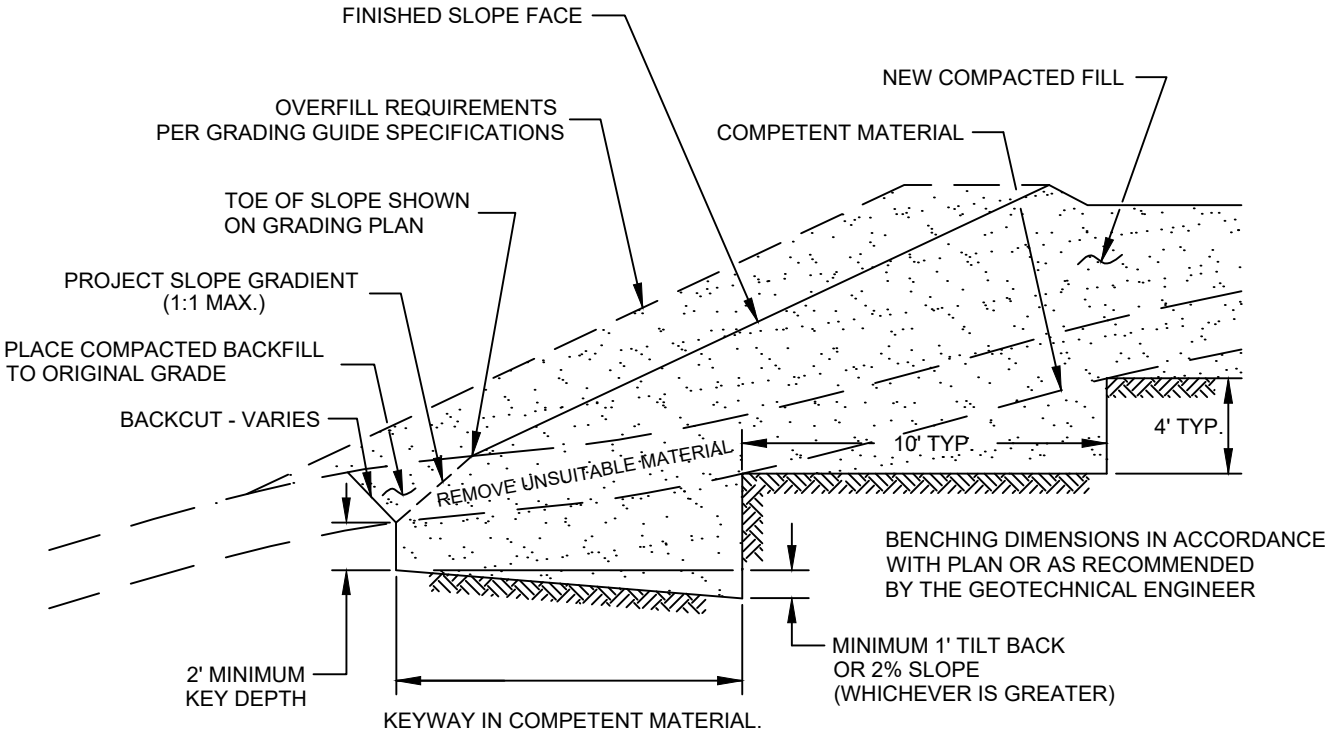
SCHEMATIC ONLY
NOT TO SCALE

CANYON SUBDRAIN DETAIL
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE
DRAWN: JAS
CHKD: GKM

PLATE D-3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



NOTE:
BENCHING SHALL BE REQUIRED WHEN NATURAL SLOPES ARE EQUAL TO OR STEEPER THAN 5:1 OR WHEN RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

FILL ABOVE NATURAL SLOPE DETAIL

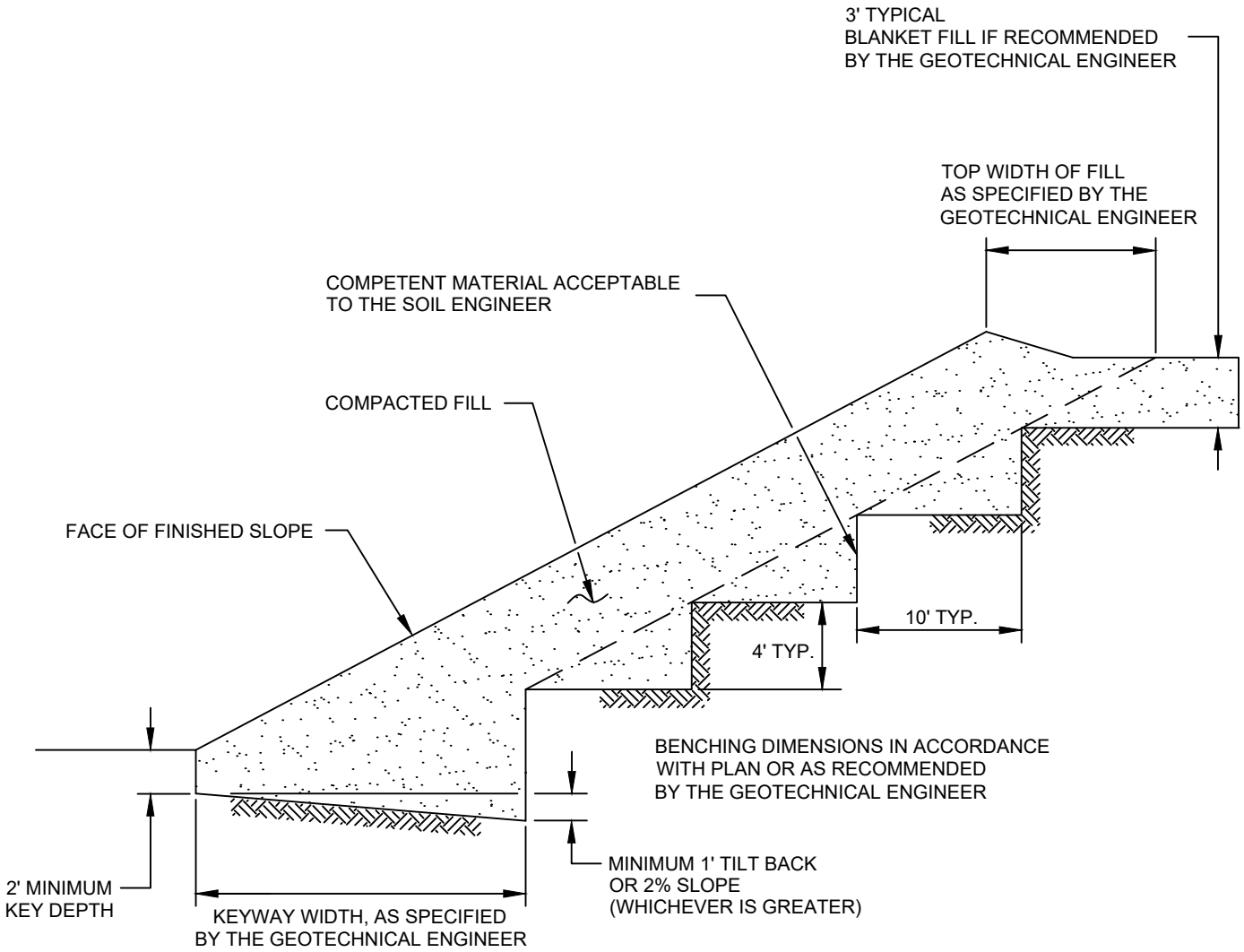
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-4

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



STABILIZATION FILL DETAIL

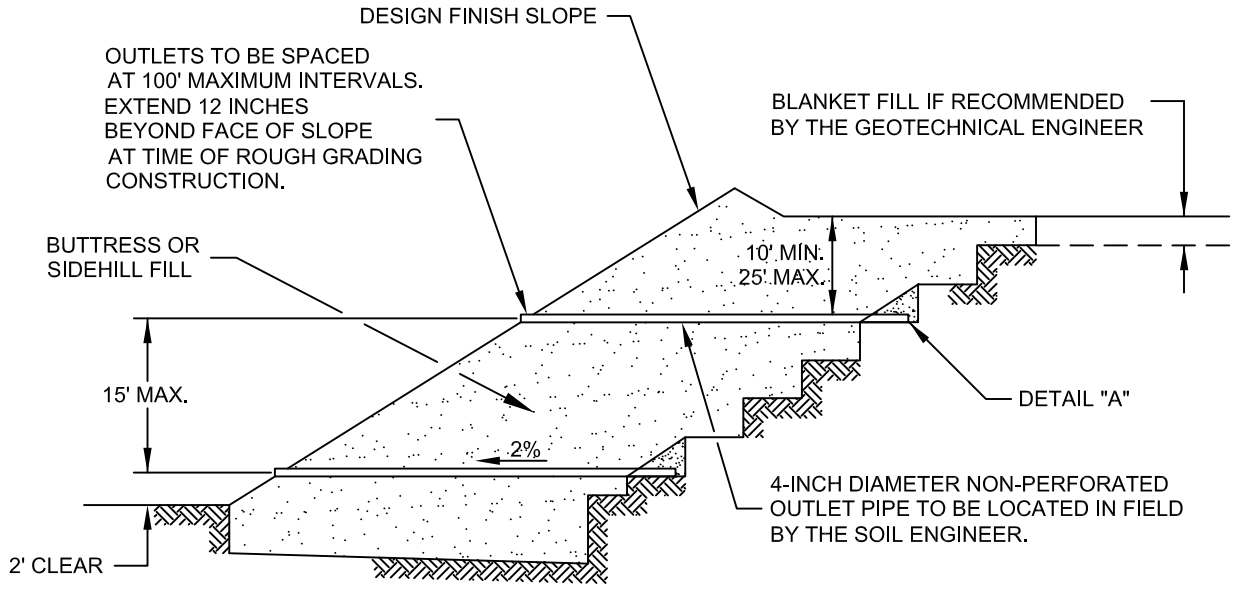
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-5

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



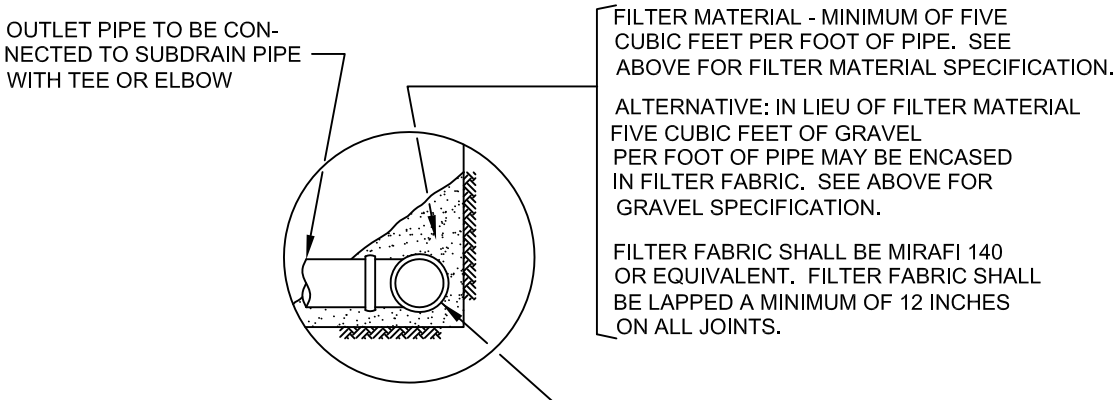
"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50



DETAIL "A"

NOTES:
1. TRENCH FOR OUTLET PIPES TO BE BACKFILLED WITH ON-SITE SOIL.

SLOPE FILL SUBDRAINS

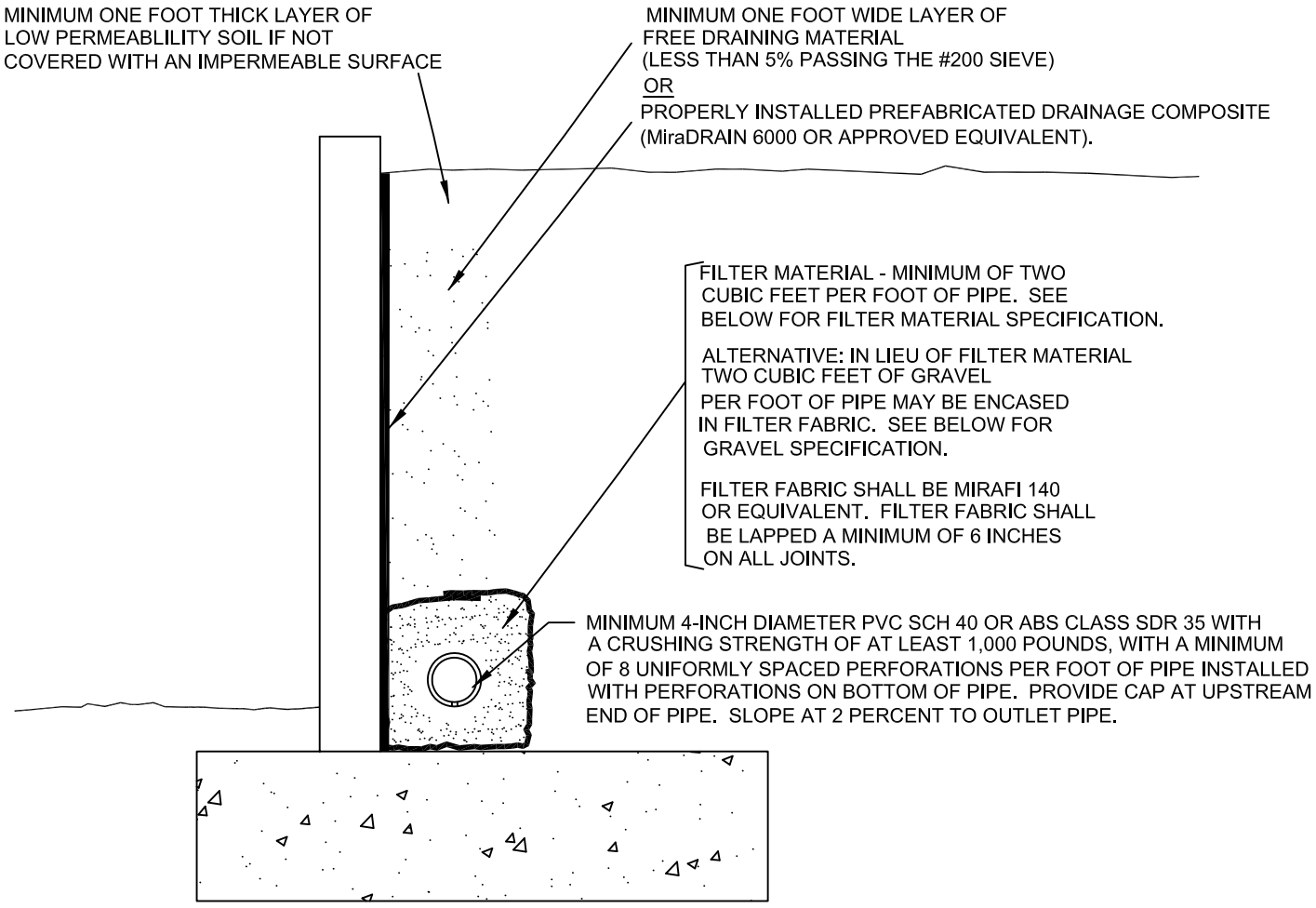
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-6

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50

RETAINING WALL BACKDRAINS

GRADING GUIDE SPECIFICATIONS

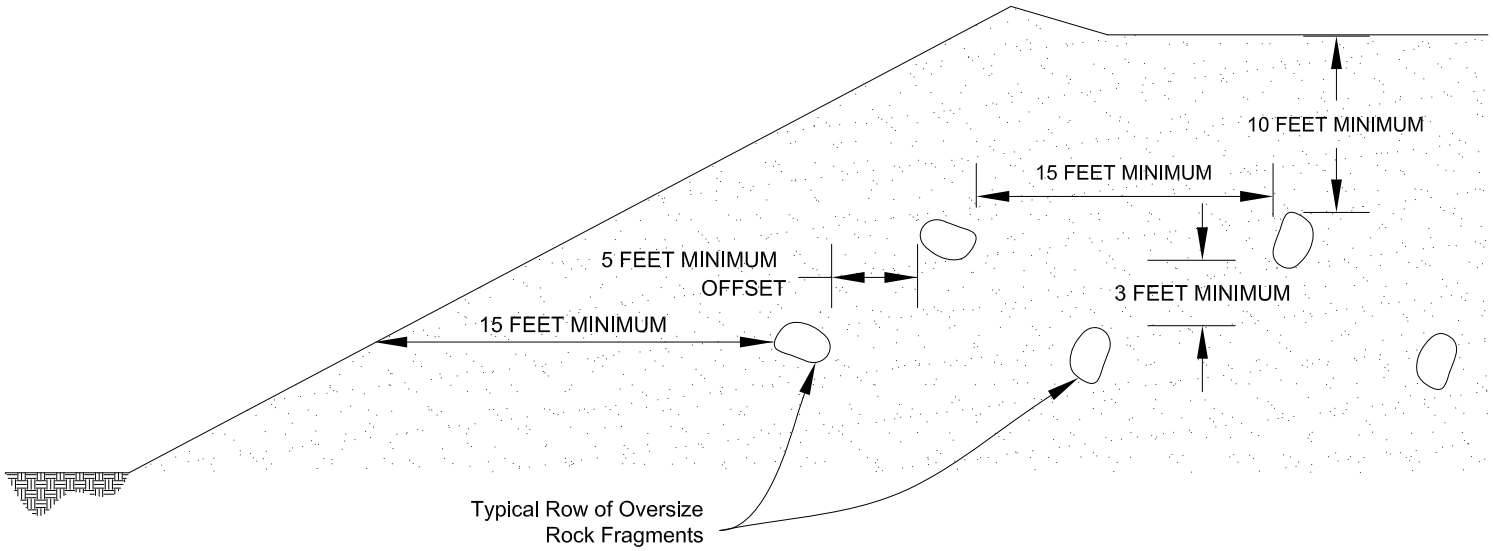
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

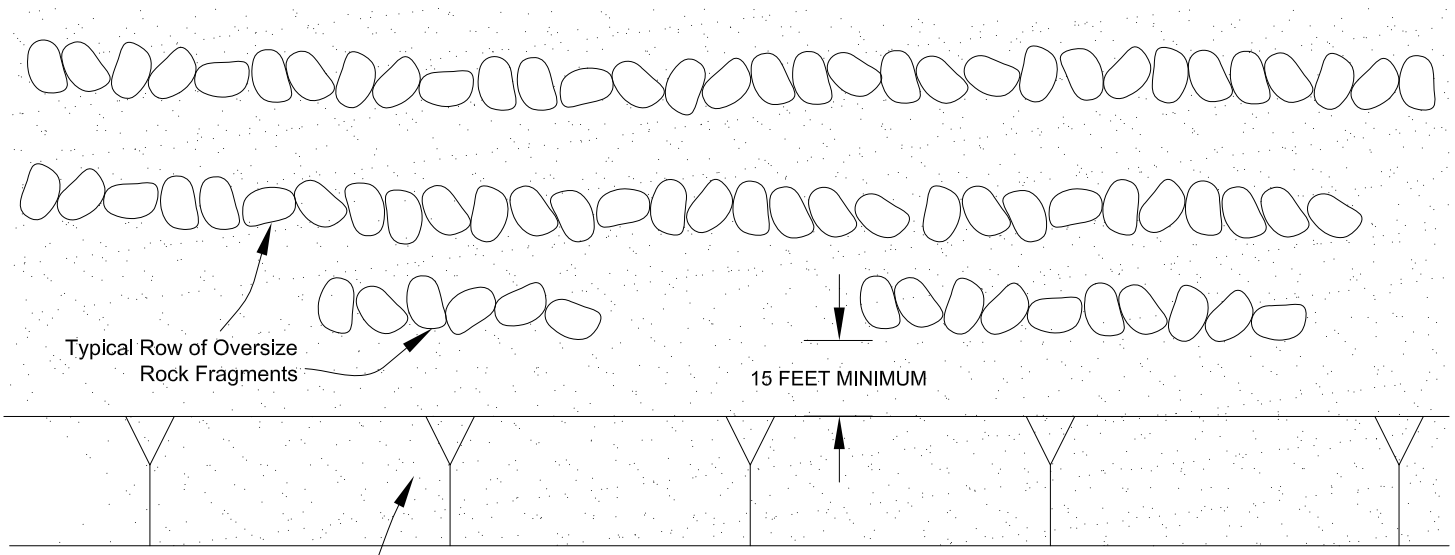
PLATE D-7

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



Section View



Plan View

PLACEMENT OF OVERSIZED MATERIAL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: PM
CHKD: GKM

PLATE D-8

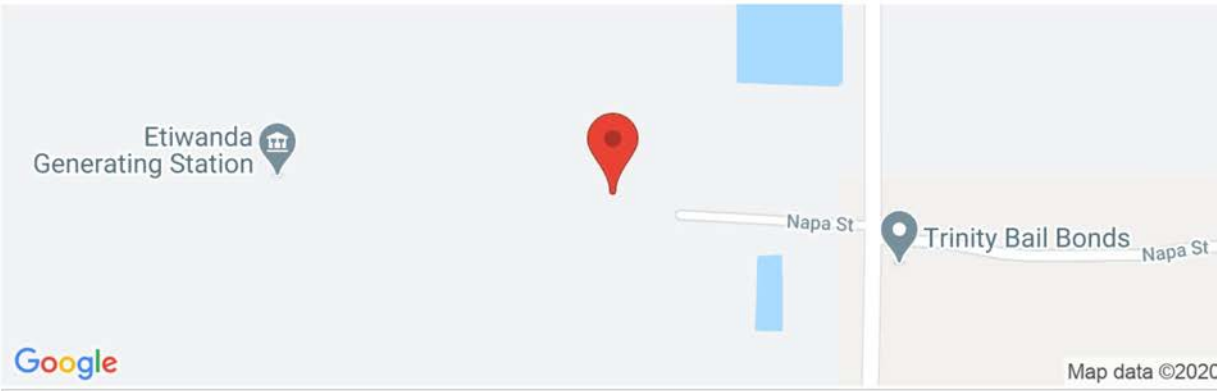
SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX E

OSHPD

Latitude, Longitude: 34.090267, -117.526740



Date	10/23/2020, 12:30:39 PM
Design Code Reference Document	ASCE7-16
Risk Category	III
Site Class	D - Stiff Soil

Type	Value	Description
S_S	1.762	MCE_R ground motion. (for 0.2 second period)
S_1	0.655	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.762	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	1.175	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.749	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.824	Site modified peak ground acceleration
T_L	12	Long-period transition period in seconds
SsRT	1.762	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	1.885	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	2.02	Factored deterministic acceleration value. (0.2 second)
S1RT	0.658	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.722	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.655	Factored deterministic acceleration value. (1.0 second)
PGAd	0.823	Factored deterministic acceleration value. (Peak Ground Acceleration)
C_{RS}	0.935	Mapped value of the risk coefficient at short periods
C_{R1}	0.911	Mapped value of the risk coefficient at a period of 1 s

SOURCE: SEAOC/OSHPD Seismic Design Maps Tool
<https://seismicmaps.org/>

SEISMIC DESIGN PARAMETERS

PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

RANCHO CUCAMONGA, CALIFORNIA

DRAWN: OS
CHKD: RGT

SCG PROJECT
20G207-1

PLATE E-1

SoCalGeo SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX F

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-1

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/5/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 19 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		13			FILL: Dark Brown fine Sandy Silt, some organic fibers, loose-very moist	61	45					Organic Content = 23.6%
		7			FILL: Dark Gray Brown Silty fine Sand to fine Sandy Silt, trace fine Gravel, some organic fibers, loose-very moist	49	77					Organic Content = 17.0%
5		9			ALLUVIUM: Gray Brown Silty fine Sand, trace fine Gravel, loose-damp	101	5					Organic Content = 1.0%
		17			Gray Brown fine to medium Sand, trace fine to coarse Gravel, trace coarse Sand, medium dense-damp	112	7					
10		18				115	5					
		13			Brown Silty fine Sand, trace medium to coarse Sand with interbedded fine Sandy Clay lenses, medium dense-very moist		15					
15												
		12			Light Brown fine Sandy Silt, trace fine Gravel, medium dense-very moist		15					
20												
		21			Light Brown fine Sand, little Silt, trace coarse Sand, trace fine Gravel, medium dense-moist		8					
25												
		31			Gray Brown fine to coarse Sand, some fine to coarse Gravel, dense-damp		3					
30					Boring Terminated at 30'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG

PLATE B-1

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-2

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/5/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 13.5 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete, 5± inches Aggregate base							
		12			ALLUVIUM: Brown Silty fine Sand, trace medium Sand, medium dense-very moist		13					
					Gray Brown fine to coarse Sand, trace fine Gravel, medium dense-dry		2					
		9			Brown Silty fine Sand, trace coarse Sand, trace fine Gravel, loose to medium dense-damp		6					
5		10					7					
		13			Brown Silty fine Sand with thinly interbedded Silty Clay lenses, little calcareous veining, medium dense-very moist		17					
10												
		10			Brown fine Sandy Silt, little Clay, loose to medium dense-very moist		22					
15												
		13					20					
20					Boring Terminated at 20'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG **PLATE B-2**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-3

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/5/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 9 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					2± inch layer open-graded Gravel							
		10			ALLUVIUM: Brown Silty fine Sand, loose-moist	101	9					
		8			Brown Silty fine to medium Sand, trace coarse Sand, trace fine Gravel, loose-very moist	100	19					
5		19			Gray Brown fine to coarse Sand, trace fine to coarse Gravel, medium dense-dry to damp	112	2					
		23				99	3					
		12			Brown Silty fine Sand, trace medium to coarse Sand, loose to medium dense-damp to very moist	106	7					
10												
		13					12					
15					Boring Terminated at 25'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG **PLATE B-3**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-4

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 16 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					FILL: Light Brown to Brown Silty fine Sand, trace medium to coarse Sand, medium dense-dry		2					Hand Auger Upper 5± feet
					ALLUVIUM: Brown Silty fine to medium Sand, trace fine Gravel, loose to medium dense-dry to damp	101	3					
5		7			Light Brown fine to medium Sand, trace to little coarse Sand, loose-damp		3					
		5					5					
10		6			Brown fine Sand, trace Silt, trace coarse Sand, loose-moist		8					
		16			Brown Silty fine Sand, trace medium Sand, trace calcareous veining, medium dense-moist to very moist	118	10					
15		15					12					
20		20					16					
					Boring Terminated at 21½'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG **PLATE B-4**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-5

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/5/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 17.5 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					2± inch layer open-graded Gravel							
		9			FILL: Brown Silty fine Sand, trace medium to coarse Sand, some rope, mottled, loose-damp to moist		10					
		6					5					
5					ALLUVIUM: Gray Brown fine to coarse Sand, trace fine Gravel, loose-dry to damp		3					
		6					2					
					Brown fine Sand, trace Silt, trace medium to coarse Sand, loose-damp		7					
		10			Brown Silty fine Sand, trace medium Sand, trace calcareous veining, loose to medium dense-very moist		13					
10												
					Brown fine Sandy Silt, trace Calcareous veining, medium dense-very moist							
		12					17					
15												
					Brown Silty fine to medium Sand, trace coarse Sand, medium dense-moist							
		13					8					
20												
					Gray Brown fine to coarse Sand, trace fine to coarse Gravel, dense-damp							
		34					5					
25					Boring Terminated at 25'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG

PLATE B-5

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-6

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 22 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					4± inches Asphaltic concrete, No discernable Aggregate base							
					FILL: Gray Brown Silty fine to medium Sand, trace coarse Sand, trace fine Gravel, medium dense-damp to moist	109	8					Hand Auger Upper 5± feet
					ALLUVIUM: Gray Brown fine Sand, trace medium to coarse Sand, little Silt, loose-damp	96	6					
5		17			Brown fine to medium Sand, trace coarse Sand, little Silt, little fine Gravel, medium dense-moist	109	10					
		14			Gray Brown fine to coarse Sand, trace fine Gravel, loose-damp		3					Disturbed Sample
		15			Brown Silty fine Sand, trace medium Sand, trace fine Gravel, trace calcareous veining, loose to medium dense-moist	108	12					
10												
		15					9					
15												
		20			Light Brown fine Sandy Silt, trace Clay, trace calcareous veining, medium dense-moist to very moist		14					
20												
					Gray Brown fine to coarse Sand, trace to little fine to coarse Gravel, medium dense to dense-damp							
		30					5					
25												
		29					5					
30												
					Boring Terminated at 30'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG

PLATE B-6

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-7

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 12 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete, No discernable Aggregate base							
					FILL: Gray Brown Silty fine Sand to fine Sandy Silt, little medium to coarse Sand, loose to medium dense-moist	102	8					Hand Auger Upper 5± feet
					FILL: Gray Brown Silty fine Sand, trace medium Sand, little fine Gravel, loose-damp	100	6					
5		9					7					
		20	1.25		ALLUVIUM: Light Brown Clayey Silt, trace to little fine Sand, trace Calcareous veining, very stiff-moist to very moist		16					
10		14			Light Brown Silty fine Sand, medium dense-moist		9					
15		16			@ 15 feet trace fine Gravel-very moist		14					
					Boring Terminated at 16½'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG

PLATE B-7

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-8

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/5/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 7.5 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					2± inch layer open-graded Gravel							
		46			FILL: Brown fine Sand, trace Silt, trace medium to coarse Sand, trace fine to coarse Gravel, dense-damp		4					EI = 0 @ 0 to 5 feet
		11			ALLUVIUM: Light Gray Brown fine Sandy Silt, trace medium to coarse Sand, trace fine to medium Gravel, medium dense-dry to damp		3					
5		13			Gray Brown fine to coarse Sand, little fine to coarse Gravel, medium dense-dry		1					
		12			Light Brown Silty fine Sand, medium dense-damp		7					
10					Brown fine to coarse Sand, trace to little fine Gravel, medium dense-damp		4					
15		29			Gray Brown fine to coarse Sand, some fine to coarse Gravel, very dense-damp		3					
		62										
20					Boring Terminated at 16.5'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG **PLATE B-8**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-9

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 18 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete, 5± inches Aggregate base							
					FILL: Brown Silty fine to medium Sand, trace fine Gravel, loose to medium dense-moist	110	9					Hand Auger Upper 5± feet
					ALLUVIUM: Gray Brown fine to coarse Sand, some fine Gravel, medium dense-dry	117	2					
5		13			Brown fine to medium Sand, trace coarse Sand, loose-damp	103	5					
		15			Brown to Gray Brown fine Sandy Silt, loose to medium dense-very moist	102	21					
10		15				111	16					
		14			Brown Silty fine Sand, trace coarse Sand, medium dense-moist		9					
15												
		44			Gray Brown fine to coarse Sand, some fine to coarse Gravel, dense-damp		6					
20												
		21			Gray Brown fine Sand, little Silt, medium dense-moist		9					
25					Boring Terminated at 25'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG **PLATE B-9**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-10

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 24 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete, 5± inches Aggregate base							
					FILL: Brown to Gray Brown Silty fine to medium Sand, trace coarse Sand, trace fine Gravel, horizontally laminated, medium dense-damp		7					Disturbed Sample
					ALLUVIUM: Gray Brown fine to coarse Sand, trace fine Gravel, medium dense-damp	106	5					Hand Auger Upper 5± feet
5		18			Gray Brown fine to medium Sand, trace Silt, trace coarse Sand, medium dense-damp to moist		7					
		14					6					
10		13			Gray Brown Silty fine Sand with a 5-inch fine Sandy Silt lense, medium dense-very moist		20					
					Light Brown fine Sandy Silt, medium dense-very moist							
15		14					22					
20		18					16					
					Light Brown Silty fine Sand with thinly interbedded Silt lenses, medium dense-damp to very moist							
25		21					13					
30		23					7					
					Boring Terminated at 31½'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG

PLATE B-10

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-11

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 16 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete, 5± inches Aggregate base							
					FILL: Brown Silty fine Sand, trace fine Gravel, horizontally laminated, medium dense-moist	104	10					Hand Auger Upper 5± feet
					@ 3 feet Silty fine to medium Sand, mottled	107	8					
5		14			ALLUVIUM: Light Brown fine to medium Sand, loose-moist	105	11					
		8			Brown to Dark Brown fine to medium Sand, little Silt, loose-moist	102	9					
		9			Brown Silty fine to coarse Sand, trace fine Gravel, loose-very moist	103	18					
10		6			Brown Silty fine Sand to fine Sandy Silt, trace medium to coarse Sand, trace fine Gravel, loose-moist to very moist	104	11					
		8			@ 13½ feet trace fine root fibers, very moist		21					
15												
					Light Brown fine to medium Sandy Clay, very stiff-very moist							
		26	3.0				20					
20					Boring Terminated at 20'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG **PLATE B-11**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-12

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/5/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 15 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					5± inches Asphaltic concrete, 5± inches Aggregate base							
		39			FILL: Brown Silty fine Sand, trace medium to coarse Sand, little fine to coarse Gravel, occasional Cobbles, medium dense-damp to very moist		10					Disturbed Sample
		33				113	7					
5		23				116	13					
		35				114	11					
		10			ALLUVIUM: Red Brown Silty fine Sand, trace medium to coarse Sand, loose-moist	107	10					
10												
		20			Brown to Light Brown fine Sandy Silt, little Clay, medium dense-very moist		17					
15												
		15			Brown to Light Brown Silty fine Sand, trace medium to coarse Sand, medium dense-moist		8					
20					Boring Terminated at 20'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG **PLATE B-12**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-13

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 20 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete, No Discernable Aggregate base							
					FILL: Gray Brown Silty fine to medium Sand, trace coarse Sand, trace fine Gravel, medium dense-damp to moist	114	8					Hand Auger Upper 5± feet
						119	6					
5		5			ALLUVIUM: Brown Silty fine Sand, trace medium Sand, trace to little Clay, loose to medium dense-very moist		14					
		12					13					
10		10					15					
					Gray Brown fine to coarse Sand, trace to little fine to coarse Gravel, medium dense-damp							
15		23					6					
20		27					5					
25		26			@ 25 feet trace Silt		6					
					Boring Terminated at 26½'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG

PLATE B-13

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-14

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/6/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 21 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete, No discernable Aggregate base							
					FILL: Gray Brown to Light Gray Brown Silty fine to medium Sand, trace Clay, trace fine Gravel, some fine root fibers, medium dense-damp to moist	102	4					Hand Auger Upper 5± feet
						103	7					
5		25				107	8					
					ALLUVIUM: Light Brown fine to medium Sand, trace to little Silt, medium dense-damp to moist							
		22				108	7					
		24			@ 9 feet trace fine Gravel	109	6					
10												
					Light Brown Silty fine Sand, medium dense-moist							
		20					9					
15												
					Gray Brown fine to medium Sand, trace Silt, medium dense-damp							
		24					5					
20												
					Brown Silty fine Sand, trace medium Sand, medium dense-damp to moist							
		21					12					
25												
		25			@ 28½ feet little medium Sand		6					
30												
					Boring Terminated at 30'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG

PLATE B-14

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-15

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/5/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 17 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					1± inch layer open-graded Gravel							
		13			ALLUVIUM: Brown fine Sandy Silt, little Clay, loose-very moist	117	13					EI = 15 @ 0 to 5 feet
		17	4.5		Brown Clayey fine Sand to fine Sandy Clay, medium dense/stiff to very stiff-moist to very moist	114	15					
5		14			Brown Silty fine Sand, trace Clay, loose-very moist	113	13					
		21	4.5		Brown fine Sandy Clay, stiff to very stiff-moist to very moist	112	16					
		19			Brown Silty fine Sand, trace medium to coarse Sand, medium dense-moist	110	11					
10												
		15					10					
15												
					Light Gray Brown fine Sand, trace to little Silt, medium dense-damp							
		24					5					
20					Boring Terminated at 20'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG **PLATE B-15**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-16

JOB NO.: 19G174
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, California

DRILLING DATE: 8/5/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: Dry
CAVE DEPTH: 20 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					4± inches Asphaltic concrete, 5± inches Aggregate base							
		8			ALLUVIUM: Brown Silty fine Sand, trace medium Sand, loose-moist		13					
		10	2.25		Brown Clayey fine Sand to fine Sandy Clay, trace coarse Sand, loose to medium dense/medium stiff to stiff-moist		14					
5		5			Brown Silty fine Sand, trace Clay, loose-moist		14					
		14			@ 8½ feet little fine Gravel, medium dense		12					
10												
		16			Light Brown Silty fine Sand, medium dense-moist		12					
15												
		20			@ 18½ feet trace medium Sand		10					
20												
		18			Light Brown Silty fine Sand to fine Sandy Silt, medium dense-very moist		21					
25					Boring Terminated at 25'							

TBL 19G174.GPJ SOCALGEO.GDT 8/27/19

TEST BORING LOG **PLATE B-16**

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-1

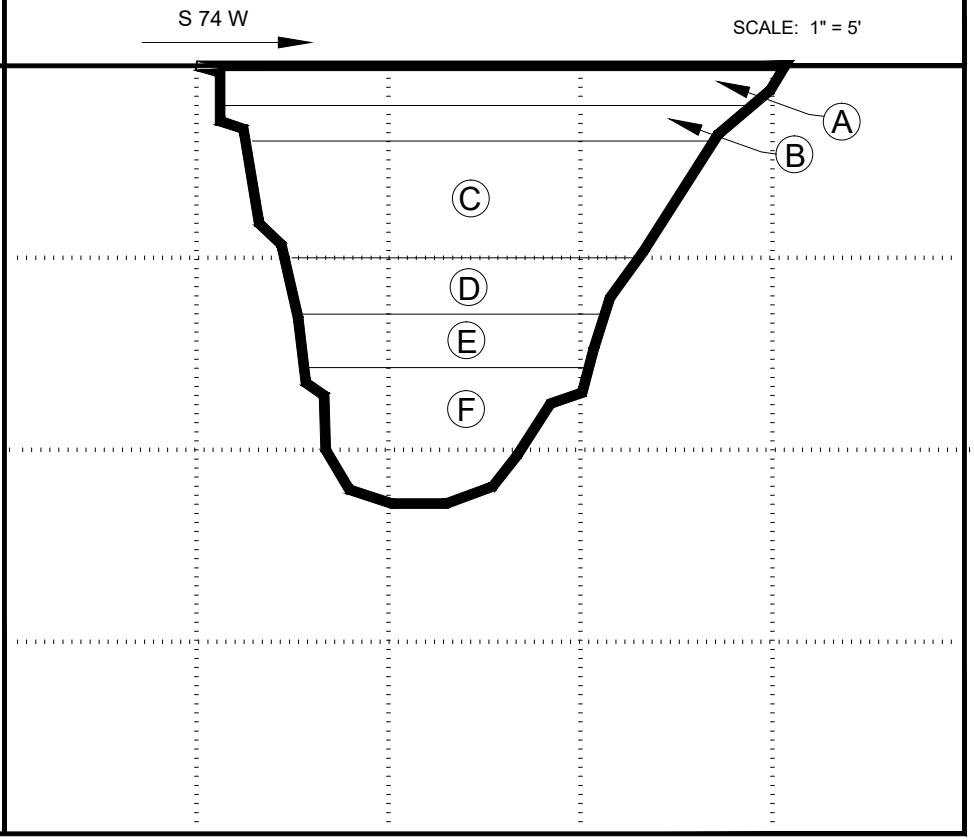
JOB NO.: 19G174-1
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, CA
DATE: 8-7-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Jamie Hayward
ORIENTATION: S 74 W
ELEVATION: -

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		1	A: FILL: Light Gray Brown fine Sandy Silt, trace to little medium Sand, trace fine to coarse Gravel, trace fine root fibers, loose-dry
	b		2	B: FILL: Light Gray Brown, fine Sand, trace coarse Sand, trace fine to coarse Gravel, trace fine root fibers, loose-dry
	b		5	C: FILL: Light Gray Brown fine Sandy Silt, trace fine to coarse Gravel, trace fine root fibers, trace wood chips, loose-damp
5	b		2	D: ALLUVIUM: Light Gray Brown fine to medium Sand, trace Silt, little fine Gravel, loose-dry
	b		2	E: Gray Brown fine to coarse Sand, some fine to coarse Gravel, occasional Cobbles, loose-dry
	b		4	F: Brown fine Sand, little medium to coarse Sand, trace fine to coarse Gravel, medium dense-damp to moist
10	b		9	
				Trench Terminated @ 11.5 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-1

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-2

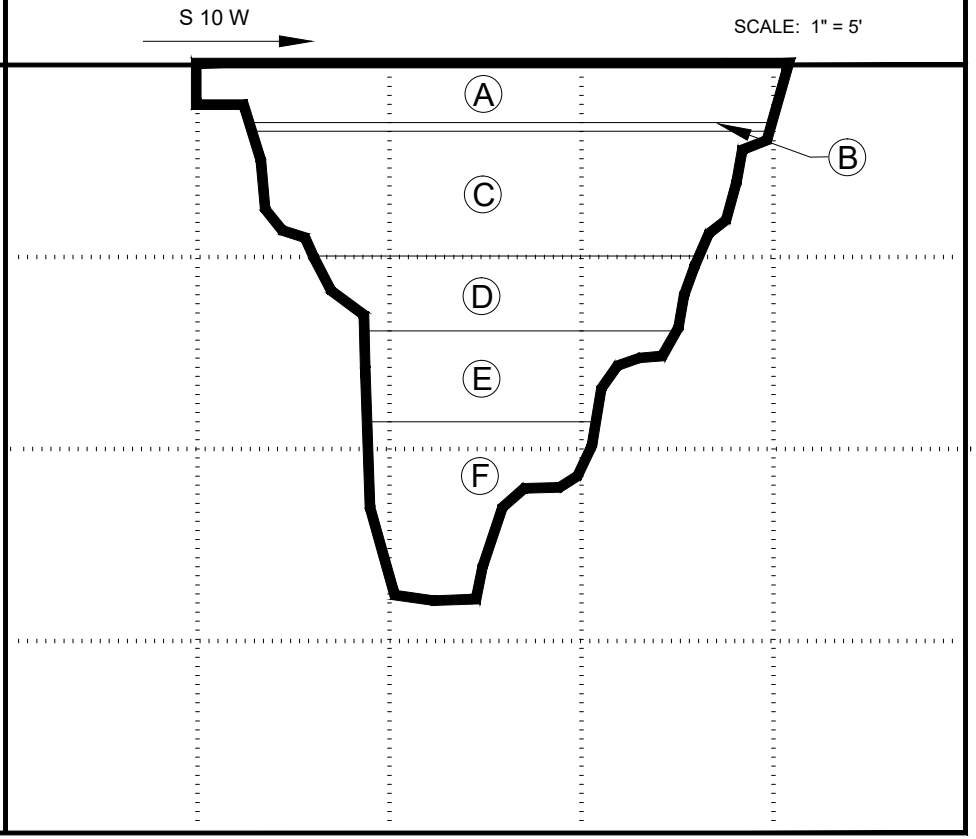
JOB NO.: 19G174-1
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, CA
DATE: 8-7-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Jamie Hayward
ORIENTATION: S 10 W
ELEVATION: -

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		1	A: FILL: Gray Brown Silty fine to medium Sand to fine to medium Sandy Silt, trace fine Gravel, trace fine root fibers, loose-dry
	b		4	B: FILL: Light Brown Silty Clay to Clayey Silt, trace fine Gravel, trace fine root fibers, medium stiff-dry to damp
	b		3	C: ALLUVIUM: Light Gray Brown Silty fine to medium Sand, little fine Gravel, occasional Cobbles, trace fine root fibers, loose-dry
5				
	b		8	D: Brown Silty fine Sand, trace medium Sand, trace fine Gravel, medium dense-moist
	b		9	E:Brown Silty fine to medium Sand, trace fine Gravel, trace coarse Sand, trace calcareous veining, medium dense-moist
10	b		11	F: Brown Silty fine Sand, trace fine Gravel, medium dense-moist
	b		8	
	b		8	
15				Trench Terminated @ 14 feet due to caving

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-2

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-3

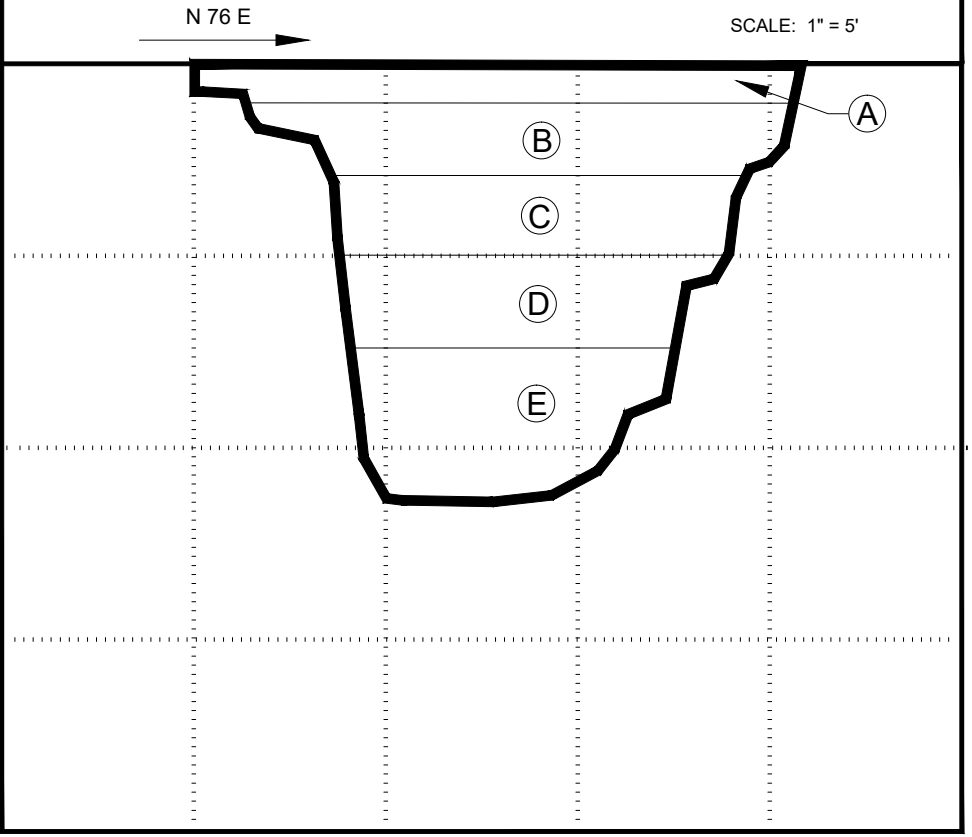
JOB NO.: 19G174-1
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, CA
DATE: 8-7-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Jamie Hayward
ORIENTATION: N 76 E
ELEVATION: -

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		4	A: ALLUVIUM: Light Gray Brown, Silty fine Sand, trace medium to coarse Sand, trace fine Gravel, trace fine root fibers, slightly porous, loose-damp
	b		8	B: Red Brown Silty fine Sand, trace medium Sand, trace fine Gravel, trace fine root fibers, slightly porous, loose-moist
	b		8	
	b		14	C: Red Brown Clayey fine to medium Sand, trace coarse Sand, medium stiff-very moist
5				
	b		13	D: Brown fine Sandy Silt to Silty fine Sand, trace medium Sand, slightly porous, medium dense-moist to very moist
	b		4	E: Gray Brown fine to coarse Sand, trace fine to coarse Gravel, occasional Cobbles, medium dense-damp
10	b		4	@ 9 feet some fine to coarse Gravel, some Cobbles
	b		3	
				Trench Terminated @ 11.5 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-3

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-4

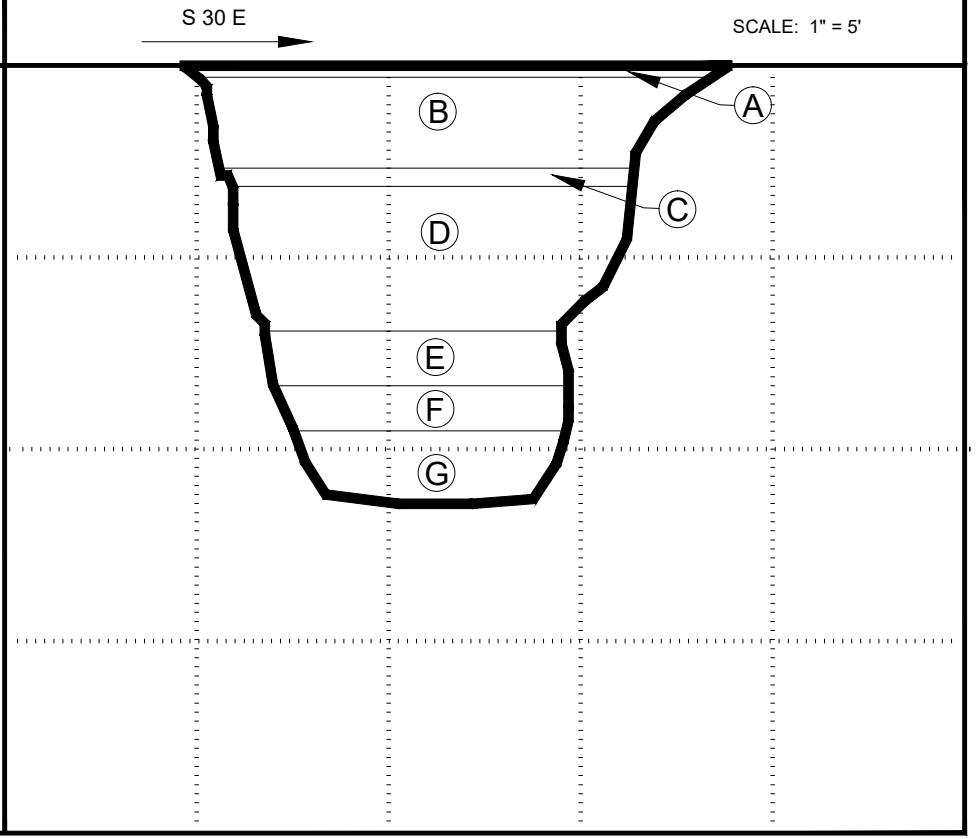
JOB NO.: 19G174-1
PROJECT: Proposed C/I Development
LOCATION: Rancho Cucamonga, CA
DATE: 8-7-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Jamie Hayward
ORIENTATION: S 30 E
ELEVATION: -

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
				A: Gravelly fine to coarse Sand, loose-dry
	b		9	B: ALLUVIUM: Brown Silty fine Sand, trace fine to coarse Gravel, trace Clay, trace charcoal, loose-moist
	b		12	C: Brown Silty fine Sand, trace medium Sand, loose-moist
	b		12	D:Brown Clayey fine Sand, trace medium to coarse Sand, trace fine to coarse Gravel, medium dense-moist
5				
	b		8	E: Light Brown fine to medium Sand, trace Silt, trace coarse Sand, trace fine Gravel, medium dense-moist
	b		13	F: Light Brown Silty fine Sand, trace medium Sand, slightly porous, medium dense-very moist
10				G: Light Brown fine Sand, trace medium Sand, little Silt, trace fine to coarse Gravel, medium dense-moist
	b		8	
				Trench Terminated @ 11 feet
15				

GRAPHIC REPRESENTATION

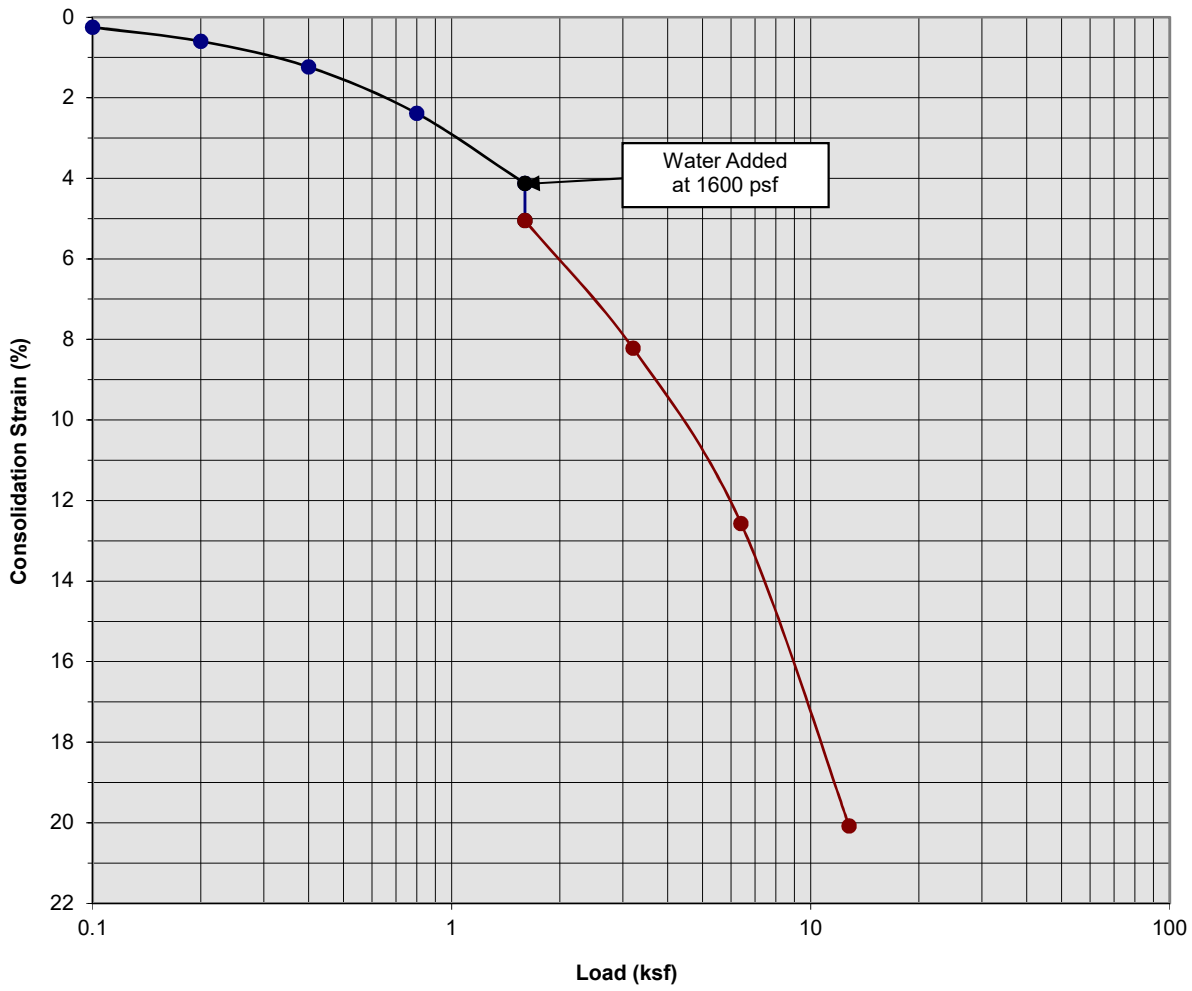


KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-4

Consolidation/Collapse Test Results



Classification: Dark Gray Brown Silty fine Sand to fine Sandy Silt

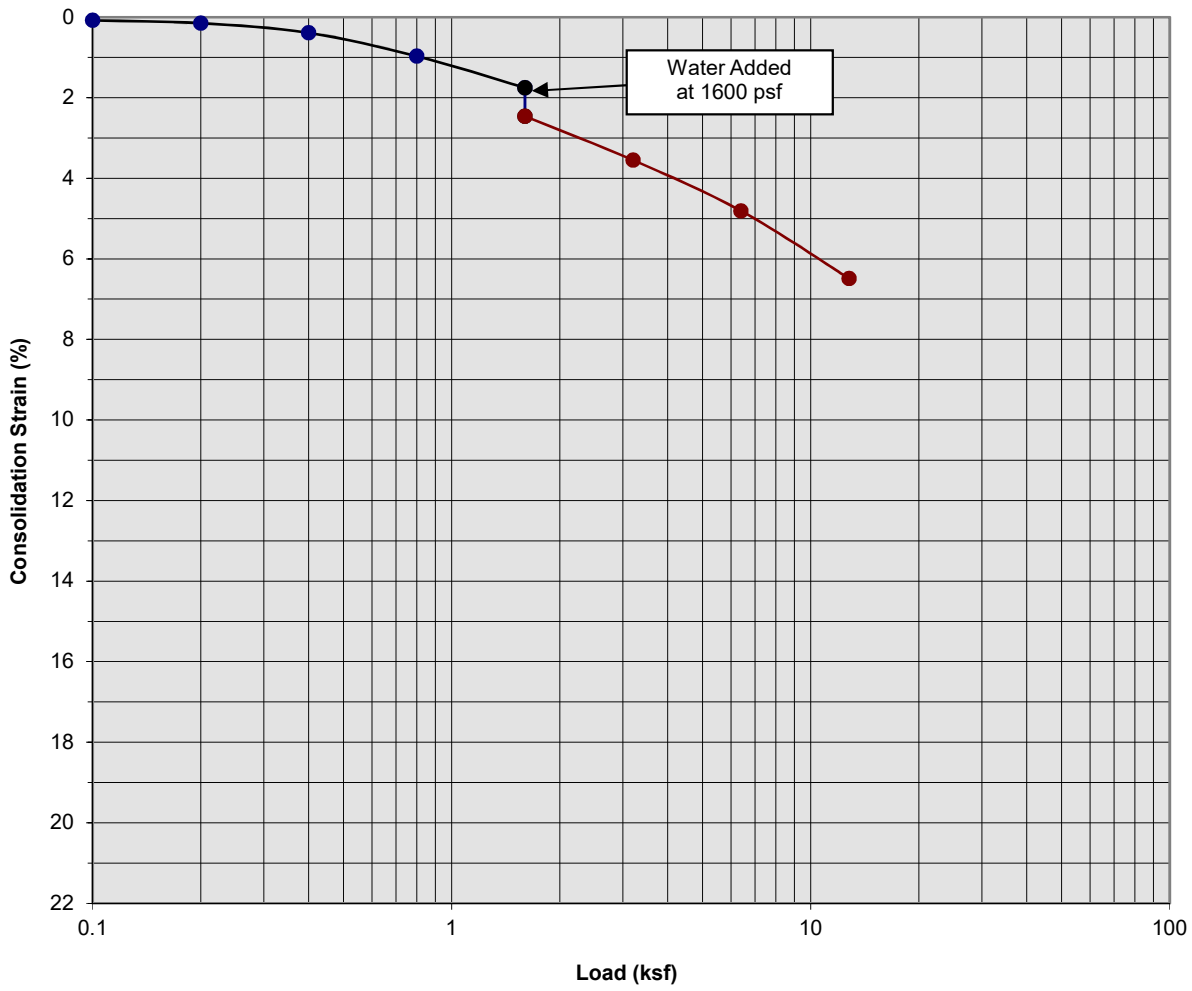
Boring Number:	B-1	Initial Moisture Content (%)	75
Sample Number:	---	Final Moisture Content (%)	71
Depth (ft)	3 to 4	Initial Dry Density (pcf)	44.7
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	55.7
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.92

Proposed C/I Lot
Rancho Cucamonga, California
Project No. 19G174-1

PLATE C- 1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown Silty fine Sand, trace fine Gravel

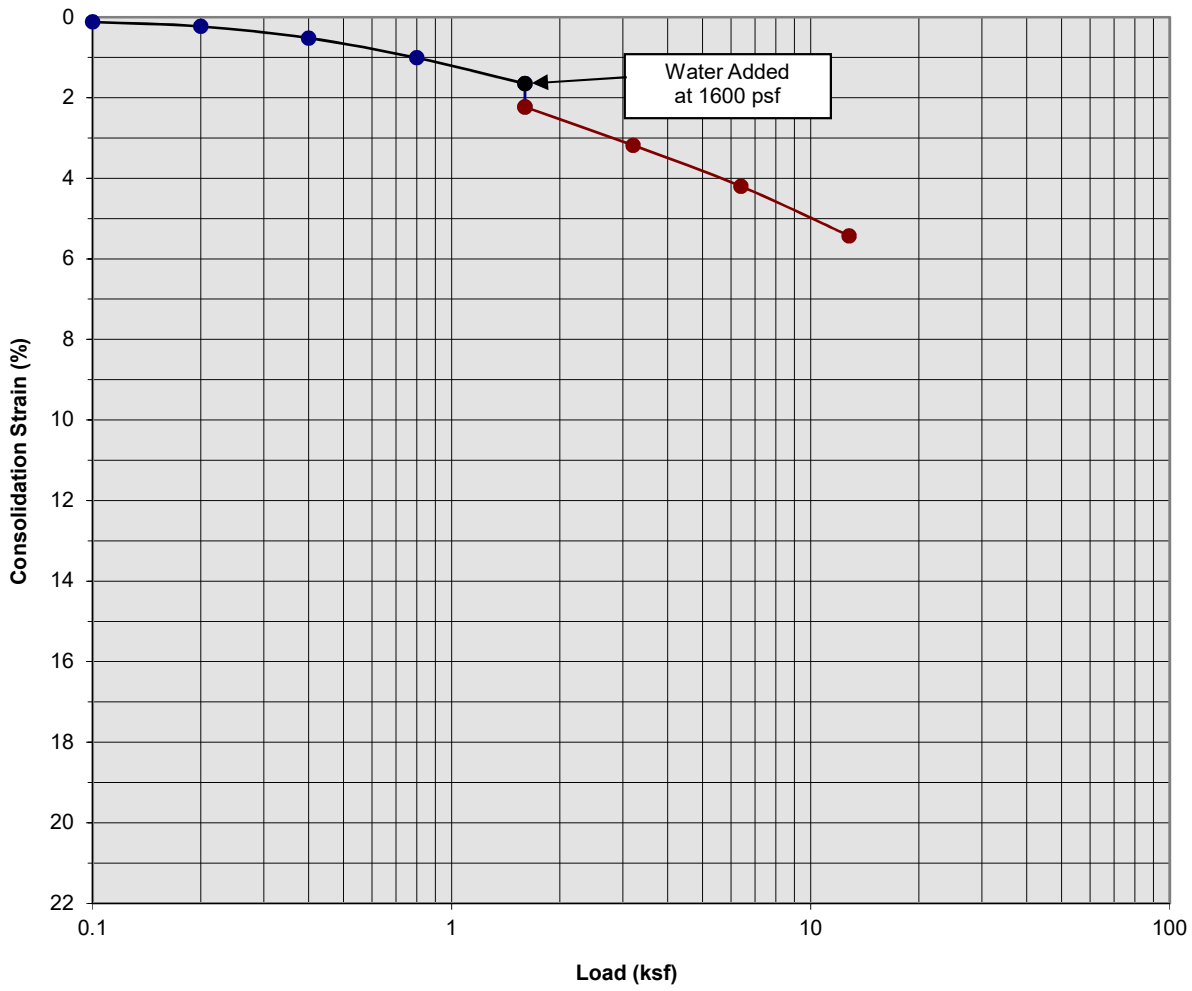
Boring Number:	B-1	Initial Moisture Content (%)	5
Sample Number:	---	Final Moisture Content (%)	16
Depth (ft)	5 to 6	Initial Dry Density (pcf)	100.3
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	107.5
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.71

Proposed C/I Development
Rancho Cucamonga, California
Project No. 19G174-1

PLATE C- 2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown fine to medium Sand, trace coarse Sand

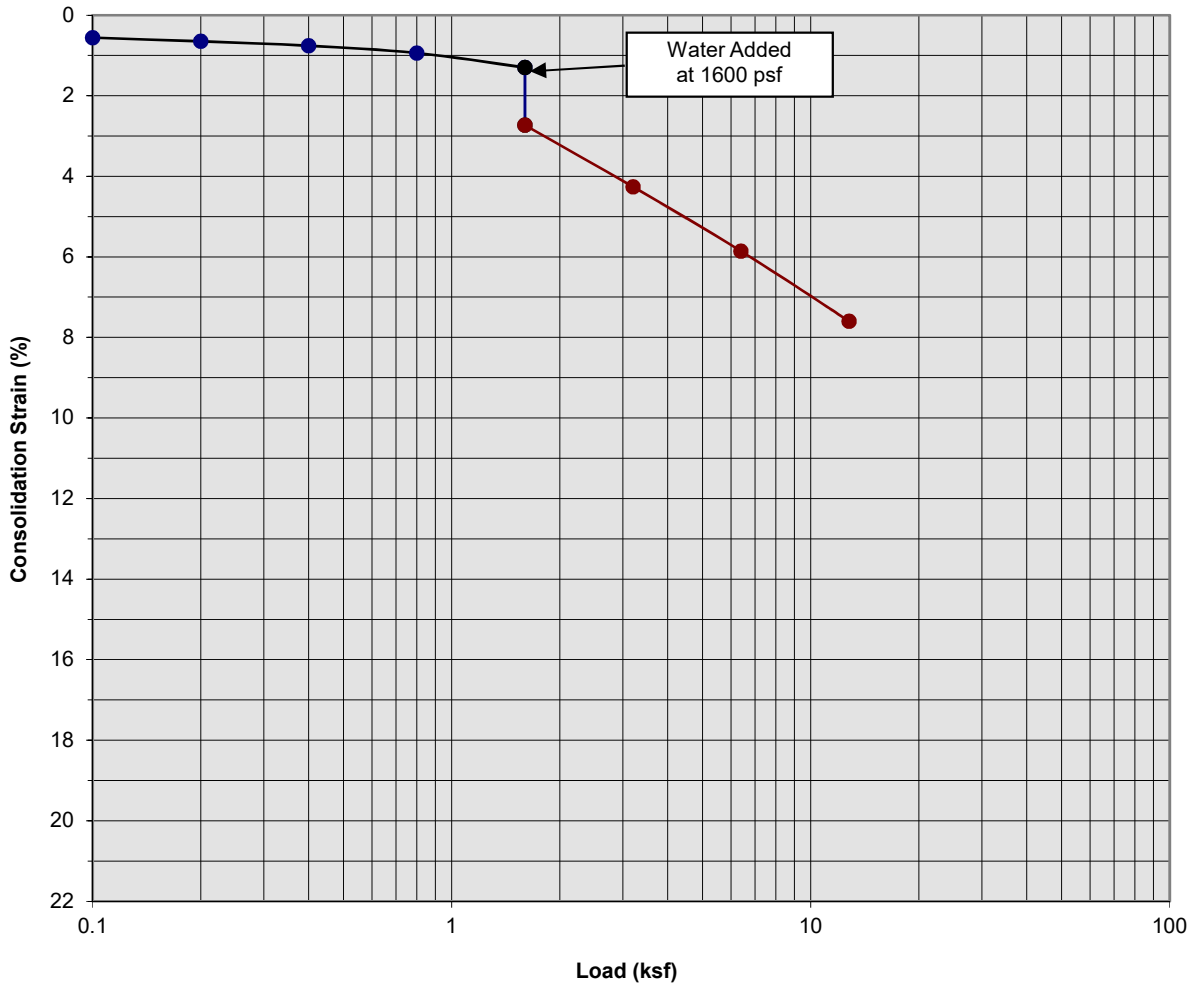
Boring Number:	B-1	Initial Moisture Content (%)	7
Sample Number:	---	Final Moisture Content (%)	19
Depth (ft)	7 to 8	Initial Dry Density (pcf)	111.0
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	117.6
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.58

Proposed C/I Development
Rancho Cucamonga, California
Project No. 19G174-1

PLATE C- 3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown fine to medium Sand, trace coarse Sand

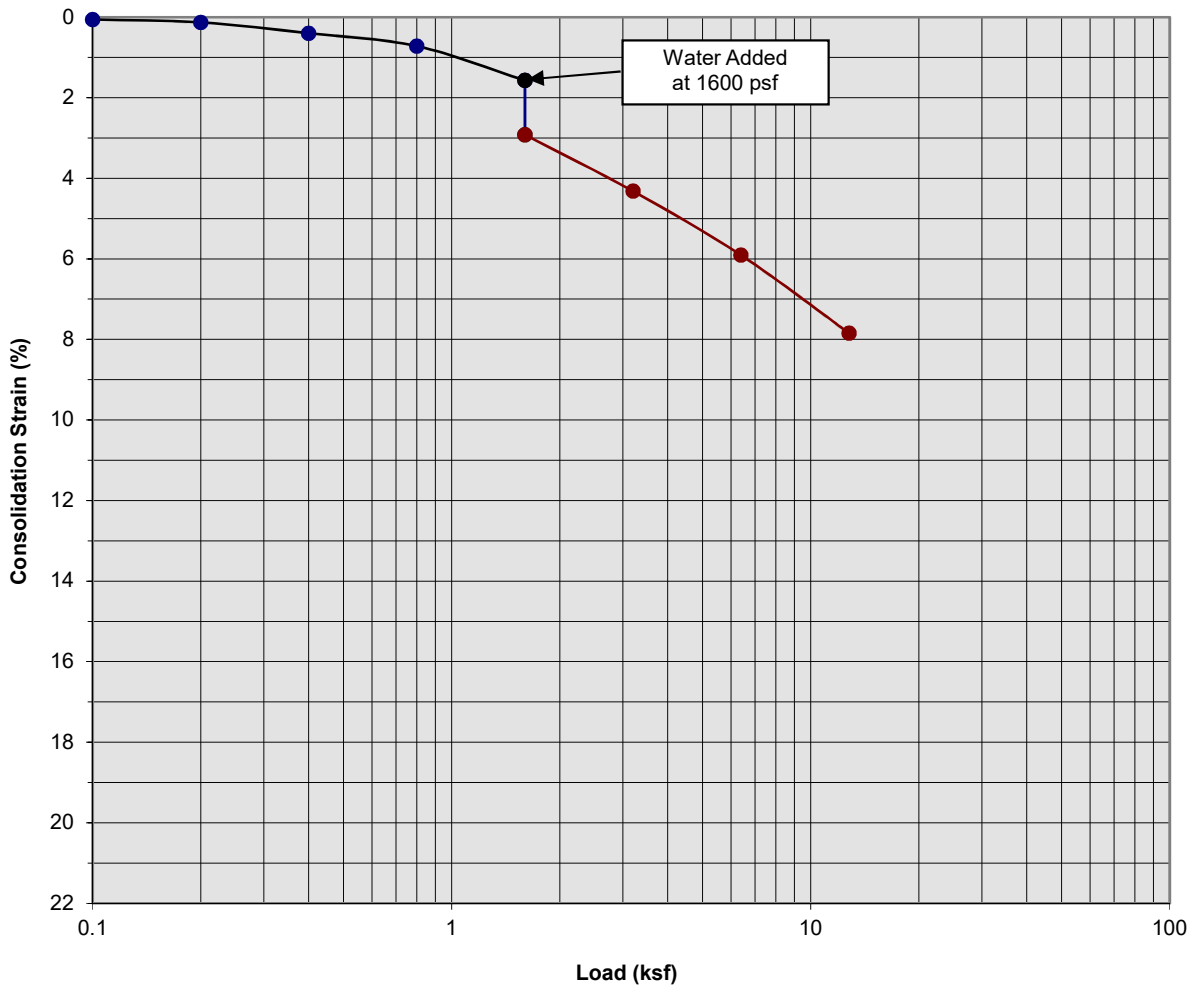
Boring Number:	B-1	Initial Moisture Content (%)	6
Sample Number:	---	Final Moisture Content (%)	15
Depth (ft)	9 to 10	Initial Dry Density (pcf)	115.2
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	124.8
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.43

Proposed C/I Development
Rancho Cucamonga, California
Project No. 19G174-1

PLATE C- 4

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown fine Sand, trace medium to coarse Sand

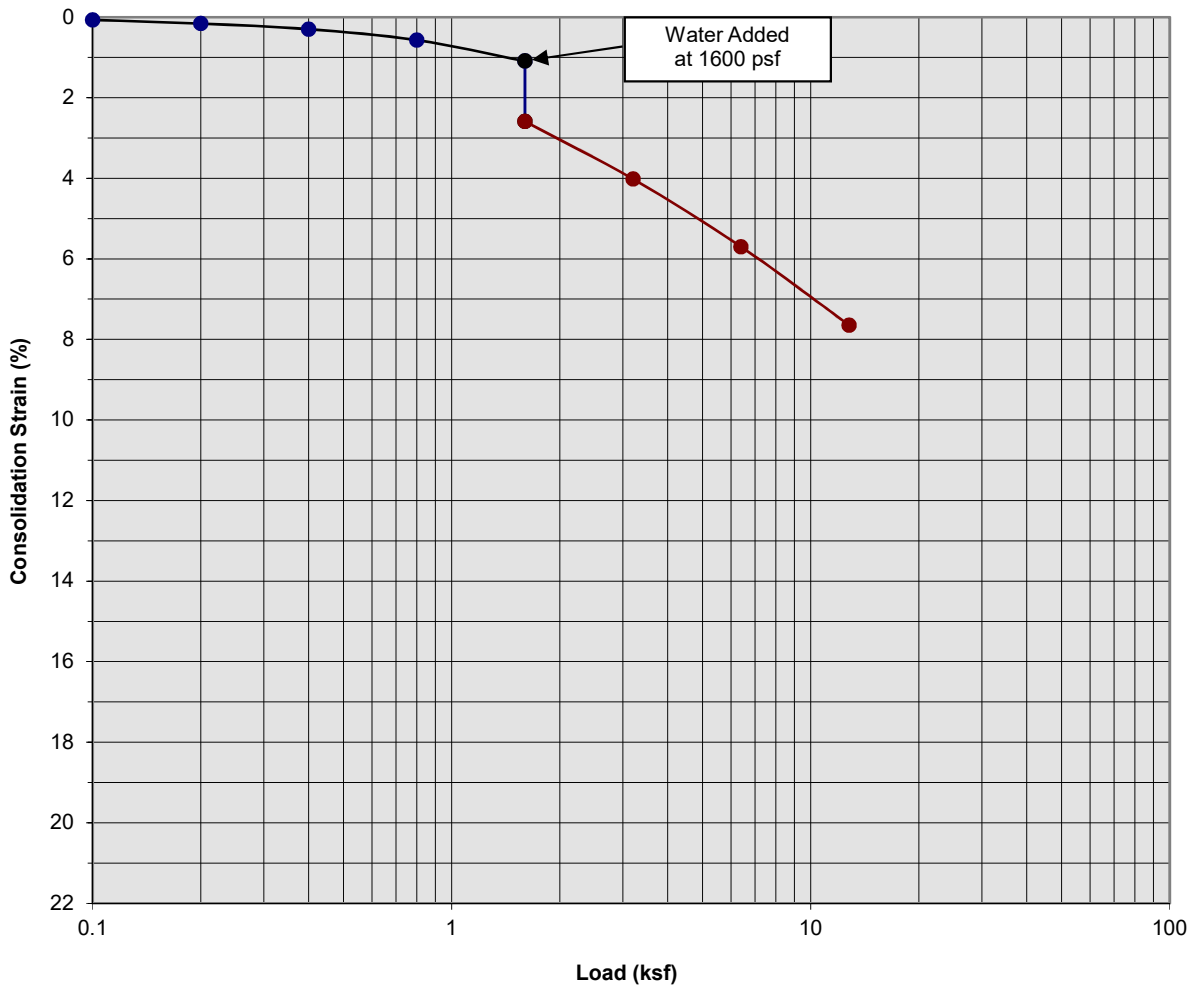
Boring Number:	B-6	Initial Moisture Content (%)	6
Sample Number:	---	Final Moisture Content (%)	23
Depth (ft)	3 to 4	Initial Dry Density (pcf)	95.2
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	103.7
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.35

Proposed C/I Development
Rancho Cucamonga, California
Project No. 19G174-1

PLATE C- 5

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Brown fine to medium Sand, trace coarse Sand, little Silt, little fine Gravel

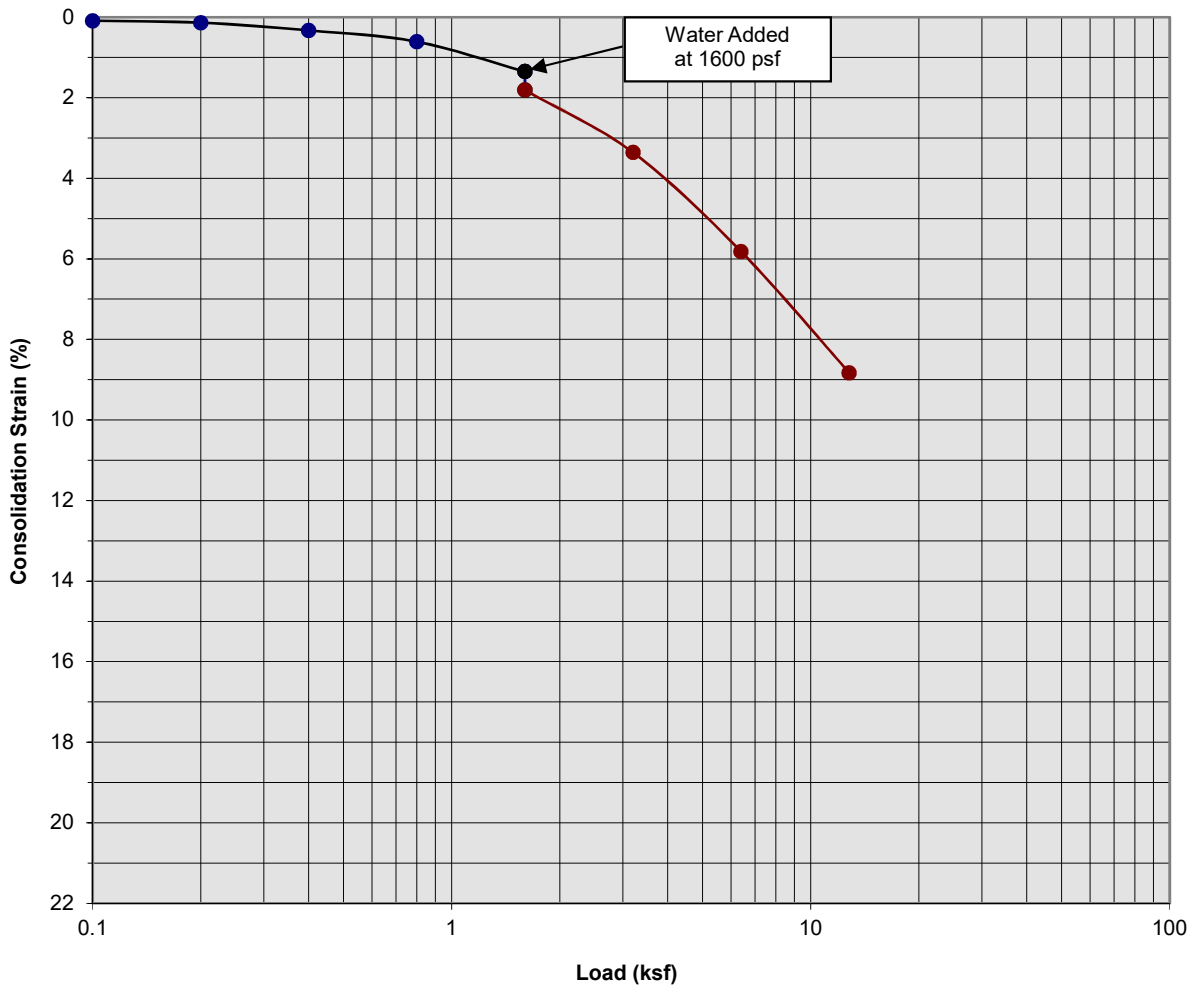
Boring Number:	B-6	Initial Moisture Content (%)	10
Sample Number:	---	Final Moisture Content (%)	16
Depth (ft)	5 to 6	Initial Dry Density (pcf)	109.2
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	118.2
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.50

Proposed C/I Development
Rancho Cucamonga, California
Project No. 19G174-1

PLATE C- 6

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Brown Silty fine Sand, trace medium Sand, trace fine Gravel

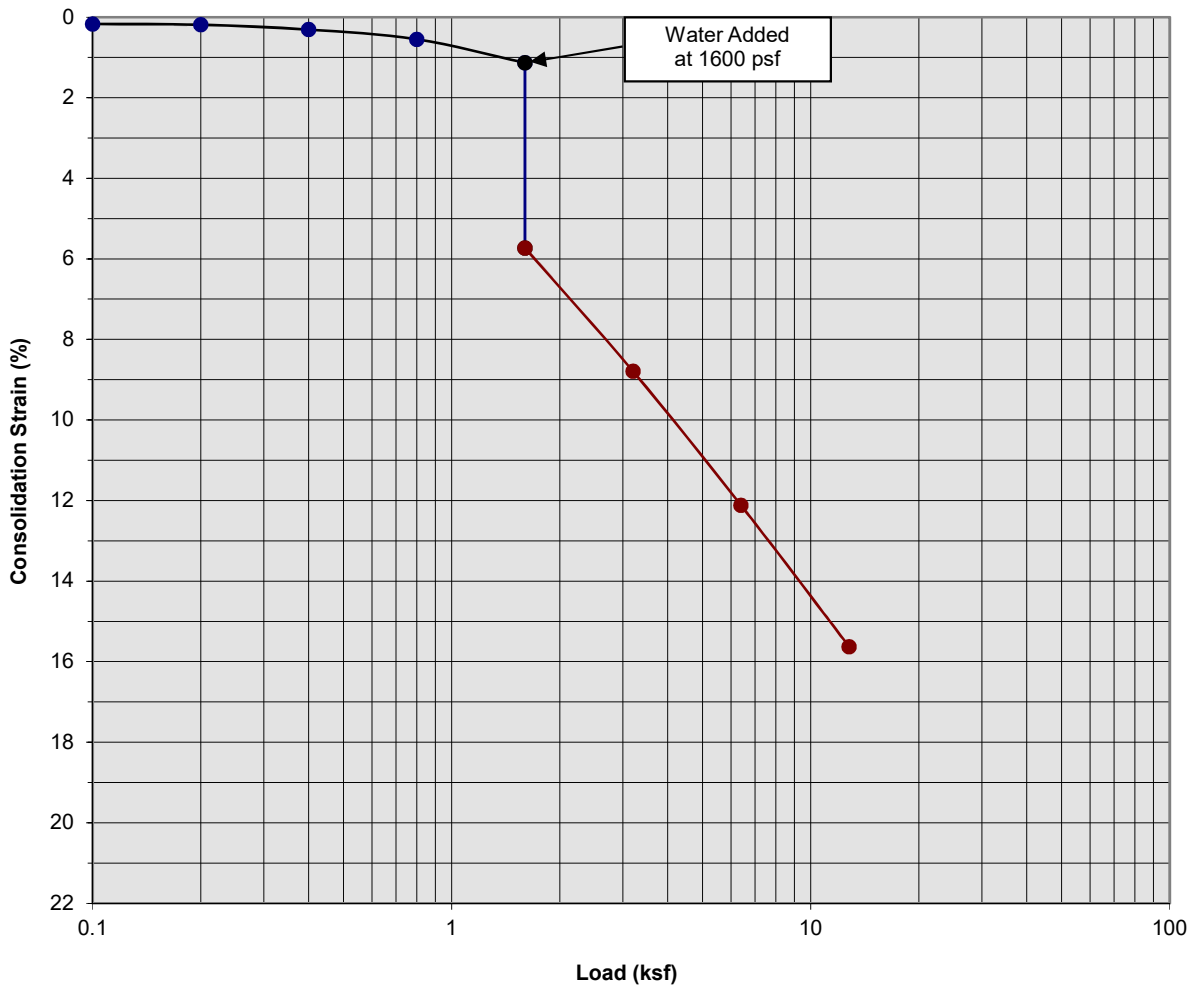
Boring Number:	B-6	Initial Moisture Content (%)	11
Sample Number:	---	Final Moisture Content (%)	16
Depth (ft)	9 ot 10	Initial Dry Density (pcf)	108.4
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	118.8
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.46

Proposed C/I Development
Rancho Cucamonga, California
Project No. 19G174-1

PLATE C- 7

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Light Brown Silty fine to medium Sand, trace Clay, trace fine Gravel

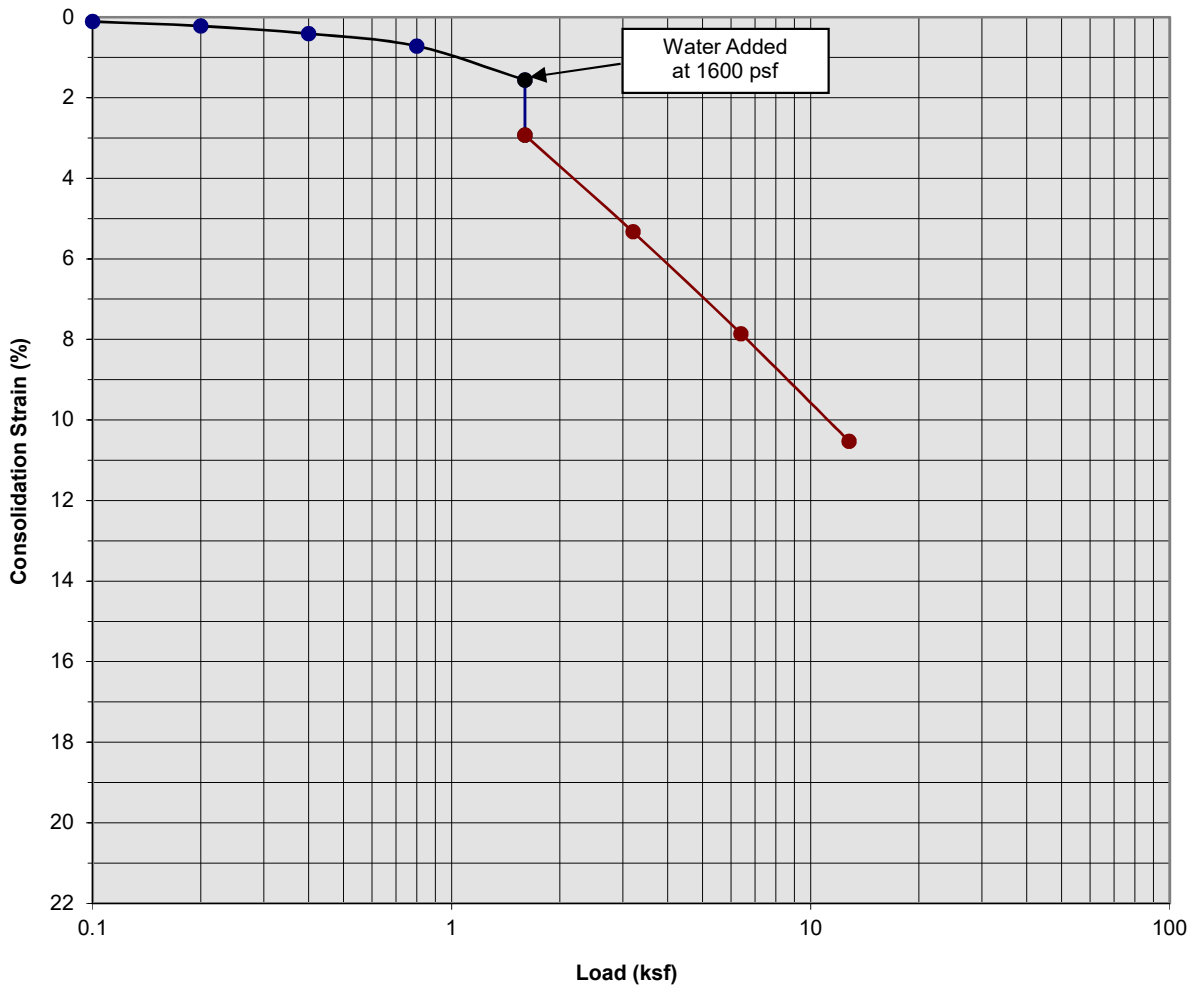
Boring Number:	B-14	Initial Moisture Content (%)	6
Sample Number:	---	Final Moisture Content (%)	15
Depth (ft)	3 to 4	Initial Dry Density (pcf)	102.7
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	120.1
Specimen Thickness (in)	1.0	Percent Collapse (%)	4.60

Proposed C/I Development
Rancho Cucamonga, California
Project No. 19G174-1

PLATE C- 8

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Light Brown fine to medium Sand, trace to little Silt

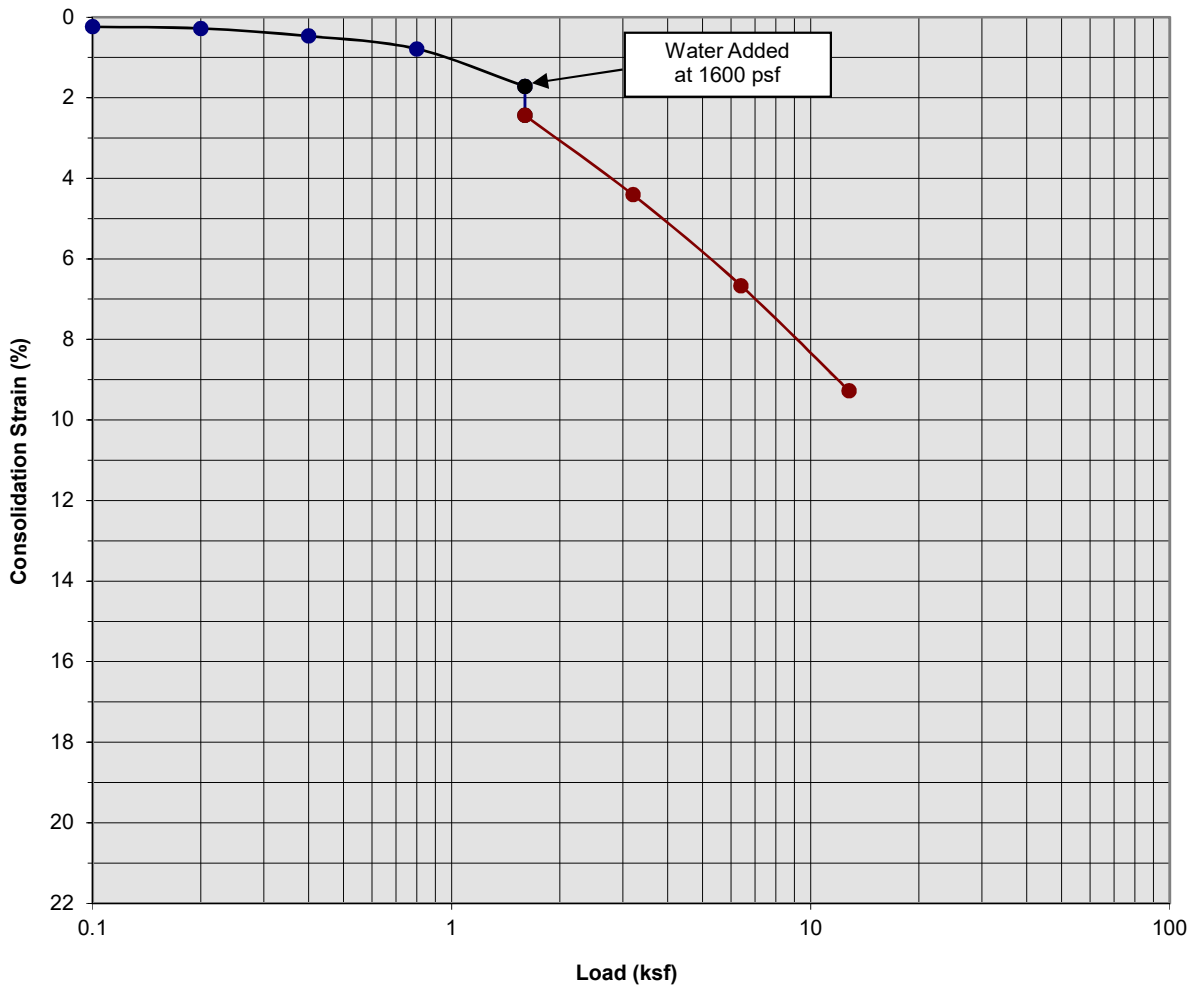
Boring Number:	B-14	Initial Moisture Content (%)	8
Sample Number:	---	Final Moisture Content (%)	15
Depth (ft)	5 to 6	Initial Dry Density (pcf)	107.3
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	122.5
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.37

Proposed C/I Development
Rancho Cucamonga, California
Project No. 19G174-1

PLATE C- 9

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Light Brown fine to medium Sand, trace to little Silt

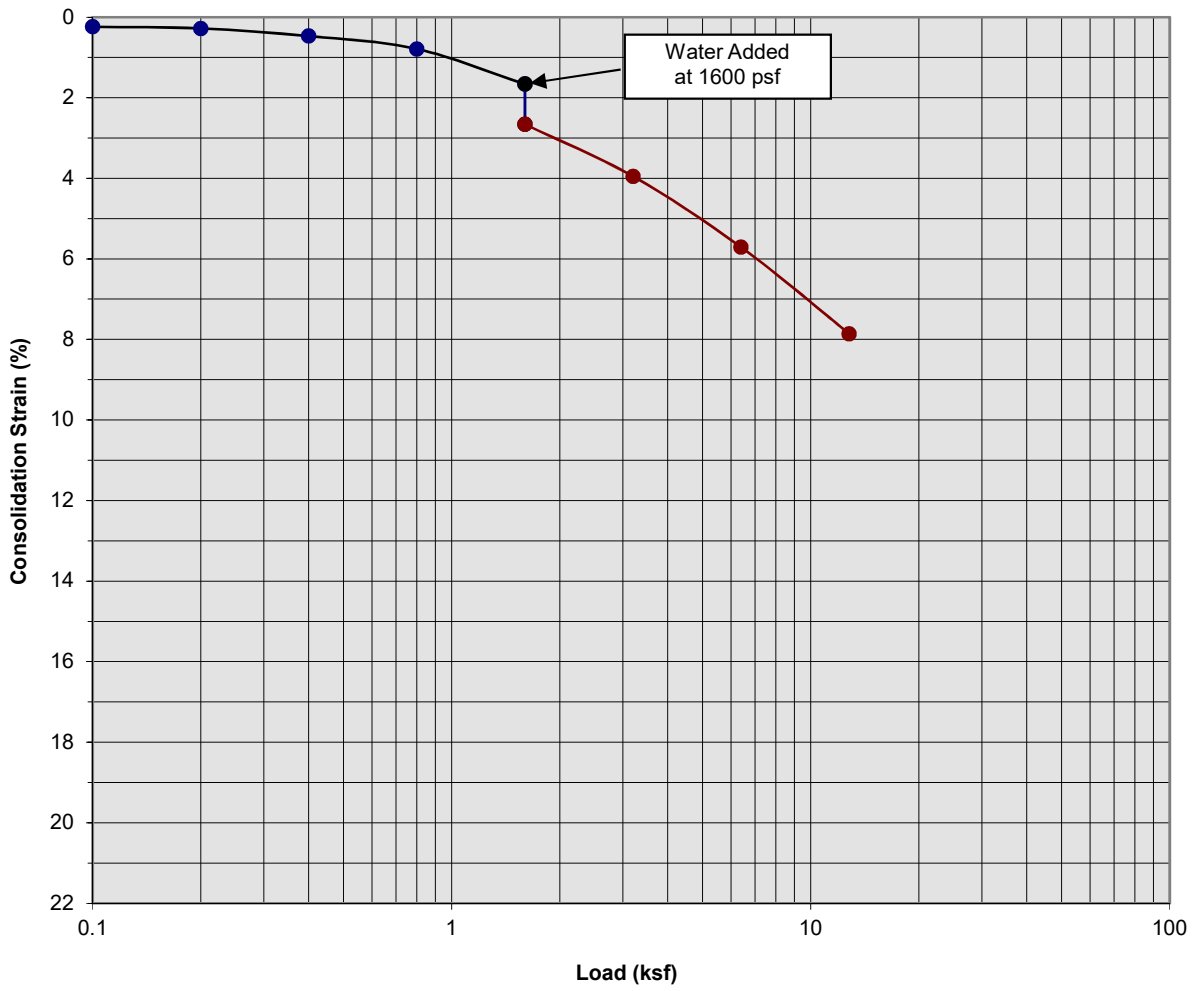
Boring Number:	B-14	Initial Moisture Content (%)	7
Sample Number:	---	Final Moisture Content (%)	14
Depth (ft)	7 to 8	Initial Dry Density (pcf)	107.2
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	118.1
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.72

Proposed C/I Development
Rancho Cucamonga, California
Project No. 19G174-1

PLATE C- 10

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Light Brown fine to medium Sand, trace to little Silt

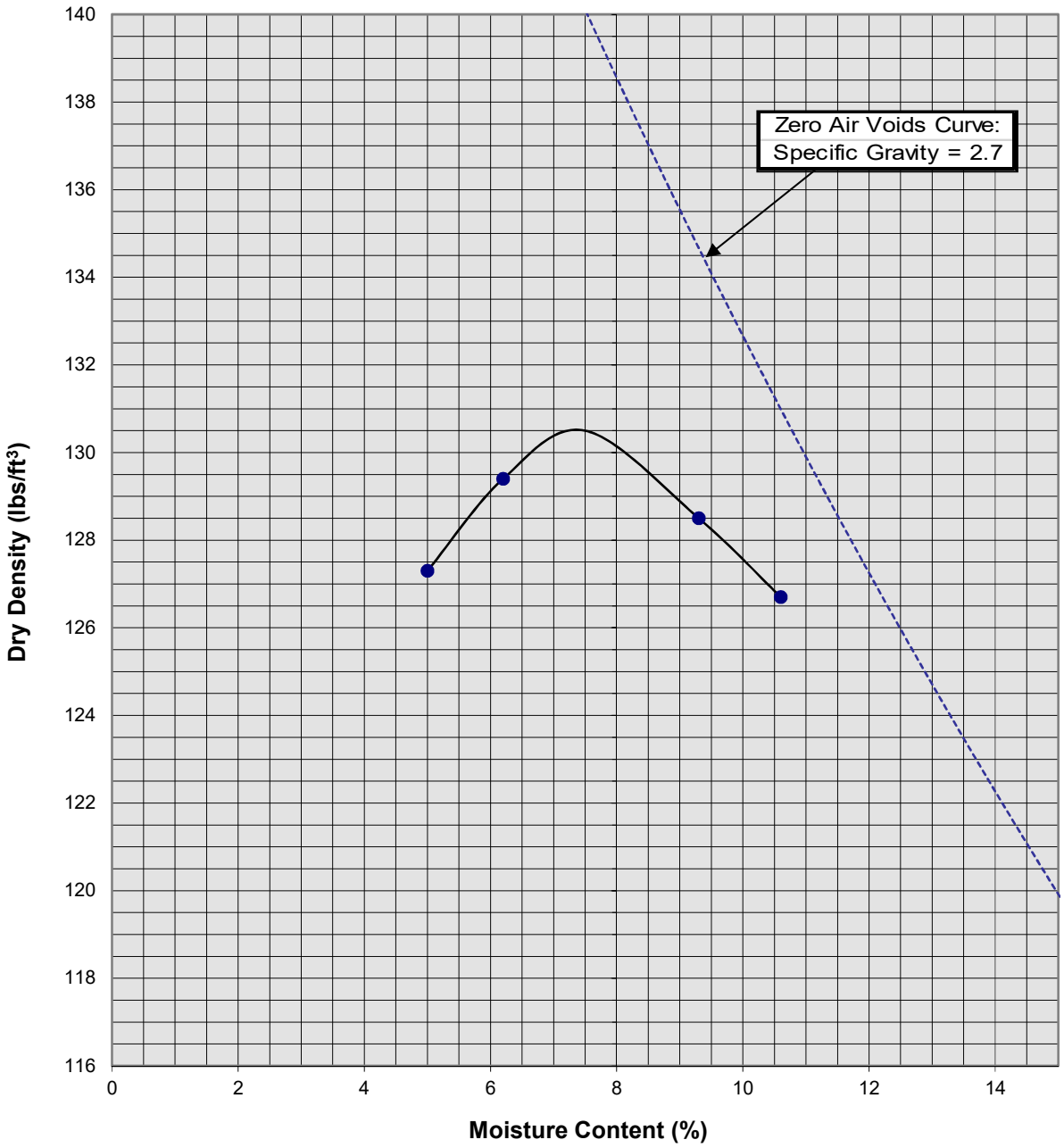
Boring Number:	B-14	Initial Moisture Content (%)	8
Sample Number:	---	Final Moisture Content (%)	15
Depth (ft)	9 to 10	Initial Dry Density (pcf)	111.0
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	120.5
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.00

Proposed C/I Development
Rancho Cucamonga, California
Project No. 19G174-1

PLATE C- 11

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Moisture/Density Relationship
ASTM D-1557



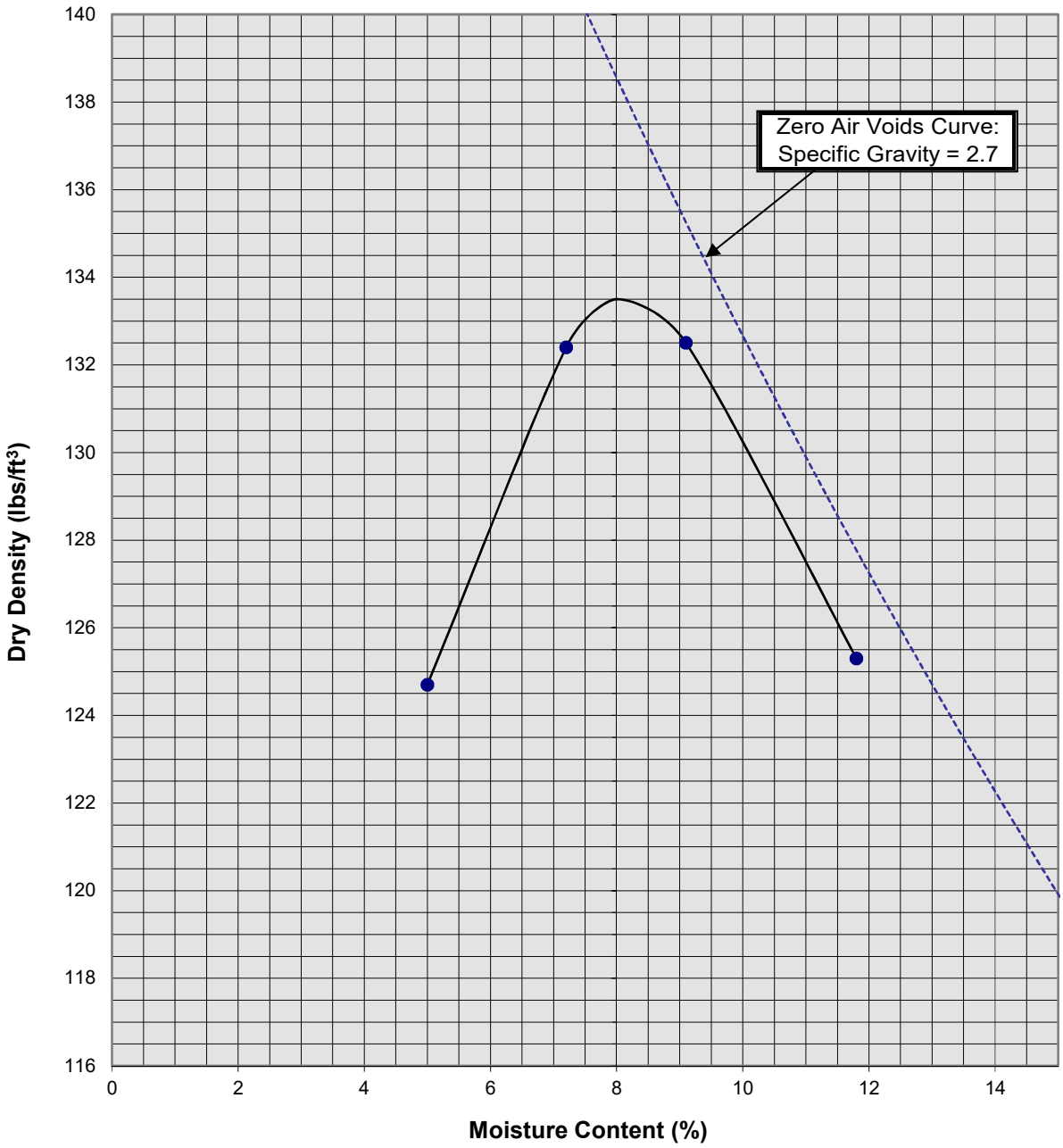
Soil ID Number	B-8 @ 0 to 5'
Optimum Moisture (%)	7.5
Maximum Dry Density (pcf)	130.5
Soil Classification	Gray Brown fine Sand to fine Sandy Silt, trace medium to coarse Sand, trace fine to coarse Gravel

Proposed C/I Development
Rancho Cucamonga, California
Project No. 19G174-1

PLATE C-12

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Moisture/Density Relationship
ASTM D-1557



Soil ID Number	B-9 @ 0 to 5'
Optimum Moisture (%)	8
Maximum Dry Density (pcf)	133.5
Soil Classification	Gray Brown Silty fine to coarse Sand, trace fine to coarse Gravel

Proposed C/I Development
Rancho Cucamonga, California
Project No. 19G174-1

PLATE C-13

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

PHASE I ENVIRONMENTAL SITE ASSESSMENT

8996 Etiwanda Avenue

Rancho Cucamonga, California

October 20, 2020

Prepared for:

Black Creek Industrial Acquisitions LLC
518 17th Street, 17th Floor
Denver, Colorado 80202

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Oakland, California 94612
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(510) 756-0740

Project No.: 124-108-100

EXECUTIVE SUMMARY

Black Creek Industrial Acquisitions LLC retained Path Forward Partners, Inc. (Path Forward) to conduct a Phase I Environmental Site Assessment (ESA) in conjunction with a prospective acquisition of the property located at 8996 Etiwanda Avenue, San Bernardino County, Rancho Cucamonga, California (subject property or Site). The subject property is identified by Assessor's Parcel Number 0229-283-79-0000.

Path Forward conducted this ESA in conformance with *ASTM Designation: E1527-13 Standard Practice for ESAs: Phase I ESA Process*. The scope of work and the terms and conditions are described in our Proposal No. 124-108-100 dated August 27, 2020. Exceptions and limitations encountered during this ESA are identified in the report.

Approximately 80 percent of the 62-acre property is paved, covered with gravel, and/or covered by Site structures that are part of a decommissioned electric power generating facility, known as the Etiwanda Generating Station, including buildings, power generating units, cooling towers, and retention basins/ponds. The remaining 20 percent of the Site is open space or vegetated.

Path Forward identified obvious subject property uses from the present back to 1938, at which time the subject property used for agricultural purposes. The electric power generating facility was constructed by Southern California Edison (SCE) on the subject property in 1951. Additional equipment and retention basins were added to the facility through 1979. The power generating facility operated on-Site until 2018. In 2003, some of the facility equipment was decommissioned. By 2018, the owner, GenOn, had ceased facility operations and the remaining equipment was decommissioned.

This ESA has revealed evidence of recognized environmental conditions (RECs), as defined in Section 1.1, in connection with the subject property, as follows:

- Pending RCRA Facility Investigation: The Superior Court of Los Angeles issued a Final Judgment pursuant to Stipulation on February 1, 1995. The Stipulation alleged that SCE had stored hazardous wastes in unpermitted surface impoundments at the company's power generating stations in Southern California, including the Etiwanda Generating Station. As part of the Stipulation, SCE was required to conduct Resource Conservation and Recovery Act (RCRA) closure of three surface impoundments (two wastewater retention basins and one boiler chemical cleaning basin) and the associated pipelines and appurtenances that connect the basins to the power generating units at the subject property according to Chapter 15 of Title 22, California Code of Regulations. The basins were granted case closure in 2011, as discussed below in the HREC section. The remainder of the subject property was ordered to be evaluated under RCRA corrective action. A Site-wide RCRA Facility Investigation (RFI) is required to evaluate soil beneath

inaccessible areas of the subject property (e.g., beneath the powerblock and cooling towers) and to determine if additional areas of the subject property require further assessment. The potential for impacts beneath Site features due to the historical operation of the power generating facility is considered a REC.

- Pending Data Gap Investigation: SCE submitted a workplan for the data gap soil sampling event to Department of Toxic Substances Control (DTSC) on October 15, 2020. The workplan indicates that soil samples will be collected at one hypochlorite tank/sump, three sulfuric acid aboveground storage tanks (ASTs) and two auxiliary transformers located on the subject property (SCE 2020). SCE stated that the data from the soil sampling event would be included in the RFI workplan along with other data previously collected at the subject property. SCE does not plan to conduct additional sampling in other inaccessible areas of the subject property, such as beneath the generating units and peaker unit. SCE stated that impacts identified in these areas during Site redevelopment will be managed in accordance with a Soil Management Plan that will be proposed in the RFI. The potential for impacts beneath Site features proposed for investigation is considered a REC.

- Arsenic in Soil: A Phase II investigation conducted in 1997 identified five areas on the subject property containing arsenic concentrations in soil above screening criteria identified in 1997. The identified areas are generally defined as surface water discharge, pipelines, cooling towers 3 and 4, sulfuric acid storage tanks, and the former water softener and brine pit. The maximum concentrations detected in 1997 were compared to the current DTSC approved background concentration of 12 milligrams per kilogram (mg/kg). Maximum arsenic concentrations detected at three of the areas, cooling towers 3 and 4 (17 mg/kg), sulfuric acid storage tanks (22 mg/kg), and former water softener and brine pit (17 mg/kg), exceeded the background concentration. The maximum concentrations detected at the surface water discharge (5.3 mg/kg) and pipelines (2.6 mg/kg) were below the background concentration.

  An additional investigation conducted in the vicinity of the Units 1 and 2 cooling towers conducted in March through May 2005 detected arsenic in shallow soils at concentrations ranging from 160 to 390 mg/kg. In August 2005, additional shallow soil sampling in the vicinity of the Units 1 and 2 cooling towers found arsenic at concentrations between 1.89 and 70.2 mg/kg. URS concluded that elevated arsenic concentrations "do not extend much past the base of the cooling tower units." In September 2019, SCE's consultant, Northgate Environmental, prepared a Cooling Towers Removal Activities Memorandum that outlines the excavation activities planned in the immediate vicinity of the Units 1 and 2 cooling towers (Northgate 2019).

  The elevated arsenic concentrations remaining in on-Site soils in the vicinity of cooling towers 1 and 2, cooling towers 3 and 4, sulfuric acid storage tanks, and former water softener and brine pit is considered a REC.

- 2019 Investigation Results: In October 2019, Ardent Environmental Group (Ardent) conducted a site investigation on behalf of a prospective buyer. Figures and tables from this investigation were provided to Path Forward but an accompanying report was not available. Based on a review of the figures and tables, soil and soil gas samples collected in several locations on the subject property contained concentrations of chemicals above human health and/or disposal criteria. Chemicals detected in soil above human health and/or disposal criteria include total petroleum hydrocarbons (TPH) as diesel in Chadwick Channel, arsenic and lead near the Unit 3 cooling tower, arsenic, copper, and lead in Landfill I (see 2020 Soil Excavation below), and thallium in the Unit 3 cooling tower flume. Chemicals detected in soil gas above human health and/or disposal criteria include bromodichloromethane, chloroform, 1,1-dichloroethane (1,1-DCA), tetrachloroethylene (PCE), and vinyl chloride in the maintenance shop area and 1,1-DCA, PCE, and vinyl chloride in the septic system associated with the maintenance shop. Given that the areas where elevated concentrations of chemicals were detected have not been further investigated, the extent of impacts in these areas has not been defined. The results of the 2019 Investigation indicating the presence of impacts above human health and/or disposal criteria is a REC.

- 2020 Soil Excavation: Metals-impacted soil in the northwest portion of the property (identified as Landfill I) was identified during a 2019 subsurface investigation conducted by Ardent. Between May and July 2020, approximately 6,445 tons of metals-impacted soil was identified and excavated from this area of the subject property. The soil was profiled as non-RCRA hazardous waste and disposed off-Site. The Soil Removal Memorandum prepared by ERM and dated September 22, 2020 states that, based on the results of field screening, visual observations and analytical results of the confirmation samples, all impacted soil containing elevated metals concentrations in the northwest portion of the subject property has been removed. ERM recommended no further action to mitigate this area.

  During the site visit performed by Path Forward, additional “black sand” was identified in northwest portion of the property (identified as Landfill II). In September 2020, ERM collected one additional soil sample of “black sand” that appeared similar to the area of excavation in Landfill I. The metals concentrations detected were similar to those detected in the Landfill I area; however, were below human health risk based levels. Given that only one sample was collected in this area, the extent of soil with elevated metals concentrations is not known. The presence of Black Sand in Landfill II is considered a REC.

- Spills and Releases: Numerous spills and releases from the cooling towers, tanks, and equipment have occurred since Site operations began in 1953. SCE records, San Bernardino County Fire Department records and records in the CHMIRS database indicate that releases to Chadwick Channel and other areas on the subject property have occurred throughout the history of Site operations. For example, records indicate

that transformer leakage in 1991 generated approximately 80 tons of transformer oil-containing soil and that an approximately 45-gallon release of non-PCB mineral oil was recovered by removal of soil in 1995. In addition, oil staining was noted in the powerblock and near various equipment at the Site during the Site reconnaissance conducted by Path Forward and others. Previous investigations conducted at the subject property have not included sampling in areas of subsurface and aboveground piping that conveys fuel oil from oil tanks to the powerblock. Given the long history of industrial operations including significant quantities of petroleum and other products and known release events, it is possible that impacts are present beneath inaccessible areas, such as the powerblocks and cooling towers, and near other equipment at the subject property, such as pipelines. This long industrial history and documented releases is considered a REC.

This ESA has revealed evidence of historical recognized environmental conditions (HRECs), as defined in Section 1.1, in connection with the subject property, as follows:

- Retention Basin RCRA Investigation and Closure: As discussed above in the REC section, the Superior Court of Los Angeles issued a Final Judgment pursuant to Stipulation on February 1, 1995. The Stipulation alleged that SCE had stored hazardous wastes in unpermitted surface impoundments at the company's power generating stations in Southern California, including the Etiwanda Generating Station. As part of the Stipulation, SCE was required to conduct RCRA closure of three surface impoundments (two wastewater retention basins and one boiler chemical cleaning basin) and the associated pipelines and appurtenances (the "Retention Basin Site") that connect the basins to the power generating units at the subject property according to Chapter 15 of Title 22, California Code of Regulations.

  SCE conducted investigations to determine whether the basins or associated conveyance systems had released wastewater to the underlying soil. The investigations concluded that leakage had occurred through the basin liners causing limited changes in the native soil chemistry. A DTSC-approved Water Quality Monitoring Program (WQMP) was subsequently conducted. A Closure Documentation Report (CDR) submitted to the DTSC in 2011 summarizes the data collected for the RCRA closure project. The CDR concluded that the extensive sampling and resultant analytical data illustrates a complete characterization of the soil beneath the retention basins and associated pipeline system. The CDR also concluded that there is no direct pathway for leakage to impact the groundwater and that there is no evidence of a continuous leak of wastewater to the sediments. The retention basins were found to meet closure requirements for the soil and groundwater chemicals of potential concern (COPCs) based on the results of a human health risk assessment that concluded that human health risks are within acceptable limits for future unrestricted industrial or residential use and that groundwater use is also acceptable for unrestricted use. The

environmental and ecological scoping-level risk assessment determined that ecological exposure pathways are incomplete.

The DTSC reviewed the CDR and issued a Closure Certification Acknowledgment letter on December 29, 2011 (DTSC 2011). The letter states that the DTSC considers the Retention Basin Site as being officially closed on December 20, 2011 and confirms that the Retention Basin Site has been investigated. The RCRA closure of the retention basins at the subject property is considered an HREC.

- 1985 Underground Storage Tank (UST) No Further Action Letter: An October 13, 1985 report provided the results of a soil investigation for three USTs (120-gallon naphtha, 550-gallon kerosene, and 550-gallon unleaded gasoline) that were removed in 1986. Five soil borings were advanced to 49 feet below ground surface (bgs) each, and a total of 24 soil samples were collected. All samples were analyzed for total recoverable petroleum hydrocarbons (TRPH). The highest TRPH result was 11 mg/kg from a sample collected at a depth of 10 feet bgs. The investigation results were submitted to the County of San Bernardino Department of Environmental Health Services on December 11, 1985. The DEHS reviewed the results and issued a letter dated December 27, 1985 that states "this Department concurs that the levels of contamination found do not present an environmental or public health threat." The no further action letter for the UST closure is considered an HREC.

- 1998 Tank Area No Further Action Letter: A May 26, 1998 letter, the Regional Water Quality Control Board (RWQCB) stated that their review of a April 9, 1998 Baseline Tank Study Report, which was not available in the records reviewed, indicates that additional investigation was required in borings where TPH concentrations were increasing with depth. The Baseline Tank Study Report included soil data collected in the "west and east tank areas" at the subject property. The location of these areas was not identified in records reviewed. The RWQCB letter states that further characterization of these areas could be conducted during remedial activities in these areas. A December 9, 1998 letter from the RWQCB to SCE indicated that, based on a review of the results of sampling contained in an August 21, 1998 report, which was also not available in the records reviewed, no further action was required. The no further action letter for the Tank Area is considered an HREC.

- Chadwick Channel Excavation Activity: The 1997 Phase II ESA indicates former occupants of properties to the north of the Site (TAMCO and Ameron) were responsible for several releases to the Chadwick Channel and other areas located to the north of the Site in the 1980s and 1990s. An investigation conducted in 1985 reportedly detected concentrations of arsenic in Chadwick Channel above screening criteria, and concentrations of lead and chromium above hazardous waste criteria. Results of the 1985 investigation were reportedly presented in a Site Characterization Study for the Etiwanda Generating Station; however, this report was not available for Path Forward's

review. On July 22, 1987, SCE received a letter from the RWQCB that states, based on review of the "Site Characterization study" that addressed the chemical composition and extent of impact to soil in the drainage channel and spreading basin, which is located south of the subject property, no further remedial action will be required.

Path Forward also reviewed a 1997 Chadwick Channel Site Investigation and Cleanup report that indicates that soil containing nickel at concentrations above the California Total Threshold Limiting Concentration (TTLC) were delineated near the former Unit 4 drain line discharge in Chadwick Channel. Beryllium was also detected at concentrations above its Preliminary Remediation Goal (PRG). The soil was excavated and sidewall and bottom samples confirmed that all impacted soil was removed. Agency closure of the 1997 excavation activities was not found during this assessment. The no further action letter and remediation of the area of Chadwick Channel near the former Unit 4 drainage line discharge are considered an HREC.

This ESA has revealed no evidence of controlled recognized environmental conditions (CRECs), as defined in Section 1.1, in connection with the subject property.

This ESA has revealed the following de minimis conditions, as defined in Section 1.1, in connection with the subject property:

- Former Agricultural Uses: The subject property was used for agricultural purposes sometime prior to 1938 until the early 1950s. Although not documented at the subject property, activities commonly associated with agricultural uses may include the use and storage of hazardous materials and petroleum products (*e.g.*, agricultural chemicals). Information was not available as to the potential historical usage of pesticides, fertilizers or insecticides. Based on our experience, these residual concentrations, if present, are not typically at concentrations that would require cleanup by a regulatory agency or pose a significant human health risk to commercial or industrial site users. There is potential that the near surface soils may contain residual agricultural chemicals that may affect disposal costs in the event redevelopment is planned and such soils are removed from the property. The historical agricultural use is considered a de minimis condition.

- Closed in place UST(s): A 550-gallon UST was installed at the subject property in 1986 or 1996. The 2007 Phase I ESA indicates that a construction inspection record dated January 13, 2000 and prepared by the Rancho Cucamonga Fire Department (RCFD) indicates that a 500-gallon fiberglass UST was removed from the Etiwanda facility. No noncompliance was observed. The inspection report indicated the UST was removed and transported offsite. Although a copy of the closure report was requested, the report was not contained in the file. However, the 2019 Phase I ESA indicates that the 550-gallon UST was closed in place at the Site in 2000 although closure and removal documentation was not available for review. Based on Path Forward's review of San

Bernardino County Fire Department (SBCFD) records, an Underground Storage Tanks form for permanent on-site closure of a 2,000-gallon UST was filed with the CUPA on January 3, 2000. The form indicates that the UST was filled with inert material and closed in place. No information regarding UST contents or location was found in the records reviewed. Based on the conflicting information provided in the previous Phase Is and records reviewed by Path Forward, it is possible that one or two USTs may have been closed in place at the subject property; one 550-gallon UST may be located south of the warehouse and the location of one 2,000-gallon UST is unknown.

- Potential UST: The 1997 Phase II ESA indicates that Edison Drawing 5625202 identifies a UST near a carport area, as shown on Figure 3. Geraghty & Miller conducted a geophysical survey in the area identified and did not identify a UST in this area but concluded that a UST may be found in this area during Site redevelopment.

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1.0 INTRODUCTION

Black Creek Industrial Acquisitions LLC (User) retained Path Forward Partners Inc. (Path Forward) to conduct a Phase I Environmental Site Assessment (ESA) in conjunction with a prospective acquisition of the property located at 8996 Etiwanda Avenue, San Bernardino County, Rancho Cucamonga, California (subject property or Site). The subject property is identified by Assessor's Parcel Number 0229-283-79-0000. Figure 1 shows the approximate subject property location.

1.1 Purpose

One purpose of this Phase I ESA is to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability. A Phase I ESA is performed to identify recognized environmental conditions (RECs), historical recognized environmental conditions (HRECs), and controlled recognized environmental conditions (CRECs) in connection with the subject property by performing all appropriate inquiry into subject property ownership and use as well as into uses of adjoining properties and surrounding areas within approximate minimum search distances from the subject property.

ASTM Designation: E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessments Process (ASTM E1527) defines the terms REC, CREC, HREC and de minimis as follows (emphasis in original to indicate formally defined terms):

> **REC** – "The presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (1) due to any *release* to the environment; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a *material threat* of a future *release* to the *environment. De minimis* conditions are not *recognized environmental conditions*."
>
> **CREC** – "A *recognized environmental condition* resulting from a past *release* of *hazardous substances* or *petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with *hazardous substances* or *petroleum products* allowed to remain in place subject to the implementation of required controls (for example, *property* use restrictions, *activity and use limitations, institutional controls*, or *engineering controls*). A condition considered by the *environmental professional* to be a *controlled recognized environmental condition* shall be listed in the findings section of the *Phase I Environmental Site Assessment report*, and as a recognized environmental condition in the conclusions section of the *Phase I Environmental Site Assessment report*."

HREC – "A past *release* of any *hazardous substances* or *petroleum products* that has occurred in connection with the *property* and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, *property* use restrictions, *activity and use limitations*, *institutional controls*, or *engineering controls*). Before calling the past release a *historical recognized environmental condition*, the *environmental professional* must determine whether the past *release* is a *recognized environmental condition* at the time the *Phase I Environmental Site Assessment* is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past *release* to be a *recognized environmental condition* at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a *recognized environmental condition*."

De Minimis Condition – "A condition that generally does not present a threat to human health or the *environment* and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* conditions are not *recognized environmental conditions* nor *controlled recognized environmental conditions*.

1.2 Methodology

Path Forward conducted the Phase I ESA in conformance with ASTM E1527. The scope of work and the terms and conditions are described in our Proposal No. 124-108-100 dated August 27, 2020.

1.3 Limitations

Path Forward obtained information for this ESA from various sources including historical sources, public records, the User, interviews and an environmental database report. For purposes of performing this Phase I ESA, this information is assumed to be correct and complete. Path Forward is not responsible for the quality or content of information from these sources.

Path Forward encountered the following data gaps or limitations in performing this ESA:

- Path Forward was not able to access the interior of two of shipping containers. No staining was noted in the vicinity of the shipping containers.

The information and opinions rendered in this report are exclusively for use by Black Creek Industrial Acquisitions LLC, its successors and/or assigns. Path Forward will not distribute or publish this report without consent except as required by law or court order. The information and opinions expressed in this report are given in response to a limited assignment and should be considered and implemented only in light of that assignment. The services provided by Path

Forward in completing this project were consistent with normal standards of the profession. No other warranty, expressed or implied, is made.

2.0 RECONNAISSANCE

Date of Site Visit:	September 17, 2020
Path Forward Person(s):	David A. Grunat, P.G. C.H.G. and Karen T. Smith
Property Escort:	Jon Sacks of GenOn and Steve Williams of ERM
Inaccessible Areas:	Interior of two shipping containers

The subject property reconnaissance was performed by vehicle and on foot. Adjoining properties were observed from the subject property and from public thoroughfares. Photographs are presented in Appendix A. Figure 2 depicts a site plan.

2.1 Subject Property Use

Approximately 80 percent of the 62-acre subject property is paved, covered with gravel, and/or covered by Site structures that are part of a decommissioned electric power generating facility, known as the Etiwanda Generating Station, including buildings, power generating units, cooling towers, and retention basins/ponds. The structures and basins/ponds located on the subject property are shown on Figure 2 and include the following:

- Guard shack;
- Administrative office building;
- Former maintenance shop;
- Former warehouse building;
- Former welding shop;
- Control room;
- Capped natural gas piping easement;
- The Chadwick Channel drainage ditch;
- Four decommissioned natural gas/oil/distillate- fueled electric generating units (Units 1, 2, 3, and 4)
- Decommissioned peaker unit (Unit 5);

- Cooling towers for Units 1-4;
- Cooling tower make-up water pond;
- Former hazardous waste accumulation area;
- Decommissioned reverse osmosis equipment and retention basin;
- Former laydown area;
- Fueling station;
- North and South retention basins;
- Former boiler chemical cleaning basin;
- Electrical transformers;
- Aboveground storage tanks; and
- Several auxiliary storage sheds/trailers.

The remaining 20 percent of the Site is open space or vegetated. The subject property is surrounded by chain-link fencing. Access to the subject property is through a gate on the eastern side of the subject property on Etiwanda Avenue. A manned guard shack monitors access to the subject property. Paved and dirt roads are located throughout the subject property. Paved parking areas are located north, south, and west of the administrative office building.

GenOn ceased operating the Etiwanda Generating Station on June 28, 2018. A facility caretaker employed by GenOn currently works at the subject property. The caretaker is responsible for facility maintenance and upkeep, operation of sumps, and keeping required permits and records up to date. The caretaker uses a gasoline-powered golf cart to travel on the Site. A third-party contractor staffs and operates the guard shack 24 hours a day, seven days a week.

Utilities are provided to the subject property as follows:

Electricity:	Southern California Edison
Gas:	Natural gas connections at the Site are currently capped and not in use.
Sewer:	On-Site septic tanks; no city sewer connection.
Water:	Bottled water for drinking purposes. Former on- and off-Site groundwater production wells were formerly utilized for non-potable use.

An underground pipeline aqueduct owned by the Metropolitan Water District (MWD) runs east-to-west along the southern portion of the subject property from the guard shack area to the western property boundary.

2.1.1 Hazardous Substances and Petroleum Products

Path Forward assessed the subject property for indications of the use, storage, or disposal of hazardous substances and petroleum products (e.g., manufacturing activities, drums, containers, stressed vegetation, stains, sheens, and heating/cooling systems). Path Forward observed no such indications, except for the following:

- Southeastern portion of the Site: 250-gallon gasoline AST in the fueling station.
- Unit 4: Several labeled and unlabeled drums and smaller containers were observed including a 30-gallon drum of trisodium phosphate, a 5-gallon container of unfiltered oil, and an approximately 2-gallon container of oil.
- Maintenance building: Several labeled and unlabeled smaller containers were observed including retail-sized containers of cleaners and aerosols.
- Warehouse building: Several labeled and unlabeled smaller containers were observed including 5-gallon pails on wooden pallets and several small containers of oil.
- Hazardous waste accumulation area: Two 8-gallon oily waste containers and five empty 55-gallon drums.
- Throughout the Site: Oil-filled transformers.

Since ceasing operations in June 2018, GenOn has removed bulk chemicals formerly stored at the subject property. Most of the tanks and reservoirs of oils and chemicals have been drained and properly closed as documented in the 2018 Closure Report (ERM 2018). The Closure Report states that oil-filled equipment serving Units 1, 2, and 5 was previously drained of oil and decommissioned when the units were taken out of service in 2003. In June 2018, GenOn prepared a Closure Plan that was approved by the City of Rancho Cucamonga. Between June and September 2018, additional closure activities were completed and documented in the Closure Report. The closure activities included draining, cleaning, and certifying the tanks and equipment in Units 3 and 4. Empty tanks and equipment from Units 1, 2, and 5 were cleaned and inspected and equipment that was in service in these units was emptied, cleaned and closed, with the exception of some equipment that remains in use, such as transformers.

Table 1 from the Closure Report, which is included in Appendix C, summarizes the completed closure activities, which include the following:

- Petroleum was drained from ASTs, transformers, and other oil-bearing equipment and the equipment was cleaned.
- The three retention basins were emptied of waste materials and cleaned.
- Chemicals stored in ASTs were cleaned using a combination of manual scraping of bottom sludge and pressure washing tank interiors with hot water.
- Portable containers (totes, 55-galllon drums, 5-gallon and smaller containers) of petroleum and other chemicals were removed from the Site for disposal.

Figure 2 through 10 of the Closure Report show the locations of the tanks and equipment that were addressed during the closure activities documented in the Closure Report. These figures are included in Appendix C.

2.1.2 Underground Storage Tanks (USTs)

Path Forward assessed the subject property for indications of USTs (*e.g.*, vent piping, dispensing equipment, pavement variations, and fill ports). Path Forward observed no such indications. Records reviewed during this assessment indicate several USTs containing petroleum products, wastewater, and other constituents have historically been in use at the Site, as discussed below.

Based on a review of previous reports, three USTs were historically located between Units 2 and 3, south of the warehouse building, as shown on Figure 3. Soil samples collected in this area in 1985 identified TRPH was detected at a maximum concentration of 11 mg/kg at a depth of 10 feet bgs and was not detected in samples collected at 40 feet bgs. The tanks were removed in 1986 and replaced by a 550-gallon double-walled fiberglass tank used to store unleaded fuel. The 550-gallon UST was reportedly installed with leak and integrity testing devices. No leaks or tank failures were reported. Based on the presence of the leak detection system, samples were not collected in this area in 1997 (URS 1997). The 2019 Phase I ESA indicates that the 550-gallon UST was closed in place at the Site in 2000 although closure and removal documentation was not available for review by ERM.

The 1997 Phase II ESA indicates that Edison Drawing 5625202 identifies a UST near a carport area, as shown on Figure 3. Geraghty & Miller conducted a geophysical survey in the area identified and did not identify a UST in this area but concluded that a UST may be found in this area during Site redevelopment.

In addition to the USTs, a distillate line runs beneath the ground from the distillate AST in the southern portion of the Site to peaker Unit 5, as shown on Figure 3.

The Subject Property was identified in the historical UST (HIST UST) and the Statewide Environmental Evaluation and Planning System (SWEEPS) UST databases of the EDR report. The

EDR report HIST and SWEEPS UST databases include 53 UST listings at the subject property address, some of which appear to be duplicate listings.

2.1.3 Aboveground Storage Tanks (ASTs)

Path Forward assessed the subject property for indications of ASTs (*e.g.*, pavement bolts, containers, reservoirs, and generators). Path Forward observed one AST that is currently in use for fueling Site vehicles: a 250-gallon AST used to store gasoline in the southeastern portion of the Site, as shown on Figure 2. The AST appeared to be in good condition, absent of leaks and staining. Other ASTs observed on the Site have been drained and properly closed as documented in the Closure Report discussed in Section 2.1.1. The ASTs were observed to be in fair to good condition and many were marked with spray paint indicating the tanks were "closed." ASTs that were formerly used to contain hazardous materials were equipped with secondary containment or were located in the power blocks which are equipped with floor drains that discharge to oil-water separators, as discussed in Section 2.1.4.

2.1.4 Liquid Waste

Path Forward assessed the subject property for indications of liquid waste discharge sources (*e.g.*, sumps, drains, clarifiers, pools of liquid, pits, ponds, lagoons, septic systems, wastewater, and storm water). Path Forward observed the following liquid waste discharge sources.

Sanitary wastewater generated at the subject property discharges to four on-Site septic tanks. The location of the septic systems is shown on Figure 3. Records reviewed indicate that the septic system located east of the maintenance shop consists of a 7,000-gallon tank with five inline 3,000-gallon seepage pits located downstream in the parking area of the shop building. Records indicate that this system backed up in 1996.

Process wastewater is not currently generated at the subject property. Floor drains and catch basins are located throughout the subject property. The drains and catch basins discharge to sumps and retention basins located on the subject property. The basins that are located on the subject property are shown on Figure 3 and discussed below.

- Two retention basins, identified as the north and south retention basins, are located in the southeast portion of the subject property. The basins have a gunite base and are lined with a poly liner. The basins formerly received water from an oil-water sump located north of Unit 4. An oil-water separator in the south basin removed oil remaining in the water and discharged water to the basins. Wastewater from the basins was periodically discharged to two lines that lead to the off-Site La Verne or Chino Wastewater Treatment facilities. The basins were cleaned as a part of the closure activities discussed in Section 2.1.1.

- The boiler water washdown basin, which is also identified as the chemical cleaning basin, is in the southeasternmost corner of the subject property and is lined with a

combination of gunite, geo-netting, and poly liner. The basin was previously used to retain wash down from on-Site boilers. By 2006, facility personnel stated that boiler water washdown instead was directed to Baker tanks (URS 2007).

- A retention basin located adjacent to the reverse osmosis facility in the south-central portion of the subject property was used to contain mineralized water that was a by-product of the reverse osmosis process. Water from the basin was used in the cooling towers. The basin was cleaned as a part of the closure activities discussed in Section 2.1.1.

- The cooling tower makeup water basin is located in the northeast corner of the subject property. Currently, the basin is used to store stormwater. Previously, water from three water production wells, Colorado River water, and reclaimed water was stored in the basin. The water was pumped through the cooling towers and made five loops before being discharged to the off-Site wastewater treatment facilities in La Verne and Chino. The 2007 Phase I ESA indicates that 17,395,000 gallons of wastewater was discharged in December 2006 (URS 2007).

- One former cooling tower sludge basin is located adjacent to the south side of the Units 1 and 2 cooling towers, as shown on Figure 3. The cooling tower sludge basin was not in use in 2007. Instead, sludge generated during cooling tower cleaning was placed in 20-yard roll-off containers that allowed water to be leached from the bins (URS 2007).

Three sumps are present around Generating Units 3 and 4. One sump on the north side of the units discharges to the north and south retention basins. One sump located in the powerblock discharges to an oil-water sump. An oil sump is located just south of the oil-water sump. Sumps in Generating Units 1 and 2 are reportedly similar in layout to those in Units 3 and 4. According to Site personnel, the sumps are not active. Storm water that collects in the sumps is manually discharged to the retention basins when necessary. During the Site visit an oily sheen was noted on accumulated stormwater within these sumps.

The 2019 Phase I ESA indicates that the Etiwanda Generating Station received a Notice of Significant Noncompliance (Enforcement Action Number 0192569) from the County of Sanitation Districts of Los Angeles on February 27, 2019. According to the violation, GenOn was found to be in violation of the Site's wastewater discharge permit requirements on at least one occasion in 2018. As a result, GenOn was included in the list of dischargers in Significant Noncompliance for 2018. Chronic and Technical Review Criteria (TRC) violations were determined for soluble sulfide on December 31, 2018 (ERM 2019).

Stormwater runoff at the subject property is directed through two main north-south conveyances, Chadwick Channel and a 30-inch storm drainpipe.

- Chadwick Channel is a unvegetated channel constructed of native soils that enters the subject property from the north between the cooling towers for Units 3 and 4. The

channel is six feet deep and 60 feet wide at the channel bottom. The surface channel trends west on the south side of the Unit 4 cooling tower and then trends south exiting the subject property to the southwest of the reverse osmosis retention basin, as shown on Figure 3. The channel terminates at an off-Site retention/energy dissipation basin south of the subject property. The surface of the channel was dry at the time of the Site reconnaissance.

- A 30-inch storm drainpipe enters the subject property at the east end of the cooling tower for Unit 3. The drain runs south and exits the subject property near the former distillate AST.

According to facility personnel, stormwater runoff from facilities to the north of the subject property commingles with runoff from the subject property. GenOn tests the storm drain influent and effluent twice per rainy season.

GenOn formerly maintained coverage under the General Permit for Storm Water Discharges Associated with Industrial Activity. The Central Valley Regional Water Quality Board approved the Notice of Termination (NOT) for the Subject Property on September 13, 2018 and the permit was terminated. ERM conducted a review of historical sampling results related to the former storm water permit maintained at the Site and found that exceedances of metals have been detected in surface water samples originating from off-Site sources (ERM 2019).

2.1.5 Solid Waste

Path Forward assessed the subject property for indications of solid waste disposal (*e.g.*, mounding, depressions, fill material, bins, debris, and active human use). Path Forward observed no such indications with the exception of municipal trash and recyclables generated in the administration building.

During operation of the power generating facility, SCE was registered as a large quantity generator (>2,200 pounds/month) and was issued Generator ID No. CAD008302903 on April 7, 1998. URS provided the following hazardous waste generation information based on review of a 2006 business plan and information from facility personnel (URS 2007):

Name of Waste	**Size of Largest Container**	**Approximate Quantity**
Asbestos	10,000 pounds	50,000 pounds/annual
Grit/Duct Sweep	6,400 pounds	1,000 pounds/annual
Cooling Tower Sludge	48,000 pounds	750,000 pounds/every 5-10 years
Cooling Tower Wood	80,000 pounds	750,000 pounds/annual
Grease, Fuel Oil, Tar	55 gallons	8,000 gallons/annual
Mercury Debris	50 pounds	5 pounds/annual

Name of Waste	Size of Largest Container	Approximate Quantity
Mercury	50 pounds	0 pounds in 2006
Oil, Debris, Soil	500 pounds	20,000 pounds/annual
Oil/Water Separator Sludge, Solid	5,000 gallons	250,000 pounds/every 8-10 years
Oil with Solvent	55 gallons	100 gallons/annual
Paint Chips/Debris with Lead	300 pounds	200 pounds/annual
Paint Solids/Sludge	55 gallons	25 gallons/annual

Records reviewed during this assessment indicate that two areas of the former SCE property, which includes the subject property, may have formerly been used as construction debris landfills. One area in the northwest portion of the subject property is identified in previous reports as Landfill 1 and is located on the subject property. The second landfill area was located southeast of the southeast fuel tank in a location that is not on the subject property. Investigations conducted in the on-Site landfill area are discussed in Section 5.5.

2.1.6 Polychlorinated Biphenyls (PCBs)

Path Forward assessed the subject property for indications of PCBs (*e.g.*, transformers, capacitors, elevators, and lifts). Transformers are located throughout the subject property including adjacent to the four power generating units and cooling towers. The 1997 Phase I ESA indicates that the transformers present in 1997 contained oil with less than 50 ppm PCBs. The transformers were reported to have contained oil with higher concentrations of PCBs prior to 1976. The Closure Report documents transformers that were drained during the 2018 closure activities and prior to 2018. The Closure Report also documents the transformers that continued to remain in service post-closure. Figures and tables showing the locations of the transformers are included in Appendix C.

SCE records reviewed during the 1997 Phase I ESA indicate that transformer leakage had generated approximately 80 tons of transformer oil-containing soil in 1991. The records indicate that off-Site thermal treatment was recommended for the soil. No records of off-Site disposal was found in the records reviewed.

2.1.7 Wells

Path Forward assessed the subject property for indications of supply, irrigation, monitor, injection, dry, abandoned, or other wells (*e.g.*, protruding pipes, cover plates, pumps, small sheds, large water storage containers, and mounded grout). Path Forward observed one well in the northern portion of the subject property. The well is identified as a stilling well in records reviewed for this assessment. According to facility personnel, the well is not currently in use.

Two production wells identified as the East Well and Central Well that were located south of the subject property, as shown on Figure 4, formerly provided process water to the subject

property. An additional production well was installed on the subject property in 2006, on the southern portion of the subject property southwest of the reverse osmosis basin. The well, which was identified as the West Well (see Figure 4), was decommissioned in 2019 as documented in the West Well Closure Memorandum prepared by ERM and dated February 3, 2020 (ERM 2020).

As discussed in Section 5.5., groundwater monitoring wells historically were installed on and south of the subject property to investigate impacts from the retention basins. The locations of these wells are shown on Figure 4.

2.2 Adjoining Property and Surrounding Area Use

Adjoining property and surrounding area use are primarily commercial/industrial.

- North: Railroad tracks, beyond which are industrial properties occupied by CMC Steel California (12459 Arrow Route), Central Transport (8822 Etiwanda Avenue), and Bernell Hydraulics (8810 Etiwanda Avenue).
- South: SCE Switchyard and Inland Empire Utilities Authority ASTs, which are used to store reclaimed water.
- East: Etiwanda Avenue, beyond which is a vacant building that was formerly occupied by All State Recycling (8889 Etiwanda Avenue), a bail bonds office (12951 Napa Street), and vacant land.
- West: Undeveloped, vacant land.

Photographs of the adjoining properties are presented in Appendix A.

3.0 USER PROVIDED INFORMATION

ASTM E 1527 defines “user” as the party seeking to use Practice E 1527 to complete an environmental site assessment of the subject property, and in this case, the user is Black Creek Industrial Acquisitions, LLC. Andrea Karp, on behalf of the user, is unaware of any environmental liens, AULs, or any other environmental issues associated with the subject property. During this ESA, the property owner provided information to the User for review by Path Forward, as noted in Section 5.5.

4.0 INTERVIEWS

4.1 Current Owner, Operators, Occupants

On September 17, 2020, David Grunat and Karen Smith of Path Forward interviewed Jon Sacks of GenOn and Steve Williams of ERM, representatives of the subject property owner. According to Mr. Sacks, he has no environmental information regarding the subject property beyond the records that were provided during this ESA (as discussed in Section 5.5).

4.2 Past Owners, Operators, and Occupants

Path Forward did not identify past subject property owners, operators, and occupants for interviews except for a phone interview with the DTSC in which representatives from past owner, SCE, participated, as discussed in Section 4.4 below.

4.3 Nearby Property Owners and Occupants

The subject property is not abandoned. Therefore, Path Forward did not interview nearby property owners and occupants.

4.4 Government Officials

Path Forward participated in a call with representatives from DTSC, GenOn (current subject property owner), and SCE (former subject property owner) on October 14, 2020. DTSC confirmed that SCE is required to prepare a RFI for the subject property. SCE confirmed they are in the process of preparing an RFI workplan.

Prior to submitting the RFI workplan to the DTSC, SCE plans to conduct a data gap soil sampling event to provide analytical data for selected areas of the Etiwanda Generating Station. SCE submitted a workplan for the data gap soil sampling event to DTSC on October 15, 2020. The workplan indicates that soil samples will be collected at one hypochlorite tank/sump, three sulfuric acid ASTs and two auxiliary transformers located on the subject property (SCE 2020). SCE stated that the data from the soil sampling event would be included in the RFI workplan along with other data previously collected at the subject property. SCE does not plan to conduct additional sampling in other inaccessible areas of the subject property, such as beneath the generating units and peaker unit. SCE stated that impacts identified in these areas during Site redevelopment will be managed in accordance with a Soil Management Plan that will be proposed in the RFI.

During the call, SCE representatives noted that the 1998 PSA limits SCE's liability for environmental impacts at the subject property until the fifteenth anniversary of the closing of the sale of the subject property. The environmental impacts are defined in the PSA in Article I, Section 1.1.(e) as follows:

"Existing Soils Contamination" shall mean the actual presence prior to the closing of hazardous materials in the soil or groundwater of the real properties included in the assets , as well as migration through soil or groundwater of hazardous materials actually present prior to the closing in the soil or groundwater of the real properties included in the assets, if (i) the seller, as of the date hereof and the closing date, has knowledge of such presence of such hazardous materials, it being agreed that seller has knowledge of matters disclosed in the Phase I and Phase II environmental assessments referred to in Section 3.7 and of matters otherwise disclosed in Schedule 3.7, (ii) such presence of such hazardous materials prior to the closing is demonstrated through the tests that buyer is entitled to make under Section 6.4, or (iii) such

hazardous material are proven by clean and convincing evidence on or before the fifteenth anniversary of the closing to have been present in such soil or groundwater prior to the closing."

As discussed during the phone call, SCE maintains that they are only responsible for arsenic impacts identified in soil near the Units 1 and 2 cooling towers and that GenOn is responsible for other impacts that have been identified since 2013 and that may be discovered during Site redevelopment. SCE's consultant, Northgate Environmental, prepared a Cooling Towers Removal Activities Memorandum dated September 23, 2019 that outlines the excavation activities planned in the immediate vicinity of the Units 1 and 2 cooling towers (Northgate 2019).

5.0 RECORDS REVIEW

Path Forward reviewed records pertaining to the subject property. In addition, where warranted and practical, Path Forward reviewed records pertaining to adjoining and nearby properties.

5.1 Physical Setting Sources

5.1.1 Physiography

Path Forward reviewed the United States Geological Survey's (USGS) 2012 7.5-minute Series Guasti Quadrangle Topographic Map. The ground surface elevation at the subject property is approximately 1,090 to 1,130 feet above mean sea level (msl) with a slight downward slope to the south. Surface water at the subject property drains via overland flow towards the southern boundary of the subject property. Surface water from northern surrounding properties enters the subject property via the Chadwick Channel, a drainage ditch, which transects the subject property from the north to the south, as shown on Figure 2. The channel originates off-Site to the north and extends beneath the northern adjoining railroad tracks prior to entering the subject property. This channel is six feet deep and 60 feet wide at the channel bottom and terminates at an off-Site retention/energy dissipation basin north of 6th Avenue before entering the regional municipal storm collection system.

5.1.2 Geology

The subject property is located near the junction of the Transverse Ranges and Peninsular Ranges physiographic provinces. The subject property is in a basin on the Pacific side of the San Gabriel Mountains and is on a broad, gently sloping inland alluvial fan. The basin is predominantly an urbanized landscape situated on gently sloping Late Quaternary (Pleistocene and Holocene) alluvial deposits from the Santa Ana River that drains this area of the Transverse Ranges and northern Peninsular Ranges southeastward toward the Pacific Ocean.

The geology of the subject property is composed of igneous and metamorphic Mesozoic crystalline basement to the north and Late Quaternary basin fill deposits. Most of the sediments in the area of the subject property are alluvial and colluvial deposits composed of interbedded clays, silts, sands, and gravels up to 1,000 feet thick. Investigations conducted at the subject property indicate that the upper 450 feet of sediments beneath the subject property is comprised of layered sands and clays with localized gravel (Jamison 2011).

5.1.3 Hydrology

The subject property is located within the Baja Sub Area of the Mojave River groundwater basin. There are two aquifers located in the vicinity of subject property: the Floodplain Aquifer and the Regional Aquifer. The Floodplain Aquifer is made up of the modern Mojave River alluvium, which consists of unconsolidated permeable, coarse sands and gravel extended to a depth of approximately 200 feet bgs. The Floodplain Aquifer is the principal aquifer system in the area and overlies the Regional Aquifer, which is approximately 500 feet bgs below the subject property and much deeper in other areas to the east and west. The Floodplain Aquifer consists of less permeable alluvial fan deposits and older Mojave River alluvial deposits.

Records reviewed indicate that depth to groundwater in wells formerly located on the subject property is approximately 420 feet bgs. The groundwater flow direction is to the southwest.

5.2 Historical Use Information

The following table summarizes historical uses and occupancies of the subject property as identified by the ESA. Details of reviewed records are discussed below.

Years	Development/Use
1938 to 1951	Agricultural use.
1951 to present	The subject property was developed with an electric power generating facility which utilized four oil/gas fired boilers for steam generation and a single gas/distillate fired peaker unit with various storage tanks, equipment, and structures designed to contain petroleum products including, but not limited to, natural gas, No. 6 fuel oil, distillate (jet propellants [JP-5]), lubricating oil, displacement oil, gear oil, mineral oil, gasoline fuel, and waste oil. The predominant structures located on the subject property included large cooling towers aboveground steel tanks used to store petroleum products, process units that included boilers, tanks and various mechanical equipment and vessels, retention basins, and buildings used for offices and control and maintenance operations. The north and south retention basins were constructed in 1952. The boiler chemical cleaning basin was constructed in 1979. The process units are also referred to as powerblocks. The powerblock equipment converts energy from a fuel (fuel oil, distillate, or natural gas) to electricity. Contained within the powerblocks are various structures (such as battery rooms, lube oil rooms, elevators, various sumps, and control rooms) and equipment (such as boilers, pre-heaters, blowers, and turbines). Powerblock Units 1 and 2 began operations in 1953; Units 3 and 4 began operations in 1963. Peaker Unit 5 began operation in 1970. Unit 5 was used to generate

Years	Development/Use
	additional electricity during high demand hours. Units 1, 2, and 5 were decommissioned in 2003. Power generating operations were discontinued at the subject property when Units 3 and 4 were decommissioned in June 2018. Commercial and residential development in the subject property vicinity occurred during this time period as well. Additional power generating equipment including ASTs and an electric substation were developed on the properties to the south beginning in the 1950s. Development of the CMC Steel facility located north of the subject property also began in the 1950s. A recycling facility located near the northeast corner of the subject property began operations in the 1970s.

SCE owned and operated the Etiwanda Generating Station from 1953 to 1998 when it sold the subject property portion of the generating station to Alta Power Generation LLC, an early predecessor of GenOn. SCE retained the areas to the west and south of the current subject property boundary, including a former tank farm with several fuel oil ASTs, a switchyard, and undeveloped land.

5.2.1 Fire Insurance Maps

Path Forward requested a search of historical Sanborn Fire Insurance Maps from the Environmental Data Resources, Inc. (EDR) collection. According to EDR, such maps are not available.

5.2.2 Aerial Photographs

Path Forward reviewed aerial photographs of the subject property, adjoining properties, and surrounding area obtained from EDR. Photograph summaries follow:

Years Listed	Subject Property and Adjoining Property Uses
1938, 1949	The subject property is a vacant parcel that appears to be used for agricultural purposes.
1953	The subject property appears to have been developed with the power generating facility. Many of the structures that are currently located on the subject property are evident except for Units 3 and 4 and their associated cooling towers and Unit 5. An unlined drainage channel is present in the middle of the property between the north and south property boundaries. Railroad tracks are evident along the northern property boundary. Development south of the subject property includes an electric substation and four ASTs adjacent to the southwest portion of the subject property.
1959	The subject property is generally unchanged except for the northwestern portion of the subject property which appears to be used for agricultural purposes. In addition, the cooling tower sludge basin is evident on the south side of the cooling towers for Units 1 and 2. An industrial operation has been developed on the property to the north of the subject property.

Years Listed	Subject Property and Adjoining Property Uses
1966	Units 3 and 4 and their associated cooling towers are evident on the 1966 aerial photograph. Four additional ASTs are evident on the property to the southwest of the subject property.
1975	The peaker unit (Unit 5) and the distillate AST in the southeast corner of the subject property are evident on the subject property. Additional industrial development is evident on the property to the north of the subject property. The property located across Etiwanda Avenue near the northeast corner of the subject property has been developed with a commercial operation.
1985	Two additional retention basins are evident on the subject property: the reverse osmosis basin to the south of Units 3 and 4 and the boiler water washdown basin in the southeast corner of the subject property. Additional commercial and industrial development is evident north and south of the subject property.
1990, 1994	The subject property is generally unchanged. Additional industrial development is evident north of the subject property.
2005	The subject property is generally unchanged. Four ASTs located south of the subject property have been removed.
2009, 2012, 2016	The subject property is generally unchanged. Additional commercial and industrial development and redevelopment is evident north of the subject property.

5.2.3 Topographic Maps

Path Forward reviewed USGS topographic maps of the subject property, adjoining properties, and surrounding area from the EDR collection. Map summaries follow.

Years	Scale	Subject Property and Adjoining Property Uses
1897, 1900, 1903, 1944	1:62,500	The subject property and surrounding properties appear to be unused. A railroad track is located along the northern subject property boundary.
1941	1:24,000	The subject property appears to be unused.
1953, 1954	1:24,000	The subject property has been developed with a power plant. Five oil ASTs are located southwest of the subject property. The Kaiser Steel Plant is located southeast of the subject property beyond land used for agriculture.
1966, 1973, 1976, 1981	1:24,000	The subject property appears similar to earlier maps. Additional ASTs are located southwest of the subject property. Development of the property located north of the subject property is evident.
2012	1:24,000	The subject property and surrounding area are not depicted with features or uses except for the pond and one retention basin on the subject property.

5.2.4 Local Street Directories

Path Forward reviewed local street directory entries for the subject property and adjoining/nearby properties that EDR researched in approximately five-year intervals between the years 1922 and 2017. The subject property address is listed as follows:

Address	Year(s)	Tenants
8996 Etiwanda Avenue	1985	Etiwanda Av Fon (sic), Sephton Wtr Technlgy (sic)
	2004, 2009	Reliant Energy
	2014	GenOn
	2017	NRG Energy

5.3 Regulatory Agencies

Path Forward requested records of the following agencies to obtain information regarding the subject property.

5.3.1 Tax Assessor

Path Forward reviewed records on the website of the San Bernardino County Assessor. According to the Assessor's website, the assessor's parcel number (APN) assigned to the subject property is 0229-283-79-0000. The current Assessor's Parcel Map indicates the subject property consists of 65.71 acres.

The subject property owner is currently identified as RRI Energy Etiwanda, Inc. (EDR 2020). The subject property has historically been owned by SCE and various other entities, as discussed in the 2019 Phase I ESA:

"Alta Power Generation LLC., a subsidiary of Houston Industries Inc. and early predecessor of GenOn, acquired the subject property from SCE in 1998. In 1999, Houston Industries Inc. changed its name to Reliant Energy and subsequently to RRI Energy. In 2010, RRI Energy and Mirant Energy merged to form GenOn Energy, Inc. In 2012, NRG Energy Inc. (NRG) merged with GenOn, doing business under NRG's name. GenOn officially separated from NRG in December 2018 and GenOn facilities are no longer associated with NRG. According to information provided by GenOn, the current Site owner is GenOn California South, LP, a subsidiary of GenOn Holdings, Inc."

5.3.2 Building Department

Path Forward accessed Rancho Cucamonga's Online Permit Center on September 21, 2020. Building permit applications dated 2001 and 2013 were available for review and included applications, plans, and permits for tenant improvements related to electrical, mechanical, plumbing, roofing, air conditioning, and fire systems at the subject property.

5.3.3 Fire Department

Path Forward reviewed records available from both the Rancho Cucamonga Fire Department and San Bernardino County Fire Department. These records are discussed in the following sections.

5.3.3.1 Rancho Cucamonga Fire Department

Path Forward submitted a written request for records pertaining to the subject property parcel to the RCFD on September 15, 2020. The RCFD responded in an email dated September 15, 2020 that records requests should be submitted to the SBCFD, which is the CUPA for Rancho Cucamonga.

Based on a review of the 2007 Phase I ESA, the following records were previously filed at the RCFD (URS 2007). Path Forward was not provided with these RCFD files during this assessment.

- A partially completed application for a permit to store and use 2,000 pounds of hydrogen gas and 300,000 gallons of JP5 fuel was included in the RCFD file. The permit was not dated or signed.
- A permit application dated November 11, 1999 to remove a UST at the Etiwanda facility was filed with the RCFD.
- A construction inspection record dated January 13, 2000, was prepared by the RCFD. The inspection covered the removal of a 500-gallon fiberglass UST from the Etiwanda facility. No noncompliance was observed. The inspection report indicated the UST was removed and transported offsite. Although a copy of the closure report was requested, the report was not contained in the file.

5.3.3.2 San Bernardino County Fire Department

Path Forward submitted a written request for any records pertaining to the subject property parcel to the SBCFD, which is the Certified Unified Program Agency (CUPA) for Rancho Cucamonga, on September 15, 2020. The SBCFD responded via email on September 21, 2020 that records are available for the subject property address and Path Forward Partners reviewed available records at the SBCFD on October 9, 2020. Available records are discussed below.

5.3.3.2.1 UST Records

An October 13, 1985 report provided the results of a soil investigation for three USTs (120-gallon naphtha, 550-gallon kerosene, and 550-gallon unleaded gasoline) that were removed in 1986. Five soil borings were advanced to 49 feet bgs each, and a total of 24 soil samples were collected. All samples were analyzed for TRPH. The highest TRPH result was 11 mg/kg from a sample collected at a depth of 10 feet bgs. The investigation results were submitted to the

County of San Bernardino Department of Environmental Health Services on December 11, 1985. The DEHS reviewed the results and issued a letter dated December 27, 1985 that states "this Department concurs that the levels of contamination found do not present an environmental or public health threat" (SBCDEHS 1985; see Appendix D). After removal of the three USTs, a new 550-gallon UST with secondary containment and continuous monitoring was installed in the same location. Records on file at the SBCFD indicate that the UST was installed in either April 1986 or April 1996.

A UST inspection report dated October 14, 1998 indicates that a UST was installed in April 1996 and contained diesel fuel. The inspection report noted violations for no leak detection monitoring plan, no certification of financial responsibility, and failure to develop a response plan. There was no information in the file regarding a response from Mountain View Generating, which was the Site owner in 1998.

An Underground Storage Tanks form for permanent on-site closure of a 2,000-gallon UST was filed with the CUPA on January 3, 2000. The form indicates that the UST was filled with inert material and closed in place. No information regarding UST contents or location was found in the records reviewed.

5.3.3.2.2. Hazardous Materials Release Records

In a letter dated July 20, 1995, SCE notified the San Bernardino County Environmental Health that a release of non-PCB mineral oil took place on July 14, 1995. Approximately 45 gallons of oil was released and was recovered by removal of soil. SCE reported that the hydrocarbon-affected soil was sent for reclamation and that SCE believed the area affected was fully addressed. No follow-up was in the file.

From June 1999 to May 2011, there were nine reported releases of cooling tower water. The releases ranged in size from 20 to 5,000 gallons of cooling tower water. Releases of oil, mineral oil, and lube oil (50 gallons or less) were also reported. A release of cement/hazardous waste to a stream/river/soil from a pipe on the adjacent Ameron property was recorded in April 2012. Water samples were collected and levels of metals and pH were reportedly below hazardous waste levels. Remediated soil was kept off-Site on the Ameron property and the pipe was repaired to prevent further releases.

5.3.4 Regional Water Quality Control Board

Path Forward submitted a written request for records pertaining to the subject property parcel to the Santa Ana RWQCB on September 8, 2020. The Santa Ana RWQCB responded in an email dated September 23, 2020 that records are available for the subject parcel address. Path Forward reviewed available records at the RWQCB on October 15, 2020. Available records are discussed below.

5.3.4.1 Waste Discharge Order

A Waste Discharge Order (WDO) No. 94-21 Waste Discharge Requirements including an Exemption from Requirements of the Toxic Pits Cleanup Act (TPCA) dated January 28, 1994 was included in the records. WDO 94-21 was transferred to Mountain Vista Power Generation LLC effective January 1, 1998. The WDO exempted the boiler chemical cleaning basin from the requirements of the TPCA. The WDO was rescinded by Order No. 01-67 dated July 20, 2001, because discharges to surface impoundments had ceased.

An inspection report dated September 18, 1996 included inspection of the boiler chemical cleaning basin. According to the report, the basin had not been used for six years. The report concluded that the basin was in good condition with no violations.

5.3.4.2 Tank Study Report

A May 26, 1998 letter, the RWQCB stated that their review of a April 9, 1998 Baseline Tank Study Report, which was not available in the records reviewed, indicates that additional investigation was required in borings where TPH concentrations were increasing with depth. The Baseline Tank Study Report included soil data collected in the "west and east tank areas" at the subject property. The RWQCB letter states that further characterization of these areas could be conducted during remedial activities in these areas. A December 9, 1998 letter from the RWQCB to SCE indicated that, based on a review of the results of sampling contained in an August 21, 1998 report, which was also not available in the records reviewed, no further action was required. A copy of the letter is included in Appendix D.

5.3.5 Department of Toxic Substances Control

Path Forward submitted a written request for records pertaining to the subject property parcel to the DTSC Cypress office on September 9, 2020. DTSC responded in an email dated September 9, 2020 that records are available for the subject property address. Path Forward reviewed available records at the DTSC on October 6, 2020. Available records are discussed below.

DTSC issued a Notice of Violation (NOV) to the SCE Etiwanda facility in a letter dated July 3, 1992. The letter states that SCE stored hazardous waste in the acid retention basin without a hazardous waste storage facility permit.

The Superior Court of the State of California, County of Los Angeles issued a Judgment to SCE on February 1, 1995 requiring SCE to investigate the retention basins at the subject property and other SCE-owned properties. If the investigations determined that releases had occurred, DTSC would issue a Cleanup and Abatement Order. Investigations conducted in response to the Judgment are discussed in Section 5.5.1.

5.3.6 Other Agencies

Path Forward submitted a written request for records pertaining to the subject property parcel to the San Bernardino County Public Health Environmental Health Services (EHS) on September 15, 2020. The EHS responded in an email dated September 15, 2020 that records requests should be submitted to the SBCFD, which is the CUPA for Rancho Cucamonga.

Path Forward searched the South Coast Air Quality Management District (SCAQMD) Facility Information Detail (FIND) database on September 15, 2020. The facility address is not listed in the FIND database.

Path Forward submitted a written request for records pertaining to the subject property parcel to the California Department of Resources Recycling and Recovery (CalRecycle) on September 29, 2020. CalRecycle responded in an email dated October 9, 2020 that they do not have records for the subject property address.

5.4 Activity & Use Limitations (AULs)

Path Forward reviewed a report of title and judicial records prepared by EDR for indications of environmental liens and AULs recorded against the subject property. No environmental liens or AULs were identified.

5.5 Prior Reports

Path Forward reviewed several reports provided by the client or available from regulatory agencies.

5.5.1 1995 Judgment

The Superior Court of Los Angeles issued a Final Judgment pursuant to Stipulation on February 1, 1995 (No. BC121219). The Stipulation alleged that SCE had stored hazardous wastes in unpermitted surface impoundments at 11 of their power generating stations in California, including the Etiwanda Generating Station, in violation of the Hazardous Waste Control Law. In response, SCE agreed to conduct RCRA closure of three surface impoundments (two wastewater retention basins and one boiler chemical cleaning basin) and the associated pipelines and appurtenances that connect the basins to the power generating units at the subject property according to Chapter 15 of Title 22, California Code of Regulations. The remainder of the subject property was ordered to be evaluated under RCRA corrective action.

Eight hazardous waste management units (HWMUs) were identified at the subject property:

- North Wastewater Retention Basin
- South Wastewater Retention Basin

- Boiler Chemical Cleaning Basin
- Units 1 and 2 Fireside Wash Drain System
- Units 3 and 4 Fireside Wash Drain System
- Units 3 and 4 Fireside Wash System Sediment Trap
- Units 1 and 2 Boiler Acid Wash Drain System
- Units 3 and 4 Boiler Acid Wash Drain System

SCE conducted investigations to determine whether the basins or associated conveyance systems (pipelines), which together are identified as the "Retention Basin Site" in investigation documents. In 1996, a soil and soil vapor investigation was conducted to determine whether the Retention Basin Site had released wastewater to the underlying soil. If a leak was detected, the nature and extent of the impacts were to be investigated. The results of the investigation indicated that leakage had occurred beneath the surface impoundments as a result of elevated metal concentrations, low pH values, and the presence of volatile organic compounds (VOCs) in some soil samples. Based on these results, SCE conducted additional investigation activities in three phases of investigation between 1997 and 1998. The investigations concluded that leakage had occurred through the basin liners causing limited changes in the native soil chemistry. Based on these findings, SCE submitted a Water Quality Monitoring Program (WQMP) to the DTSC in June 2001.

After DTSC approval of the WQMP, SCE installed four groundwater monitoring wells (EW-1, EW-2, EW-3, and EW-4) in April 2002. The initial groundwater sampling event took place in the second quarter of 2002. The results of the sampling event showed that the flow direction was more westerly than expected and that no wells were downgradient of the north and south retention basins. Thus, two additional wells (EW-5 and EW-6) were installed downgradient of the retention basins. The locations of the wells are shown on Figure 4. The wells were sampled between 2002 and 2009. Monitoring results are summarized in the 2009 Annual Groundwater Monitoring Report (Hamilton 2010).

A Closure Documentation Report (CDR) submitted to the DTSC in 2011 summarizes the data collected for the Retention Basin Site closure project (Jamison and Associates 2011). The CDR concluded that the extensive sampling and resultant analytical data illustrates a complete characterization of the soil beneath the retention basins and associated pipeline system. The CDR also concluded that there is no direct pathway for leakage to impact the groundwater, that there is no evidence of a continuous leak of wastewater to the sediments, and that groundwater samples collected from EW-3 and EW-4 are from a different water source than those collected from the other four wells.

The metal chemicals of potential concern (COPCs) identified for soils under the retention basins are arsenic, antimony, mercury molybdenum, nickel, silver, and thallium based on the data collected and analyzed. Other COPCs identified for soil include six VOCs (chloroform, chloromethane, styrene, tetrachloroethene, toluene, vinyl chloride), one semivolatile organic compound (SVOC) (butyl benzyl phthalate) and dioxin/furans (evaluated as 2,3,7,8-TCDD-equivalents). No COPCs were identified for groundwater. The CDR indicates that the investigations did not detect metal or VOC parameters that would indicate a change in the groundwater between the background and compliance wells.

The retention basins were found to meet closure requirements for the soil and groundwater COPCs based on the results of a human health risk assessment that concluded that human health risks are within acceptable limits for future unrestricted industrial or residential use and that groundwater use is also acceptable for unrestricted use. The environmental and ecological scoping-level risk assessment determined that ecological exposure pathways are incomplete.

The DTSC reviewed the CDR and issued a Closure Certification Acknowledgment letter on December 29, 2011 (DTSC 2011). The letter states that the DTSC considers the Retention Basin Site as being officially closed on December 20, 2011 and confirms that the Retention Basin Site has been investigated. A copy of the letter is included in Appendix E.

5.5.2 Phase I ESA (CH2MHill 1997)

CH2MHill prepared a Phase I ESA in 1997 and identified three RECs and ten areas of concern (AOCs).

RECs identified in the 1997 Phase I ESA:

- CH2M HILL personnel observed what appeared to be an oily substance and staining in the unlined Chadwick Channel and considered Chadwick Channel to be a REC.
- As a result of visual evidence of a small spill or leak inside the secondary containment area of the northwest fuel oil tank, the area was identified as a REC.
- The presence of petroleum hydrocarbon-affected soil in the AST areas was identified as a REC.

AOCs identified in the 1997 Phase I ESA:

- Past use of the retention basins made them subject to an investigation under an order by the DTSC; based on the ongoing investigation, CH2M HILL designated the retention basins an AOC.
- As a result of the presence of a white powdery substance near the sulfuric acid tank near the cooling towers, CH2M HILL designated the white powdery area an AOC.

- As a result of the former practice of placing cooling tower sludge (possibly containing chrome and arsenic from treated wood) in an unlined leaching basin, CH2M HILL designated the former leaching basin an AOC.

- As a result of the possible presence of a landfill area near the west end of the subject Property, CH2M HILL designated the possible landfill an AOC.

- As a result of the presence of oil in a recessed sump valve box near the fuel oil pumping system in the tank farm, CH2M HILL designated the sump box an AOC.

- SCE reported that the primary fuel oil pump area and the truck loading area were the locations of possibly contaminated soil. As a result of the potential for subsurface contamination, CH2M HILL designated these areas AOCs.

- As a result of the presence of a transformer that contained PCB-bearing oil and the possibility of a PCB release, CH2M HILL designated the transformers AOCs.

- As a result of oil staining in the powerblock areas near equipment that contained oil, CH2M HILL designated the oil stained area an AOC.

- As a result of the presence of untested subsurface and aboveground piping that conveys fuel oil from oil tanks to the powerblock, CH2M HILL designated the piping an AOC.

- As a result of the presence of arsenic and chrome-treated wood in the cooling towers and the possibly that soil beneath the cooling towers may be impacted by contaminants that leached from the treated wood, CH2M HILL designated the cooling tower areas AOCs.

5.5.3 Phase II ESA (Geraghty & Miller 1997)

Geraghty & Miller (G&M) conducted a Phase II ESA to evaluate the environmental condition of the subject property by investigating RECs and AOCs identified in the 1997 Phase I ESA. Geraghty & Miller investigated 31 areas with the potential for historical or current releases of hazardous substances or petroleum products at the subject property and off-Site areas that were also owned by SCE in 1997. The Phase II report indicates that three retention basins (two general and one reverse osmosis) and the adjacent acid and caustic tanks and the boiler chemical cleaning basin were not addressed by G&M because of the ongoing investigation by SCE that was being conducted under the order of DTSC. Geraghty & Miller's conclusions and recommendations for the remaining areas are summarized below.

At four of the site features, no further action was recommended at this time; however, agency negotiation and additional sampling may be required as part of decommissioning at the following features. URS expects that any work associated with these site features will remain the responsibility of SCE (URS 1997):

- ASTs: Soil investigation around ASTs was limited and additional sampling may be required.

- Transformers: TPH and PCBs detected below screening criteria. Investigation around the transformers was limited due to restricted access.

- Powerblock: Sampling around the powerblock found in TPH, metals, and PCBs below the screening criteria; however, the investigation was limited due to restricted access.

- Possible UST: The Phase II geophysical survey and soil sampling did not identify the location of the UST identified in SCE files. The UST may be discovered during Site redevelopment.

Of the thirty-one features identified, six were noted as needing further action although one of the features was an off-Site landfill located southeast of the subject property:

- Surface water discharge: Arsenic was detected at concentrations above screening criteria in soil samples collected at points of surface water discharge.

- Pipelines: TPH was detected in soil at concentrations below screening criteria and arsenic was detected above screening criteria. Some excavation activities were conducted and a portion of the pipeline was removed. The report notes that the pipeline was determined to be lined with lead and a portion of the pipeline remained on the subject property.

- Units 3 and 4 cooling towers: Arsenic was detected at concentrations above screening criteria in soil samples collected near the cooling towers. In addition, due to restricted access, no samples were collected to evaluate the former incinerator located near Cooling Unit 3.

- Sulfuric acid storage tanks: Arsenic was detected at concentrations above screening criteria in soil samples collected near the storage tank located at Cooling Tower 3.

- Former water softener and brine pit: Arsenic was detected at concentrations above screening criteria in soil samples collected near the former water softener and brine pit.

Based on the Phase II investigation, the following site features were identified as requiring no further actions: waste discharges (from off-Site sources), underground storage tanks, AST containment structures, hazardous waste storage area, solid waste disposal area (landfill), scrap metal yard, septic systems, site of 1995 reported transformer oil spill, peaker unit floor drain and sumps, switchyard perimeter, boiler wash water storage tank area, and Units 1 and 2 cooling tower sludge dewatering basin. Four off-Site areas were also identified in the Phase II report: vineyard water tank, bone yard (laydown area), utility pole storage, and agricultural research area.

Regulatory agency records indicated that the Ameron and TAMCO facilities immediately north of the subject property reported contaminated soil near the Etiwanda Generating Station that may have not been delineated. Based on a review of available investigative data, G&M concluded that it did not appear that releases associated with Ameron and TAMCO had impacted soil on the subject property. Based on the data reviewed, G&M recommended no further action for soil. Groundwater data was not available for review by G&M and was not included in its conclusions and recommendations.

5.5.3 Chadwick Channel Remedial Activities (1997)

The 1997 Phase II ESA indicates former occupants of properties to the north of the Site (TAMCO and Ameron) were responsible for several releases to the Chadwick Channel and other areas located to the north of the Site in the 1980s and 1990s. An investigation conducted in 1985 detected concentrations of arsenic in Chadwick Channel above screening criteria, and concentrations of lead and chromium above hazardous waste criteria. Results of the 1985 investigation were reportedly presented in a Site Characterization Study; however, this report was not readily available for review. SCE received a letter from the RWQCB dated July 22, 1987 that states that, based on review of the "Site Characterization study" that addressed the chemical composition and extent of impact to soil in the drainage channel and spreading basin, which is located south of the subject property, no further remedial action will be required. A copy of the letter is included as Appendix D.

Path Forward reviewed a 1997 Chadwick Channel Site Investigation and Cleanup report that indicates that soil containing nickel at concentrations above the California Total Threshold Limiting Concentration (TTLC) were delineated near the former Unit 4 drain line discharge in Chadwick Channel. Beryllium was also detected at concentrations above its Preliminary Remediation Goal (PRG). The soil was excavated and sidewall and bottom samples confirmed that all impacted soil was removed (SCE 1997).

5.5.4 Arsenic Investigations (2005-2007)

Several investigations have been conducted to determine the extent of arsenic impacts in soil at the subject property. An investigation conducted by Earth Tech in March through May 2005 detected arsenic in shallow soils at concentrations ranging from 160 to 390 mg/kg in the shallow soil in the vicinity of the Units 1 and 2 cooling towers. In August 2005, URS collected additional shallow soil samples in 23 locations in the vicinity of the Units 1 and 2 cooling towers. Arsenic was detected at concentrations between 1.89 and 70.2 mg/kg. URS concluded that elevated arsenic concentrations "do not extend much past the base of the cooling tower units."

The 2010 Soil Characterization Report (SCR) summarizes additional arsenic investigation results and evaluation of arsenic background concentrations. The 2010 SCR was not available for review by Path Forward but is discussed in the 2019 Phase I ESA, as follows:

"Evaluations were completed in 1985, 2005 and 2007 to determine Site-specific background levels for several constituents, including arsenic. The maximum background level for the Site was determined to be 7.4 mg/kg in 1985 and 2 mg/kg in 2005/2007. However, the DTSC approved regional background level for arsenic is 12 mg/kg. Review of analytical data from the 1997 Phase II indicates arsenic levels for three of these areas (surface water discharge, pipelines, and the second solid waste disposal area (Landfill 2) were below the regional background level of 12 mg/kg but above 2 mg/kg. The remaining three areas had a detection above the regional background level of 12 mg/kg (cooling towers 3 and 4 - 17 mg/kg, sulfuric acid storage tanks - 22 mg/kg, and the former water softener and brine pit - 17 mg/kg). To date, limited arsenic impacted soils remain in place at the Site and no further investigations have been completed. These areas will be further evaluated during the RFI for the remainder of the facility." As discussed in Section 4.4, SCE submitted a workplan for excavation of the impacted soils in the vicinity of cooling towers 1 and 2 to the DTSC on September 23, 2019 (Northgate 2019).

5.5.5 Subject Property Investigation (Ardent 2019)

In October 2019, Ardent Environmental Group (Ardent) conducted a site investigation on behalf of a prospective buyer. Ardent provided figures showing soil boring and soil gas sampling locations as well as tables showing analytical results of the soil and soil gas sample analyses. The figures and tables are provided in Appendix F. A report detailing the investigation was not provided by Ardent. The following is information summarized from review of the figures and tables provided.

Soil and soil gas samples were collected from several locations on the subject property, as shown in the following table. The table below also details the chemicals analyzed by the laboratory and the general results of those analyses.

Table 1: Ardent Investigation Summary	**Ardent Table Number**	**Analytes**				
		TPH	Metals	VOCs	OCPs	PCBs
Soil Sample Locations						
Cooling Tower 1 and 2	1		x			
Sludge Drainage Area	2		x			
Cooling Tower 3	3		** (arsenic, lead)			
Cooling Tower 4	4		X			
Chadwick Channel	5	**	x			

Table 1: Ardent Investigation Summary	Ardent Table Number	Analytes				
		TPH	Metals	VOCs	OCPs	PCBs
		(TPH-d)				
Railroad Spur	6		x		x	
Landfill I (a)	7	x	** (arsenic, copper, lead)	x		
Landfill II (a)	8	x	x	x		
Flumes	13		** (thallium)			
Tributary	14	x	x			x
Soil Gas Sample Locations						
Former Hazardous Waste Storage Area	9			x		
Existing Hazardous Waste Storage Area	10			x		
Maintenance Shop	11			** (bromodichloromethane, chloroform, 1,1-DCA, PCE, VC)		
Septic System associated with the Maintenance Shop	12			** (1,1-DCA, PCE, VC)		

Notes:

a = note that Ardent identified two adjacent landfill areas, Landfill I and Landfill II, in the northwestern portion of the subject property (as shown on Figure 2 in Appendix F). The northwestern portion of the subject property has been identified as Landfill 1 in previous reports. It appears that Ardent used the Landfill I and II identifiers to differentiate between two separate areas within the area formerly identified as Landfill 1.

X = samples analyzed for this group of compounds; no chemicals detected above human health and/or disposal criteria

** = samples analyzed for this group of compounds; chemicals listed in parentheses were detected at concentrations above human health and/or disposal criteria (see Ardent tables for details)

OCPs = organochlorine pesticides

PCBs = polychlorinated biphenyls

TPH = total petroleum hydrocarbons

VOCs = volatile organic compounds

1,1-DCA = 1,1-dichloroethane

PCE = tetrachloroethene

TPH-d = TPH as diesel

VC = vinyl chloride

As noted above, a report containing investigation details and a discussion of findings and conclusions was not provided by Ardent. As shown in the table above, soil and soil gas samples in several locations on the subject property contained concentrations of chemicals above human health and/or disposal criteria.

Between May and July 2020, ERM conducted excavation activities in the Landfill I area to address the elevated metal concentrations detected in soil samples in this area during Ardent's investigation, as discussed in Section 5.5.6. below. In September 2020, ERM collected one additional soil sample in an area of "black sand" in the Landfill II area that appeared similar to the area of excavation in Landfill I. The metals concentrations detected were similar to those detected in the Landfill I area. Given that only one sample was collected in this area, the extent of soil with elevated metals concentrations is not known.

No records of additional investigation or remedial activities in the other areas where chemicals were detected at concentrations above screening criteria was provided or found during this assessment.

5.5.6 Excavation Activities in the Northwest Portion of the Subject Property (ERM 2020)

Based on the findings of Ardent's investigation described above, GenOn elected to proactively remove the metals-impacted soil from the northwest portion of the property in the area Ardent identified as Landfill I. Between May and July 2020, ERM and their subcontractor conducted soil removal activities. Soil excavation began at the LFI-1 and LFI-3 test pit locations and were extended based on visual observations, X-ray fluorescence (XRF) analyzer field-screening data, and soil sample analytical results. Approximately 6,445 tons of waste soil was generated during excavation activities. The soil was profiled as non-RCRA hazardous waste and disposed off-Site. The Soil Removal Memorandum prepared by ERM and dated September 22, 2020 states that, based on the results of field screening, visual observations and analytical results of the confirmation samples, all impacted soil containing elevated metals concentrations in the northwest portion of the subject property has been removed. ERM recommended no further action to mitigate this area (ERM 2020). A copy of the Soil Removal Memorandum is included in Appendix G.

6.0 REGULATORY DATABASE REVIEW

Path Forward reviewed a regulatory agency database search report prepared by EDR for the subject property. EDR conducted a search of publicly available information from federal, state, tribal, and local databases for information pertinent to the subject property associated with plotted addresses located within ASTM-specified search distances from the subject property. The database report identifies about 84 facilities as well as the accessed databases.

The subject property address of 8996 Etiwanda Avenue was identified in the following databases searched by EDR:

Site Name:	Southern California, NRG Energy Inc., NRG California South, Etiwanda Generating, EPTC Etiwanda, Etiwanda Launcher Facility, Etiwanda Substation, Inland Empire Utility, 8996 Etiwanda Avenue, North Star Recycling
Databases:	RCRA-SQG, HAZNET, CERS HAZ WASTE, HIST UST, SWEEPS UST, AST, CHMIRS, HWTS, NPDES, CIWQS, LDS, WDS, WMUDS/SWAT, ICIS, EMI, US AIRS, TSCA, ECHO, COAL ASH DOE
Southern California Edison/EPTC/Reliant Etiwanda was registered as a small or large quantity generator of hazardous waste between 1990 and 2016 that has received violations. Over 300 records of hazardous waste manifests for off-Site disposal for various hazardous wastes were filed between 2004 and 2019. The UST listings include details on 53 UST listings at the subject property address; many of these listings are missing information or appear to be duplicate listings. The AST listing indicates that the facility was registered to store a total of 210,850 gallons in ASTs. The CHMIRS listings indicate that releases of cooling tower water (10 to 10,000 gallons) to Chadwick Channel occurred in 1989 through 2015. The CHMIRS listings also include information on releases of lube oil (35 gallons due to broken oil lines on equipment in 2010 and 42 gallons due to rupture of a pressure gauge in 2016). The COAL ASH DOE database indicates that the following byproducts were reported by Etiwanda Generating Station in 2018: fly ash from units with dry FGD, bottom ash from standard boiler units, bottom (bed) ash from FBC units, FGD gypsum, ash from coal gasification (IGCC) units, fly ash from standard boiler/PCD units, and fly ash from FBC units. The remaining listings are related to historical hazardous materials use and storage, wastewater discharges, and air emission registrations and do not indicate that releases have occurred.	

No adjoining properties or nearby properties located up to cross gradient were identified with cases involving releases to groundwater, with the exception of the following:

Site Name:	SA Recycling		
Address:	8822 Etiwanda Avenue		
Distance: 0.047 miles		**Direction:** Northeast	**Relative Elevation:** Higher
Databases:	VCP, Envirostor, CHMIRS, HAZNET, NPDES, San Bern Co Permit, CIWQS, CERS, HWTS		
The Envirostor listing indicates that the facility entered into a voluntary cleanup agreement with DTSC in 2018. Automobile and scrap metal recycling operations were conducted at this facility between 1975 and 2017. Investigations identified metals, TPH, and PCBs in soil samples. Groundwater samples were not collected. DTSC determined that additional action is necessary to assess environmental conditions at the facility. Redevelopment of the property is currently underway. The facility is located upgradient of the subject property; however, given the depth to groundwater in the subject property vicinity (approximately 400 feet bgs), this facility is unlikely to have impacted the groundwater beneath the subject property. As discussed in Section 5.5.3., the 1997 Phase II ESA indicates former occupants of properties to the north of the Site were responsible for several releases to the Chadwick Channel and other areas located to the north of the Site in the 1980s and 1990s. Investigation and remediation of Chadwick Channel was conducted in 1997. It is possible that additional releases from properties located north of the Site, including the SA Recycling property, have impacted the Site via surface runoff to Chadwick Channel.			

Site Name:	TAMCO/Ameron Steel and Wire (Ameron)		
Address:	12459 and 12459 B Arrow Route		
Distance: 0.443 miles		**Direction:** North-northwest	**Relative Elevation:** Higher
Databases:	SEMS-ARCHIVE, RCRA-LQG, Envirostor, LUST, SLIC, UST, VCP, CERS HAZ WASTE, SWEEPS UST, HIST UST, EPA WATCH LIST, HIST Cortese, San Bern Co Permit		
The Envirostor listing indicates the EDR report, various USTs were present on the property from the 1970s through at least the 1990s. The facility was also entered into the Cleanup Program (CPS-SLIC) and the case was closed in 1990. A LUST incident was reported in 1993 and was closed in 1994. The facility was determined to be a non-NPL (SEMS ARCHIVE) site in 1994 and was then entered into the VCP in 1995. The historic use of the facility was reportedly a recycling, scrap metal, and vehicle maintenance facility, and the contaminants of concern include hydrocarbon solvents, metals, and other inorganic solvent wastes. The facility was granted No Further Action status in 1996. The facility is located upgradient of the subject property; however, given the depth to groundwater in the subject property vicinity (approximately 400 feet bgs), this facility is unlikely to have impacted the groundwater beneath the subject property. As discussed in Section 5.5.3., the 1997 Phase II ESA indicates former occupants of properties to the north of the Site were responsible for several releases to the Chadwick Channel and other areas located to the north of the Site in the 1980s and 1990s. Investigation and remediation of Chadwick Channel was conducted in 1997. It is possible that additional releases from properties located north of the Site, including the TAMCO/Ameron property which is currently occupied by CMC Steel California, have impacted the Site via surface runoff to Chadwick Channel.			

7.0 FINDINGS AND OPINIONS

Path Forward identified obvious subject property uses from the present back to 1938, at which time the subject property used for agricultural purposes. The electric power generating facility was constructed by Southern California Edison on the subject property in 1951. Additional equipment and retention basins were added to the facility through 1979. The power generating facility operated on-Site until 2018. In 2003, some of the facility equipment was decommissioned. By 2018, the owner, GenOn, had ceased facility operations and the remaining equipment was decommissioned.

This ESA identified the following findings with respect to RECs, CRECs, HRECs and de minimis conditions, as defined in Section 1.1 of this report:

- Pending RCRA Facility Investigation: The Superior Court of Los Angeles issued a Final Judgment pursuant to Stipulation on February 1, 1995. The Stipulation alleged that SCE had stored hazardous wastes in unpermitted surface impoundments at the company's power generating stations in Southern California, including the Etiwanda Generating Station. As part of the Stipulation, SCE was required to conduct Resource Conservation and Recovery Act (RCRA) closure of three surface impoundments (two wastewater retention basins and one boiler chemical cleaning basin) and the associated pipelines and appurtenances that connect the basins to the power generating units at the subject property according to Chapter 15 of Title 22, California Code of Regulations. The basins

were granted case closure in 2011, as discussed below in the HREC section. The remainder of the subject property was ordered to be evaluated under RCRA corrective action. A Site-wide RCRA Facility Investigation (RFI) is required to evaluate soil beneath inaccessible areas of the subject property (e.g., beneath the powerblock and cooling towers) and to determine if additional areas of the subject property require further assessment. The potential for impacts beneath Site features due to the historical operation of the power generating facility is considered a REC.

- Pending Data Gap Investigation: SCE submitted a workplan for the data gap soil sampling event to Department of Toxic Substances Control (DTSC) on October 15, 2020. The workplan indicates that soil samples will be collected at one hypochlorite tank/sump, three sulfuric acid aboveground storage tanks (ASTs) and two auxiliary transformers located on the subject property (SCE 2020). SCE stated that the data from the soil sampling event would be included in the RFI workplan along with other data previously collected at the subject property. SCE does not plan to conduct additional sampling in other inaccessible areas of the subject property, such as beneath the generating units and peaker unit. SCE stated that impacts identified in these areas during Site redevelopment will be managed in accordance with a Soil Management Plan that will be proposed in the RFI. The potential for impacts beneath Site features proposed for investigation is considered a REC.

- Arsenic in Soil: A Phase II investigation conducted in 1997 identified five areas on the subject property containing arsenic concentrations in soil above screening criteria identified in 1997. The identified areas are generally defined as surface water discharge, pipelines, cooling towers 3 and 4, sulfuric acid storage tanks, and the former water softener and brine pit. The maximum concentrations detected in 1997 were compared to the current DTSC approved background concentration of 12 milligrams per kilogram (mg/kg). Maximum arsenic concentrations detected at three of the areas, cooling towers 3 and 4 (17 mg/kg), sulfuric acid storage tanks (22 mg/kg), and former water softener and brine pit (17 mg/kg), exceeded the background concentration. The maximum concentrations detected at the surface water discharge (5.3 mg/kg) and pipelines (2.6 mg/kg) were below the background concentration.

  An additional investigation conducted in the vicinity of the Units 1 and 2 cooling towers conducted in March through May 2005 detected arsenic in shallow soils at concentrations ranging from 160 to 390 mg/kg. In August 2005, additional shallow soil sampling in the vicinity of the Units 1 and 2 cooling towers found arsenic at concentrations between 1.89 and 70.2 mg/kg. URS concluded that elevated arsenic concentrations “do not extend much past the base of the cooling tower units.” In September 2019, SCE’s consultant, Northgate Environmental, prepared a Cooling Towers Removal Activities Memorandum that outlines the excavation activities planned in the immediate vicinity of the Units 1 and 2 cooling towers (Northgate 2019).

The elevated arsenic concentrations remaining in on-Site soils in the vicinity of cooling towers 1 and 2, cooling towers 3 and 4, sulfuric acid storage tanks, and former water softener and brine pit is considered a REC.

- 2019 Investigation Results: In October 2019, Ardent Environmental Group (Ardent) conducted a site investigation on behalf of a prospective buyer. Figures and tables from this investigation were provided to Path Forward but an accompanying report was not available. Based on a review of the figures and tables, soil and soil gas samples collected in several locations on the subject property contained concentrations of chemicals above human health and/or disposal criteria. Chemicals detected in soil above human health and/or disposal criteria include total petroleum hydrocarbons (TPH) as diesel in Chadwick Channel, arsenic and lead near the Unit 3 cooling tower, arsenic, copper, and lead in Landfill I (see 2020 Soil Excavation below), and thallium in the Unit 3 cooling tower flume. Chemicals detected in soil gas above human health and/or disposal criteria include bromodichloromethane, chloroform, 1,1-dichloroethane (1,1-DCA), tetrachloroethylene (PCE), and vinyl chloride in the maintenance shop area and 1,1-DCA, PCE, and vinyl chloride in the septic system associated with the maintenance shop. Given that the areas where elevated concentrations of chemicals were detected have not been further investigated, the extent of impacts in these areas has not been defined. The results of the 2019 Investigation indicating the presence of impacts above human health and/or disposal criteria is a REC.

- 2020 Soil Excavation: Metals-impacted soil in the northwest portion of the property (identified as Landfill I) was identified during a 2019 subsurface investigation conducted by Ardent. Between May and July 2020, approximately 6,445 tons of metals-impacted soil was identified and excavated from this area of the subject property. The soil was profiled as non-RCRA hazardous waste and disposed off-Site. The Soil Removal Memorandum prepared by ERM and dated September 22, 2020 states that, based on the results of field screening, visual observations and analytical results of the confirmation samples, all impacted soil containing elevated metals concentrations in the northwest portion of the subject property has been removed. ERM recommended no further action to mitigate this area.

  During the site visit performed by Path Forward, additional “black sand” was identified in northwest portion of the property (identified as Landfill II). In September 2020, ERM collected one additional soil sample of “black sand” that appeared similar to the area of excavation in Landfill I. The metals concentrations detected were similar to those detected in the Landfill I area; however, were below human health risk based levels. Given that only one sample was collected in this area, the extent of soil with elevated metals concentrations is not known. The presence of Black Sand in Landfill II is considered a REC.

- Spills and Releases: Numerous spills and releases from the cooling towers, tanks, and equipment have occurred since Site operations began in 1953. SCE records, San Bernardino County Fire Department records and records in the CHMIRS database indicate that releases to Chadwick Channel and other areas on the subject property have occurred throughout the history of Site operations. For example, records indicate that transformer leakage in 1991 generated approximately 80 tons of transformer oil-containing soil and that an approximately 45-gallon release of non-PCB mineral oil was recovered by removal of soil in 1995. In addition, oil staining was noted in the powerblock and near various equipment at the Site during the Site reconnaissance conducted by Path Forward and others. Previous investigations conducted at the subject property have not included sampling in areas of subsurface and aboveground piping that conveys fuel oil from oil tanks to the powerblock. Given the long history of industrial operations including significant quantities of petroleum and other products and known release events, it is possible that impacts are present beneath inaccessible areas, such as the powerblocks and cooling towers, and near other equipment at the subject property, such as pipelines. This long industrial history and documented releases is considered a REC.

- Retention Basin RCRA Investigation and Closure: As discussed above in the REC section, the Superior Court of Los Angeles issued a Final Judgment pursuant to Stipulation on February 1, 1995. The Stipulation alleged that SCE had stored hazardous wastes in unpermitted surface impoundments at the company's power generating stations in Southern California, including the Etiwanda Generating Station. As part of the Stipulation, SCE was required to conduct RCRA closure of three surface impoundments (two wastewater retention basins and one boiler chemical cleaning basin) and the associated pipelines and appurtenances (the "Retention Basin Site") that connect the basins to the power generating units at the subject property according to Chapter 15 of Title 22, California Code of Regulations.

  SCE conducted investigations to determine whether the basins or associated conveyance systems had released wastewater to the underlying soil. The investigations concluded that leakage had occurred through the basin liners causing limited changes in the native soil chemistry. A DTSC-approved Water Quality Monitoring Program (WQMP) was subsequently conducted. A Closure Documentation Report (CDR) submitted to the DTSC in 2011 summarizes the data collected for the RCRA closure project. The CDR concluded that the extensive sampling and resultant analytical data illustrates a complete characterization of the soil beneath the retention basins and associated pipeline system. The CDR also concluded that there is no direct pathway for leakage to impact the groundwater and that there is no evidence of a continuous leak of wastewater to the sediments. The retention basins were found to meet closure requirements for the soil and groundwater chemicals of potential concern (COPCs) based on the results of a human health risk assessment that concluded that human health risks are within acceptable limits for future unrestricted industrial or residential

use and that groundwater use is also acceptable for unrestricted use. The environmental and ecological scoping-level risk assessment determined that ecological exposure pathways are incomplete.

The DTSC reviewed the CDR and issued a Closure Certification Acknowledgment letter on December 29, 2011 (DTSC 2011). The letter states that the DTSC considers the Retention Basin Site as being officially closed on December 20, 2011 and confirms that the Retention Basin Site has been investigated. The RCRA closure of the retention basins at the subject property is considered an HREC.

- 1985 Underground Storage Tank (UST) No Further Action Letter: An October 13, 1985 report provided the results of a soil investigation for three USTs (120-gallon naphtha, 550-gallon kerosene, and 550-gallon unleaded gasoline) that were removed in 1986. Five soil borings were advanced to 49 feet below ground surface (bgs) each, and a total of 24 soil samples were collected. All samples were analyzed for total recoverable petroleum hydrocarbons (TRPH). The highest TRPH result was 11 mg/kg from a sample collected at a depth of 10 feet bgs. The investigation results were submitted to the County of San Bernardino Department of Environmental Health Services on December 11, 1985. The DEHS reviewed the results and issued a letter dated December 27, 1985 that states “this Department concurs that the levels of contamination found do not present an environmental or public health threat.” The no further action letter for the UST closure is considered an HREC.

- 1998 Tank Area No Further Action Letter: A May 26, 1998 letter, the Regional Water Quality Control Board (RWQCB) stated that their review of a April 9, 1998 Baseline Tank Study Report, which was not available in the records reviewed, indicates that additional investigation was required in borings where TPH concentrations were increasing with depth. The Baseline Tank Study Report included soil data collected in the “west and east tank areas” at the subject property. The location of these areas was not identified in records reviewed. The RWQCB letter states that further characterization of these areas could be conducted during remedial activities in these areas. A December 9, 1998 letter from the RWQCB to SCE indicated that, based on a review of the results of sampling contained in an August 21, 1998 report, which was also not available in the records reviewed, no further action was required. The no further action letter for the Tank Area is considered an HREC.

- Chadwick Channel Excavation Activity: The 1997 Phase II ESA indicates former occupants of properties to the north of the Site (TAMCO and Ameron) were responsible for several releases to the Chadwick Channel and other areas located to the north of the Site in the 1980s and 1990s. An investigation conducted in 1985 reportedly detected concentrations of arsenic in Chadwick Channel above screening criteria, and concentrations of lead and chromium above hazardous waste criteria. Results of the 1985 investigation were reportedly presented in a Site Characterization Study for the

Etiwanda Generating Station; however, this report was not available for Path Forward's review. On July 22, 1987, SCE received a letter from the RWQCB that states, based on review of the "Site Characterization study" that addressed the chemical composition and extent of impact to soil in the drainage channel and spreading basin, which is located south of the subject property, no further remedial action will be required.

Path Forward also reviewed a 1997 Chadwick Channel Site Investigation and Cleanup report that indicates that soil containing nickel at concentrations above the California Total Threshold Limiting Concentration (TTLC) were delineated near the former Unit 4 drain line discharge in Chadwick Channel. Beryllium was also detected at concentrations above its Preliminary Remediation Goal (PRG). The soil was excavated and sidewall and bottom samples confirmed that all impacted soil was removed. Agency closure of the 1997 excavation activities was not found during this assessment. The no further action letter and remediation of the area of Chadwick Channel near the former Unit 4 drainage line discharge are considered an HREC.

- Former Agricultural Uses: The subject property was used for agricultural purposes sometime prior to 1938 until the early 1950s. Although not documented at the subject property, activities commonly associated with agricultural uses may include the use and storage of hazardous materials and petroleum products (*e.g.*, agricultural chemicals). Information was not available as to the potential historical usage of pesticides, fertilizers or insecticides. Based on our experience, these residual concentrations, if present, are not typically at concentrations that would require cleanup by a regulatory agency or pose a significant human health risk to commercial or industrial site users. There is potential that the near surface soils may contain residual agricultural chemicals that may affect disposal costs in the event redevelopment is planned and such soils are removed from the property. The historical agricultural use is considered a de minimis condition.

- Closed in place UST(s): A 550-gallon UST was installed at the subject property in 1986 or 1996. The 2007 Phase I ESA indicates that a construction inspection record dated January 13, 2000 and prepared by the Rancho Cucamonga Fire Department (RCFD) indicates that a 500-gallon fiberglass UST was removed from the Etiwanda facility. No noncompliance was observed. The inspection report indicated the UST was removed and transported offsite. Although a copy of the closure report was requested, the report was not contained in the file. However, the 2019 Phase I ESA indicates that the 550-gallon UST was closed in place at the Site in 2000 although closure and removal documentation was not available for review. Based on Path Forward's review of San Bernardino County Fire Department (SBCFD) records, an Underground Storage Tanks form for permanent on-site closure of a 2,000-gallon UST was filed with the CUPA on January 3, 2000. The form indicates that the UST was filled with inert material and closed in place. No information regarding UST contents or location was found in the records reviewed. Based on the conflicting information provided in the previous Phase Is

and records reviewed by Path Forward, it is possible that one or two USTs may have been closed in place at the subject property; one 550-gallon UST may be located south of the warehouse and the location of one 2,000-gallon UST is unknown. The presence of potential closed in place USTs is considered a de minimis condition.

- Potential UST: The 1997 Phase II ESA indicates that Edison Drawing 5625202 identifies a UST near a carport area, as shown on Figure 3. Geraghty & Miller conducted a geophysical survey in the area identified and did not identify a UST in this area but concluded that a UST may be found in this area during Site redevelopment. The presence of a potential UST is considered a de minimis condition.

8.0 CONCLUSIONS

Path Forward conducted a Phase I ESA in conformance with ASTM Designation: E1527 of the subject property located at 8996 Etiwanda Avenue, San Bernardino County, Rancho Cucamonga, California. This ESA has revealed evidence of RECs in connection with the subject property, as discussed in Section 7.0.

We declare that, to the best of our professional knowledge and belief, we meet the definition of environmental professional as defined in §312.10 of 40 CFR 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

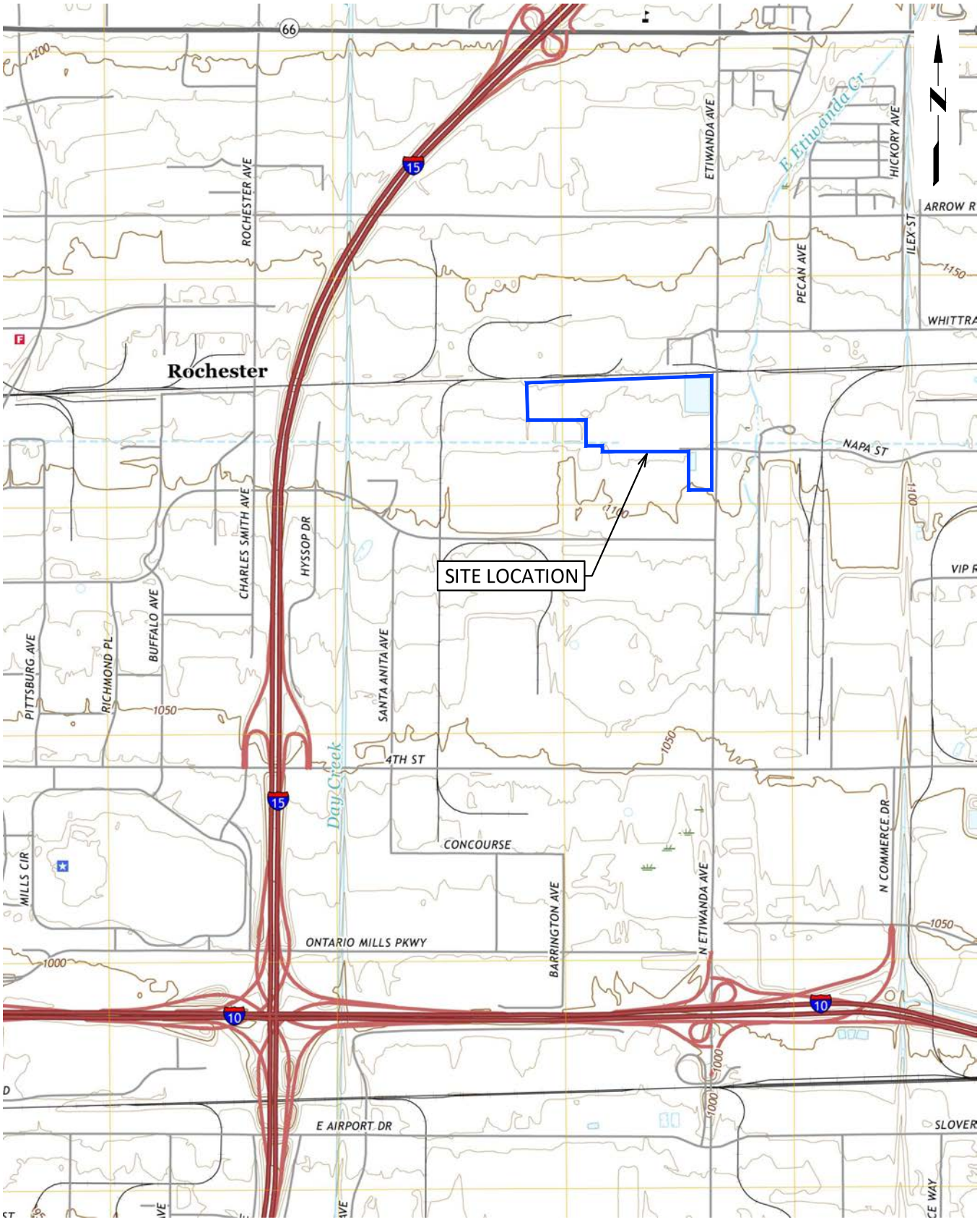
This Phase I ESA report prepared by:

Karen T. Smith
Senior Scientist

This report reviewed by:

David A. Grunat, P.G., C.H.G.
Principal Geologist

Figures



0 2,000

SCALE: feet

Reference:
USGS Guasti 7.5 Minute quadrangle, 2018.

SITE LOCATION MAP

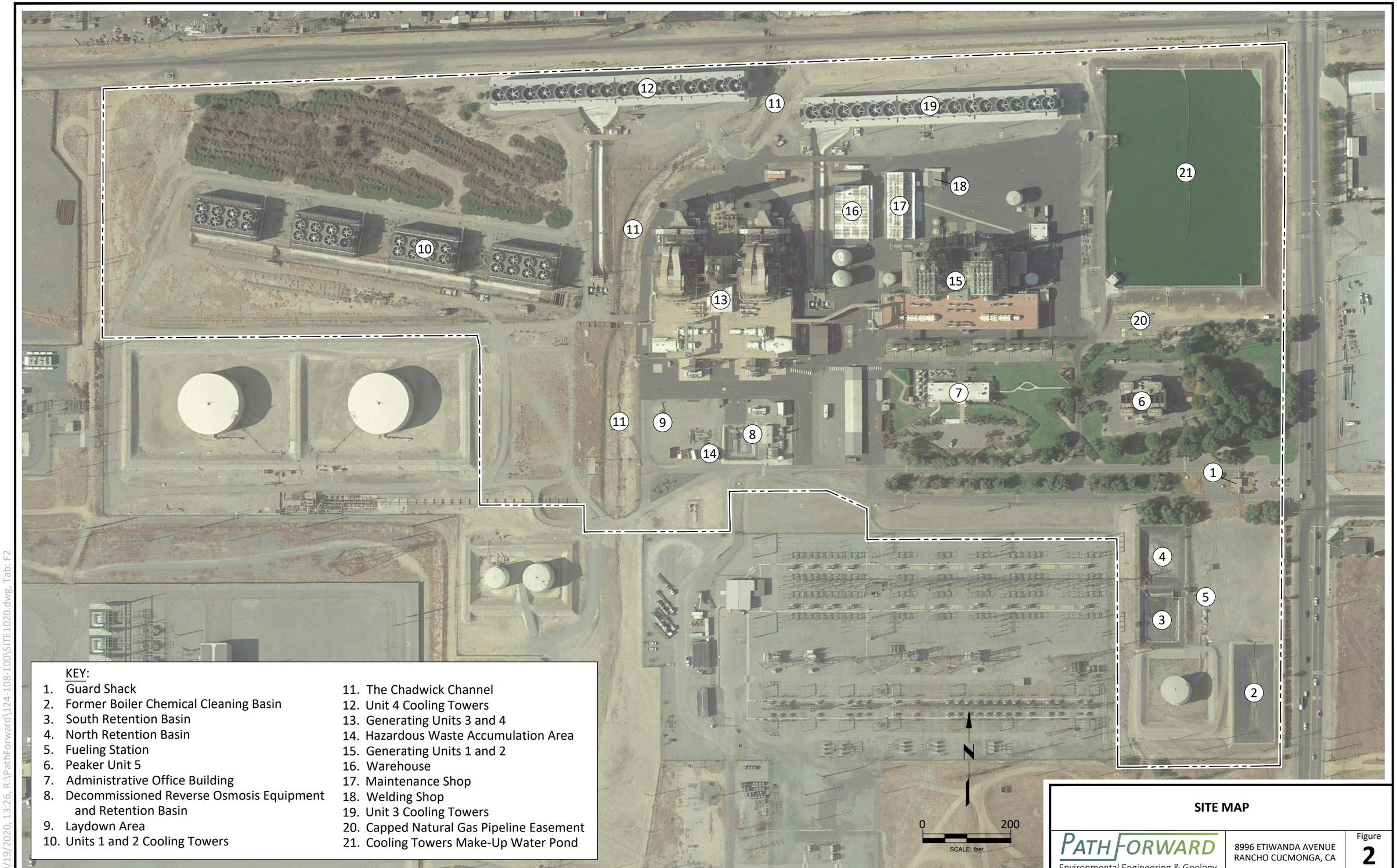
PATH FORWARD
Environmental Engineering & Geology

8996 ETIWANDA AVENUE
RANCHO CUCMONGA, CA

Figure
1

Project No. 124-108-100

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KEY:

1. Guard Shack
2. Former Boiler Chemical Cleaning Basin
3. South Retention Basin
4. North Retention Basin
5. Fueling Station
6. Peaker Unit 5
7. Administrative Office Building
8. Decommissioned Reverse Osmosis Equipment and Retention Basin
9. Laydown Area
10. Units 1 and 2 Cooling Towers
11. The Chadwick Channel
12. Unit 4 Cooling Towers
13. Generating Units 3 and 4
14. Hazardous Waste Accumulation Area
15. Generating Units 1 and 2
16. Warehouse
17. Maintenance Shop
18. Welding Shop
19. Unit 3 Cooling Towers
20. Capped Natural Gas Pipeline Easement
21. Cooling Towers Make-Up Water Pond

SITE MAP

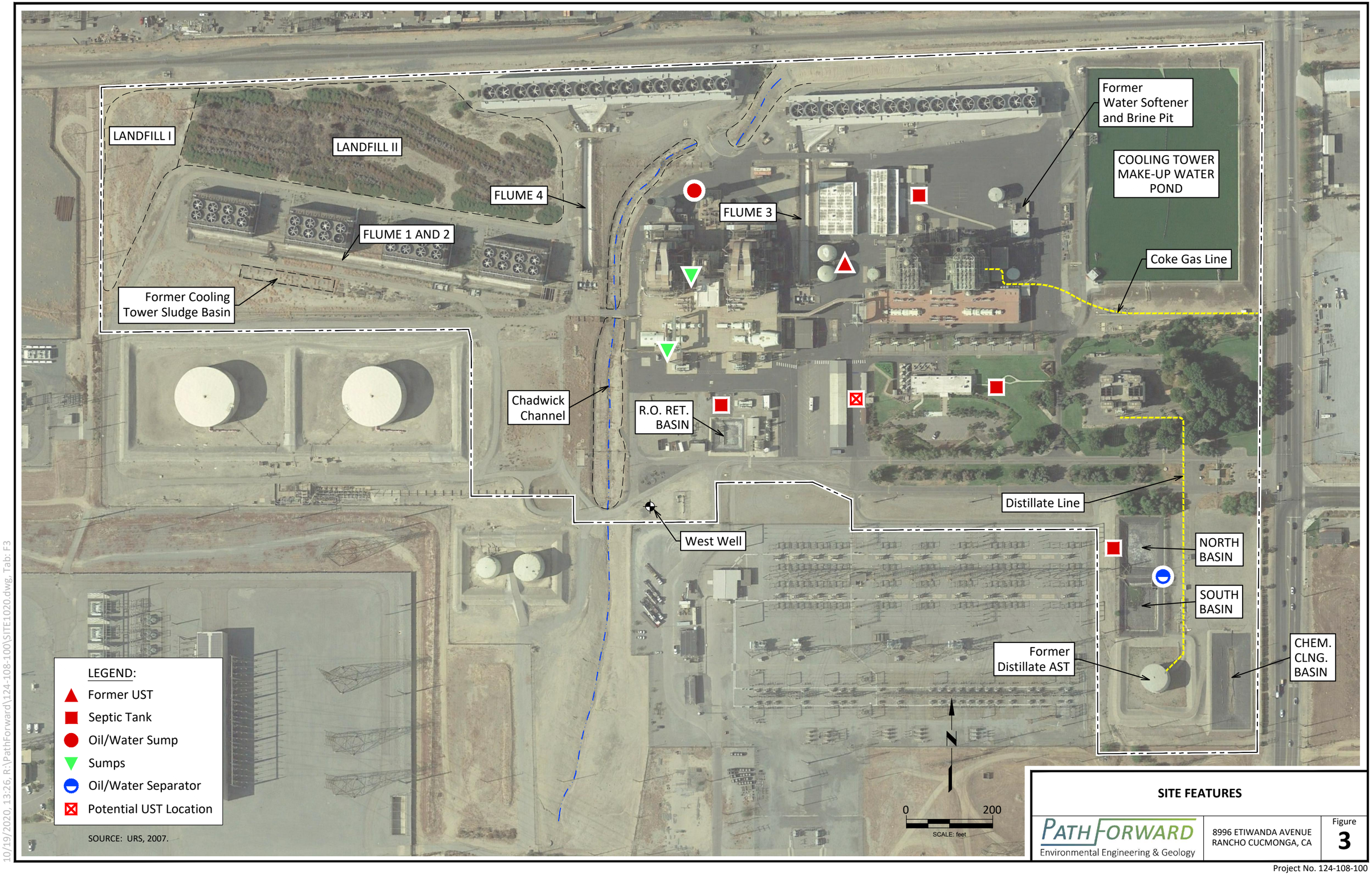
PATH FORWARD
Environmental Engineering & Geology

8996 ETIWANDA AVENUE
RANCHO CUCMONGA, CA

Figure **2**

Project No. 124-108-100

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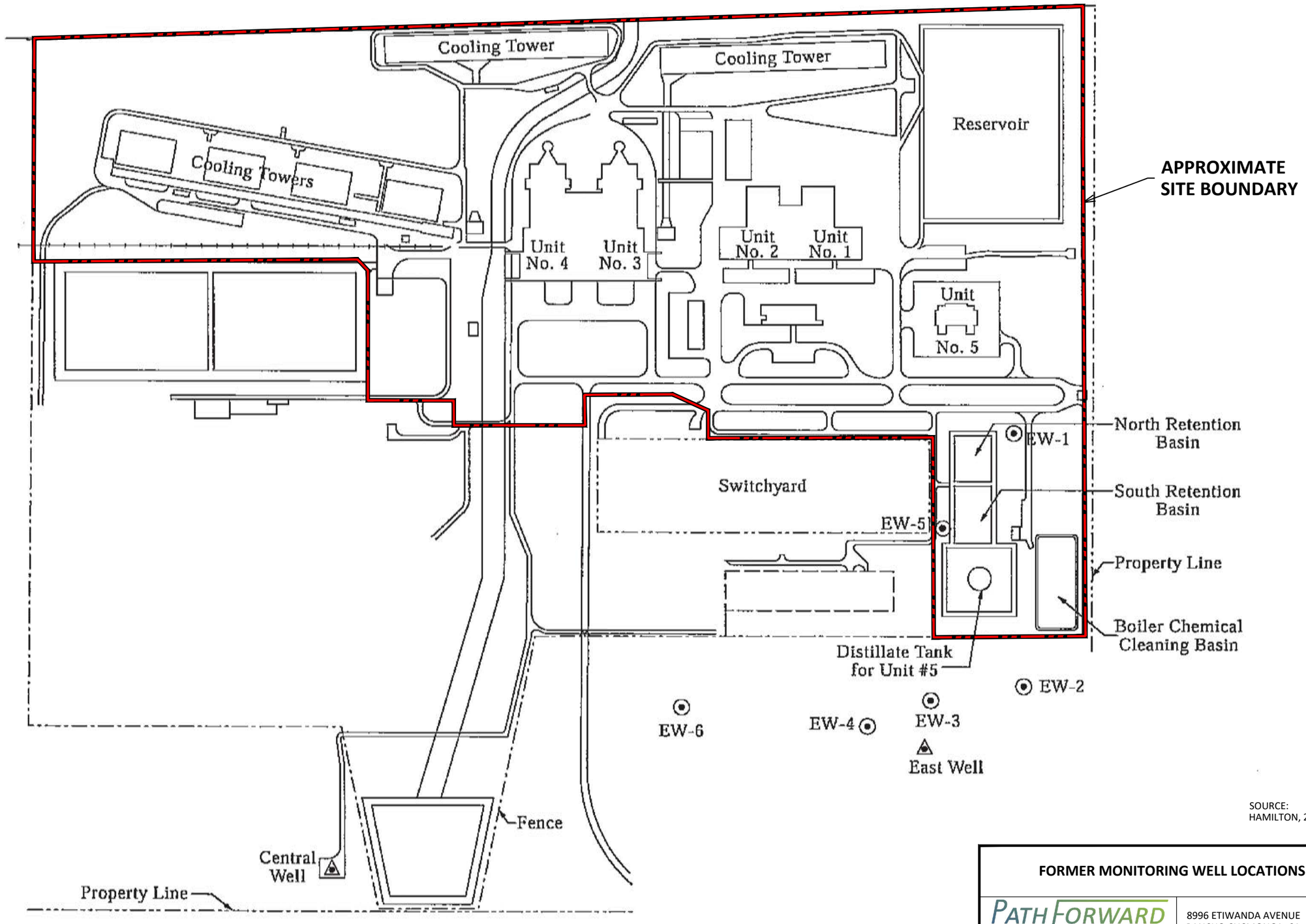
SITE FEATURES

PATH FORWARD
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8996 ETIWANDA AVENUE
RANCHO CUCMONGA, CA

Figure
3

Project No. 124-108-100



SOURCE:
HAMILTON, 2010.

FORMER MONITORING WELL LOCATIONS

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8996 ETIWANDA AVENUE
RANCHO CUCMONGA, CA

Figure
4

Project No. 124-108-100

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Appendix A

Subject Property Photographs



PHOTO: **1** DATE: 9/17/2020	Looking south at the southwestern corner of the subject property.



PHOTO: **2** DATE: 9/17/2020	Units 1 and 2 cooling towers: Looking east from the western property boundary.

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SITE PHOTOGRAPHS

8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **3** DATE: 9/17/2020	Looking east along gravel road along northern property boundary.



PHOTO: **4** DATE: 9/17/2020	Looking north at adjacent property to the north of the subject property.

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SITE PHOTOGRAPHS

8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **5** DATE: 9/17/2020	Looking north along the eastern property boundary with Etiwanda Street on the right.



PHOTO: **6** DATE: 9/17/2020	Looking south from southwestern corner of the subject property.

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SITE PHOTOGRAPHS

8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **7** DATE: 9/17/2020	Looking southwest at southwestern adjacent property.



PHOTO: **8** DATE: 9/17/2020	Looking south along western subject property boundary. Recently excavated area (2020) shown.

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SITE PHOTOGRAPHS

8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **9** DATE: 9/17/2020	Looking southeast at ASTs located on the adjacent property to the south.



PHOTO: **10** DATE: 9/17/2020	Looking south from southwestern corner of the subject property.

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SITE PHOTOGRAPHS

8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **11** DATE: 9/17/2020	Looking south at switchyard on adjacent property to south.



PHOTO: **12** DATE: 9/17/2020	Looking west along the southern subject property boundary.

PATH FORWARD
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SITE PHOTOGRAPHS

8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **13** DATE: 9/17/2020	Transformer located on adjacent property.



PHOTO: **14** DATE: 9/17/2020	Looking southeast at ASTs on adjacent property to the south.

PATH FORWARD
Environmental Engineering & Geology

SITE PHOTOGRAPHS

8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **15** DATE: 9/17/2020	Looking southeast at Units 3 and 4 (foreground) and Units 1 and 2 (background).



PHOTO: **16** DATE: 9/17/2020	Stilling well located on the northwestern portion of the subject property.

PATH FORWARD
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SITE PHOTOGRAPHS

8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **17** DATE: 9/17/2020	Empty chemical container located near the Units 1 and 2 cooling towers.



PHOTO: **18** DATE: 9/17/2020	ASTs in secondary containment near the Unit 4 cooling tower.

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Environmental Engineering & Geology

SITE PHOTOGRAPHS

8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **19** DATE: 9/17/2020	AST in secondary containment near the Unit 4 cooling tower.



PHOTO: **20** DATE: 9/17/2020	Looking south along Flume 4.

PATH FORWARD
Environmental Engineering & Geology

SITE PHOTOGRAPHS

8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **21** DATE: 9/17/2020	AST in secondary containment near the Unit 3 cooling tower.



PHOTO: **22** DATE: 9/17/2020	Vault located near the Units 1 and 2 cooling towers.

PATH FORWARD
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SITE PHOTOGRAPHS

8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **23** DATE: 9/17/2020	Looking west along Flume 1 and 2.



PHOTO: **24** DATE: 9/17/2020	Former AST support near the Units 1 and 2 cooling towers.

PATH FORWARD
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SITE PHOTOGRAPHS

8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **25** DATE: 9/17/2020	Former borehole in the former cooling tower sludge basin.



PHOTO: **26** DATE: 9/17/2020	Looking northwest the Units 1 and 2 cooling towers.

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SITE PHOTOGRAPHS

8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **27** DATE: 9/17/2020	Staining observed in Unit 4.



PHOTO: **28** DATE: 9/17/2020	Steel drum observed in Unit 4.

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SITE PHOTOGRAPHS

8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **29** DATE: 9/17/2020	Empty turbine lube oil reservoir in Unit 4.



PHOTO: **30** DATE: 9/17/2020	Utility room located behind the turbine lube oil reserve in Unit 4.

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PHOTO: **31** DATE: 9/17/2020	Equipment in Unit 4.



PHOTO: **32** DATE: 9/17/2020	Equipment in Unit 4.

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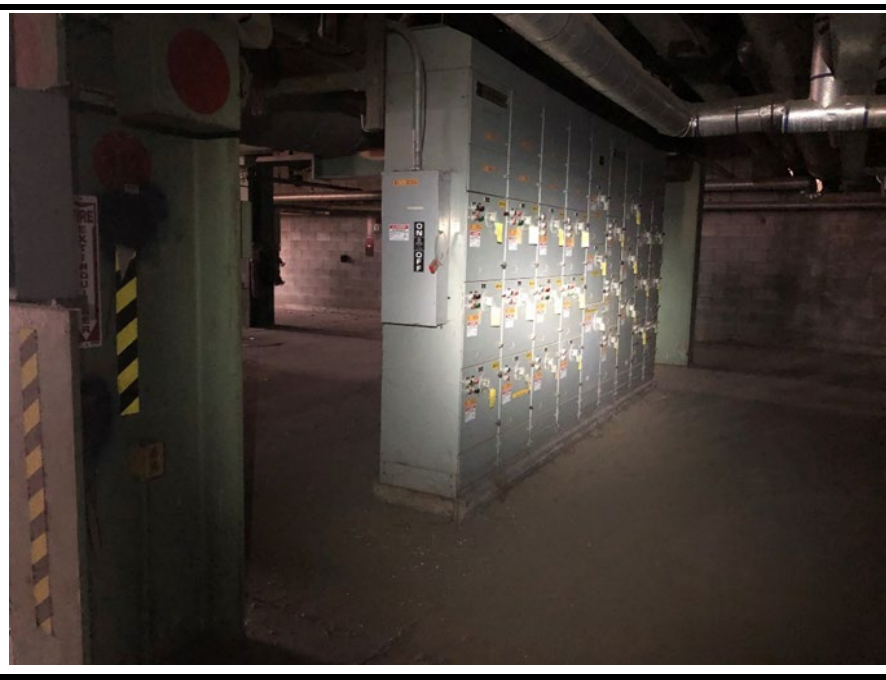


PHOTO: **33** DATE: 9/17/2020	Electrical box and control panel in Unit 4.



PHOTO: **34** DATE: 9/17/2020	Chemical storage on secondary containment pallets in Unit 4.

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PHOTO: **35** DATE: 9/17/2020	Looking northeast at secondary fuel oil pump motor located north of Units 3 and 4.



PHOTO: **36** DATE: 9/17/2020	Looking north at water tank located north of Units 3 and 4.

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PHOTO: **37** DATE: 9/17/2020	Entrainment separator and flame arrestor located north of Units 3 and 4.



PHOTO: **38** DATE: 9/17/2020	Disconnected pipe located north of Units 3 and 4.

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PHOTO: **39** DATE: 9/17/2020	Sump located north of Units 3 and 4.



PHOTO: **40** DATE: 9/17/2020	Trisodium phosphate storage in Unit 4.

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Rancho Cucamonga, California



PHOTO: **41** DATE: 9/17/2020	Utility room in Unit 3.

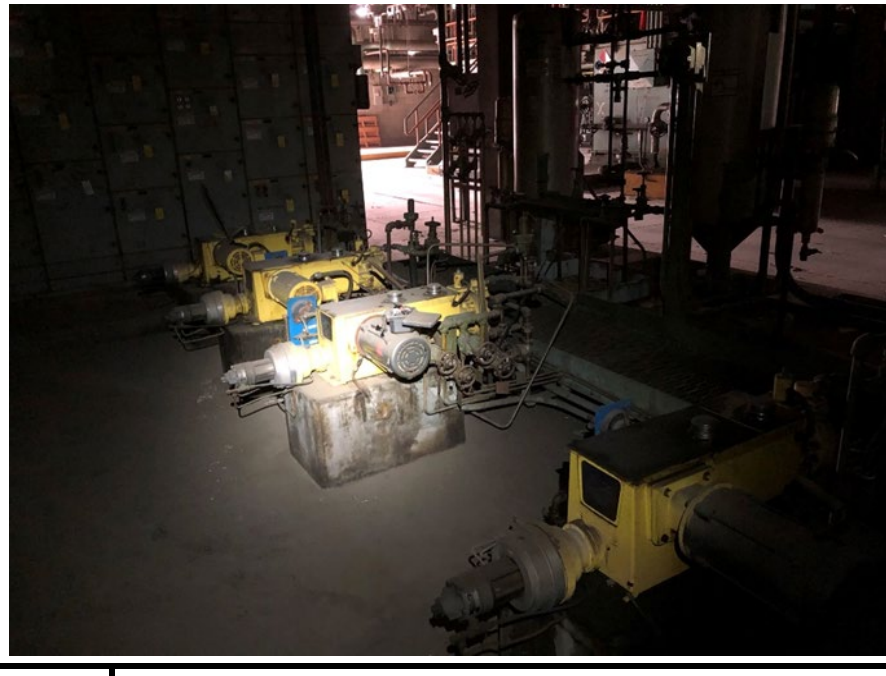


PHOTO: **42** DATE: 9/17/2020	Utility room in Unit 3.

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Rancho Cucamonga, California

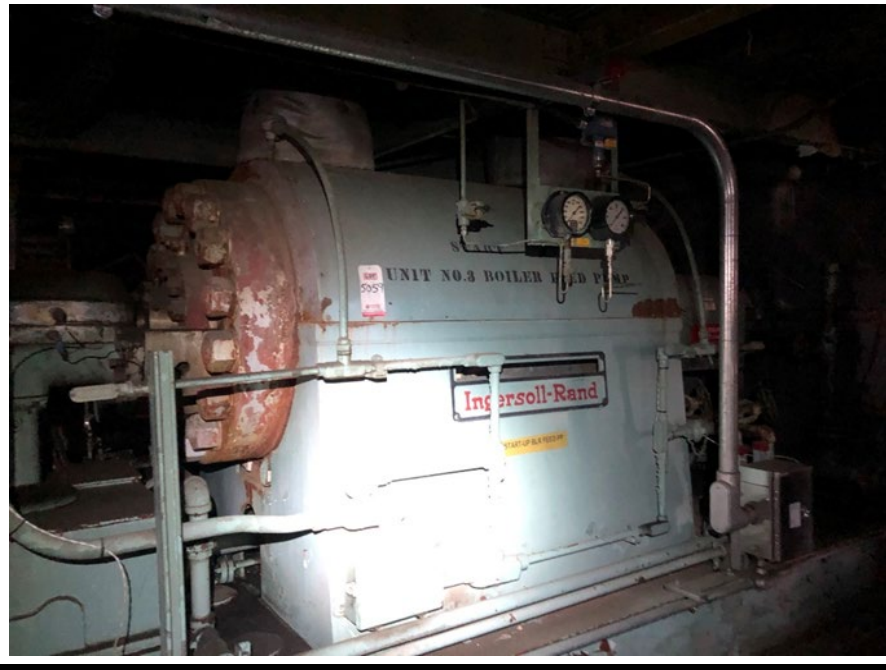


PHOTO: **43** DATE: 9/17/2020	Boiler in Unit 3.



PHOTO: **44** DATE: 9/17/2020	Control panel in Unit 3.

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8996 Etiwanda Avenue
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PHOTO: **45** DATE: 9/17/2020	Staining observed near floor drain in Unit 3.



PHOTO: **46** DATE: 9/17/2020	Turbines on the south side of Units 3 and 4.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **47** DATE: 9/17/2020	Emergency shower on the south side of Units 3 and 4.



PHOTO: **48** DATE: 9/17/2020	Looking east at water lines on the south side of the Unit 3 cooling tower.

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8996 Etiwanda Avenue
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PHOTO: **49** DATE: 9/17/2020	Empty sulfuric acid AST located south of the Unit 3 cooling tower.



PHOTO: **50** DATE: 9/17/2020	Stained observed near the sulfuric acid AST.

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PHOTO: **51** DATE: 9/17/2020	Sodium hypochlorite AST located south of the Unit 3 cooling tower.



PHOTO: **52** DATE: 9/17/2020	Water tank and water lines located north of Units 1 and 2.

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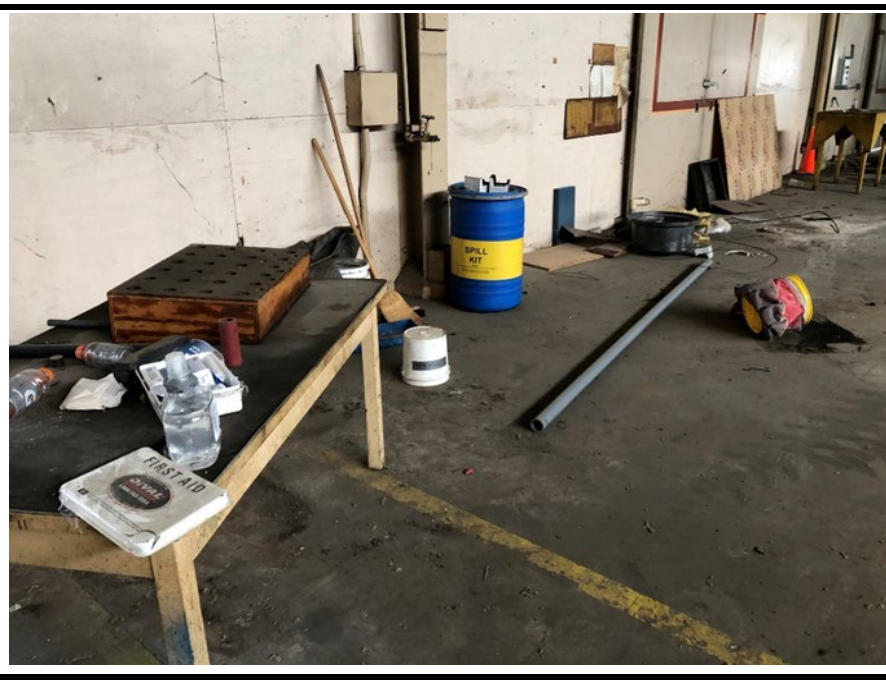


PHOTO: **53** DATE: 9/17/2020	Maintenance building interior. Staining noted on the floor.



PHOTO: **54** DATE: 9/17/2020	Overturned bucket and staining noted in the maintenance building.

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8996 Etiwanda Avenue
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PHOTO: **55** DATE: 9/17/2020	Electrical box in maintenance building.



PHOTO: **56** DATE: 9/17/2020	Under sink storage in maintenance building.

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8996 Etiwanda Avenue
Rancho Cucamonga, California

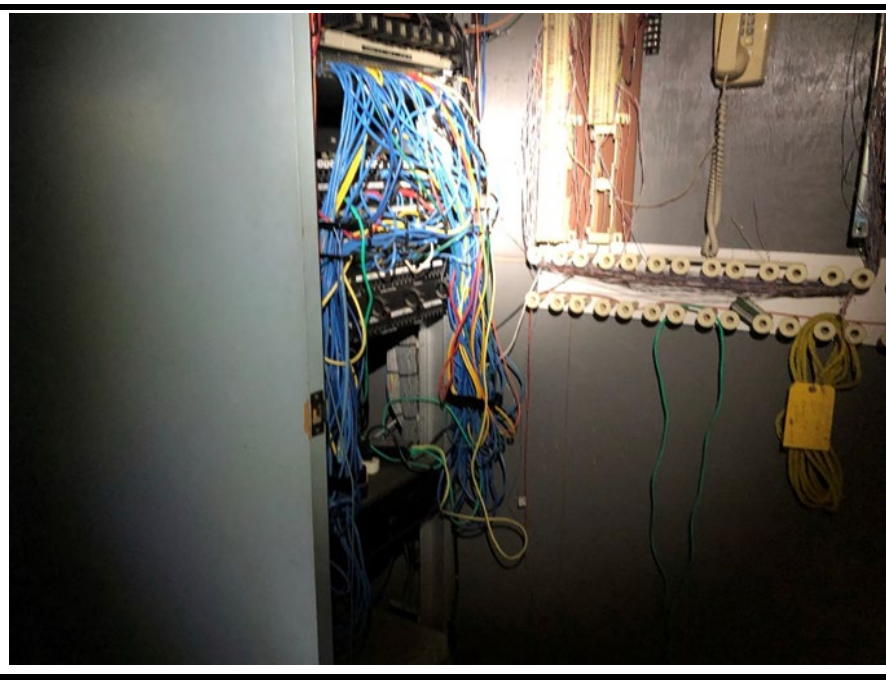


PHOTO: **57** DATE: 9/17/2020	Electrical box in the maintenance building.



PHOTO: **58** DATE: 9/17/2020	Air compressor stored in the warehouse.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **59** DATE: 9/17/2020	Buckets of concrete repair stored in the warehouse.



PHOTO: **60** DATE: 9/17/2020	Aircraft hydraulic oil stored in the warehouse.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **61** DATE: 9/17/2020	50 pound drums of Drierite stored in the warehouse.



PHOTO: **62** DATE: 9/17/2020	Former borehole location between the maintenance and warehouse buildings.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **63** DATE: 9/17/2020	Boiler room in Unit 2.



PHOTO: **64** DATE: 9/17/2020	Electrical box and piping located in Unit 2.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **65** DATE: 9/17/2020	One of two empty caustic sodium hydroxide ASTs in the former wastewater treatment area located northeast of Unit 1.



PHOTO: **66** DATE: 9/17/2020	Looking northeast at substation on west side of the cooling tower make up water pond.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **67** DATE: 9/17/2020	Looking northeast at sodium hypochlorite AST near northwest corner of the cooling tower make up water pond.



PHOTO: **68** DATE: 9/17/2020	Looking southeast at the cooling tower make up water pond.

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PHOTO: **69** DATE: 9/17/2020	Fire hydrant supply system located near the southwest corner of the cooling tower make up water pond.



PHOTO: **70** DATE: 9/17/2020	Natural gas transmission building near southeast corner of the cooling tower make up water pond.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **71** DATE: 9/17/2020	Storage shed related to natural gas located near the southeast corner of the cooling tower make up water pond.



PHOTO: **72** DATE: 9/17/2020	Empty turbine lube oil reservoir in Unit 5.

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8996 Etiwanda Avenue
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PHOTO: **73**
DATE: 9/17/2020

Two empty ASTs in Unit 5.



PHOTO: **74**
DATE: 9/17/2020

Transformer on south side of Unit 5.

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8996 Etiwanda Avenue
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PHOTO: **75** DATE: 9/17/2020	Building ventilation on Unit 5 exterior.



PHOTO: **76** DATE: 9/17/2020	Looking south at north retention basin.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **77** DATE: 9/17/2020	Looking east at former boiler chemical cleaning basin.



PHOTO: **78** DATE: 9/17/2020	Former borehole located on the southeastern portion of the subject property.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **79** DATE: 9/17/2020	Empty waste oil skimmer ASTs located on the east side of the south retention basin.



PHOTO: **80** DATE: 9/17/2020	Fuel pump station located on the east side of the north retention basin.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **81** DATE: 9/17/2020	Fuel pump station.



PHOTO: **82** DATE: 9/17/2020	Stained area observed north of the fueling station.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **83** DATE: 9/17/2020	Looking northeast at the guard shack located near the main entrance to the subject property.



PHOTO: **84** DATE: 9/17/2020	Pumps adjacent to the reverse osmosis system building.

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8996 Etiwanda Avenue
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PHOTO: **85** DATE: 9/17/2020	Pumps adjacent to the reverse osmosis systems building.



PHOTO: **86** DATE: 9/17/2020	Looking north at Units 3 and 4.

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8996 Etiwanda Avenue
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PHOTO: **87** DATE: 9/17/2020	Salt and water tanks located near the reverse osmosis systems building.



PHOTO: **88** DATE: 9/17/2020	Water tanks and pumps located near the reverse osmosis systems building.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **89** DATE: 9/17/2020	Control panel in the reverse osmosis systems building.

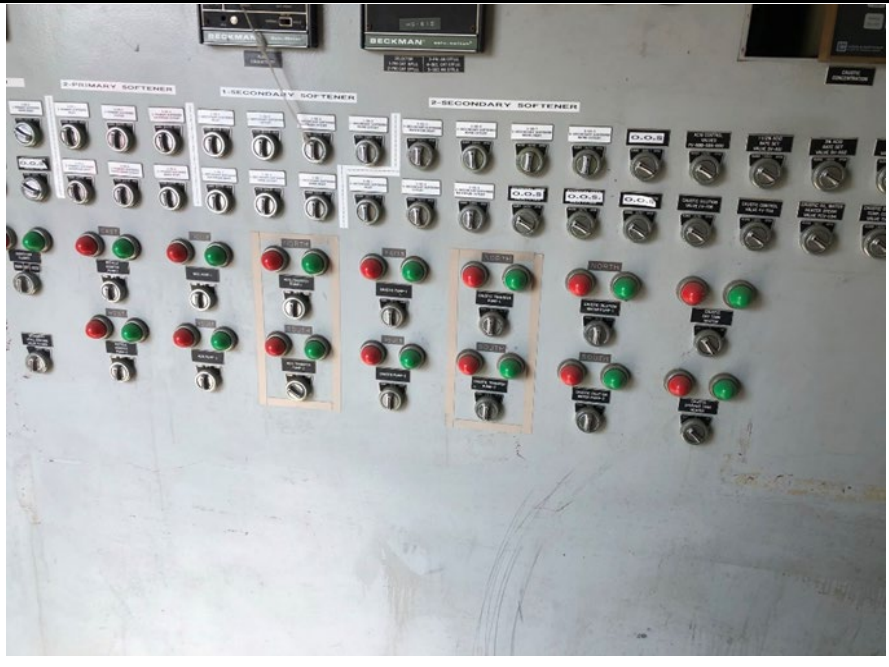


PHOTO: **90** DATE: 9/17/2020	Control panel in the reverse osmosis systems building.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **91** DATE: 9/17/2020	Flammable materials storage cabinet.



PHOTO: **92** DATE: 9/17/2020	Concrete pad located west of the reverse osmosis systems building.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **93** DATE: 9/17/2020	Five-gallon oily waste cans located in the hazardous waste accumulation area.



PHOTO: **94** DATE: 9/17/2020	Hazardous waste labeling sign located in the hazardous waste accumulation area.

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8996 Etiwanda Avenue
Rancho Cucamonga, California



PHOTO: **95** DATE: 9/17/2020	Safety switch for power receptacle box located in the hazardous waste accumulation area.

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Appendix B

Sources and References

Contacts and Interviews		Date
Property Escorts	Jon Sacks of GenOn and Steve Williams of ERM	September 17, 2020

Agencies	Contact Information	Contact Date
City of Rancho Cucamonga Online Permit Center	https://aca-prod.accela.com/cityofrc/Default.aspx	Accessed September 2020
San Bernardino County Fire Department	info@sbcfire.org	Request submitted September 2020
RWQCB - Santa Ana	filereview8@waterboards.ca.gov	Request submitted September 2020
DTSC - Cypress	Cypressfileroom@dtsc.ca.gov	Request submitted September 2020
SCAQMD	https://www.aqmd.gov/nav/online-services/public-records	Request submitted September 2020
CalRecycle	PubRecReq@calrecycle.ca.gov	Request submitted October 2020
GeoTracker	http://geotracker.waterboards.ca.gov	Accessed September 2020
DTSC – EnviroStor	https://www.envirostor.dtsc.ca.gov	Accessed September 2020

Source Materials and References	Date(s)	Source
Aerial Photographs	1938, 1949, 1953, 1959, 1966, 1975, 1985, 1990, 1994, 2005, 2009, 2012, 2016	EDR
Sanborn Fire Insurance Maps	No Coverage	EDR
Topographic Maps	1897, 1900, 1903, 1941, 1944, 1953, 1954, 1966, 1973, 1976, 1981, 2012	EDR
City Directory Report	Prepared September 8, 2020	EDR
Interim Data Gap Soil Sampling Work Plan	October 15, 2020	SCE
Soil Removal Memorandum	September 22, 2020	ERM
West Well Closure Memorandum	February 3, 2020	ERM
October 2019 Site Investigation Figures and Tables	October 2019	Ardent
Cooling Towers Removal Activities Memorandum	September 23, 2019	Northgate Environmental
Phase I Environmental Site Assessment, Etiwanda Generating Station	April 2019	ERM

Source Materials and References	Date(s)	Source
Closure Report for GenOn Etiwanda Generating Station	December 2018	ERM
Closure Certification Acknowledgment	December 29, 2011	DTSC
Final Closure Demonstration Report	December 2011	Jamison and Associates, Inc.
2009 Annual Groundwater Monitoring Report	February 7, 2010	P. Hamilton
Phase I Environmental Site Assessment, Proposed San Gabriel Generating Station, Rancho Cucamonga, California	April 12, 2007	URS
Data Report Shallow Soil Investigation Etiwanda Steam Station Units 1 and 2 Cooling Towers	August 11, 2005	URS
Petroleum Hydrocarbon (PHC)-Impacted Soil Remediation at SCE Etiwanda Generating Station	December 9, 1998	RWQCB
Chadwick Channel Site Investigation and Cleanup	March 21, 1997	SCE
Remedial Action at Etiwanda Generating Station	July 22, 1987	RWQCB
Etiwanda Generating Station, Phase II Environmental Site Assessment	June 6, 1997	Geraghty & Miller
Phase I Environmental Assessment, Etiwanda Generating Station	May 1997	CH2M HILL
Site Investigation at the Etiwanda Generating Station	December 27, 1985	SBCDEHS

Appendix C

Tables and Figures from ERM 2018

Table 1
Summary of Hazardous Materials Handli
NRG Etiwanda Generating Station
Rancho Cucamonga, CA

Item No.	Chemical	Description	Location	Removed Waste/Product						Tank/Container									
								Waste Codes				Capacity*							
				Name	Removal Date	Off-Site Shipment Date	Manifest/Bill of Lading No.	Federal	State	Quantity	Off-Site Destination	Type	Amount	Units	Cleaning Date	Cleaning Method	CUPA Tank Closure Certified on 10/11/2018	Regulated under APSA? (Y/N)	Closed per APSA? (Y/N)	Listed in 2015 SPCC Plan? (Y/N)	Notes
Facility Closure June - September 2018																				
Petroleum																				
	Distillate	Empty Distillate Tank, (formerly contained jet fuel)	Tank at Southeast End of Plant, south of the South Basin- Fig. 2 and	NA1993, Combustible Liquid, N.O.S., (Petroleum Distillates), PG III	7/23/2018	8/17/2018	8/17: Manifest #: 018328569JJK		331	140 Gal.	Crosby and Overton, Inc.- Long Beach, CA	AST	903,000	gal	7/23/2018	Pressure wash with hot water	Distillate Tank	Y	N	N	Tank previously emptied; Associated lines also cleaned- air gapped and flushed
	Distillate	Distillate Pump Reservoir and Pumps	Fig. 2 and 10	Non-RCRA Hazardous Waste, Liquid (Pond Water)	7/24/2018	7/24/2018	7/25: Manifest #: 018328105JJK		331	4600 Gal.	DeMenno Kerdoon- Compton, CA	Equipment	N/A		7/24/2018	Lines air gapped and flushed	N/A	NA	N	N	
	Diesel Fuel	Emergency Fire Pump Diesel Tank	Fig 2 and 3	NA1993, Diesel Fuel, Combustible Liquid, PG III NA1993, Combustible Liquid, N.O.S., (Petroleum Distillates), PG III	8/20/2018 8/13/2018	8/20/2018 8/17/2018	8/20: Bill of Lading: #MC-037786-04 8/17: Manifest #: 018328569JJK		N/A 331	479 Gal. 140 Gal.	McMullen Oil Pomona- Pomona, CA Crosby and Overton, Inc.- Long Beach, CA	AST	570	gal	8/13/2018	Pressure washed and flushed with water	Emergency Fire Pump Diesel Tank	N	N	Y	
	New lubricating oil	Room West Lube Oil Storage Tank (TK-05)	Unit #2- Fig. 2 and 7	Bulk Turbine Oil Non-RCRA Hazardous Waste, Liquid (Oily Water) Non-RCRA Hazardous Waste, Liquid (Oily Water)	7/25/2018 7/31/2018 8/3/2018	7/25/2018 7/31/2018 8/3/2018	Bill of Lading: #0789 7/31: Manifest #:018328108JJK 8/3: Manifest #: 018328109JJK		N/A 223 223	6800 Gal. 4600 Gal. 800 Gal.	McMullen Oil Recycling Co.- Santa Fe Springs, CA DeMenno Kerdoon- Compton, CA DeMenno Kerdoon- Compton, CA	AST	10,000	gal	7/31/2018	Pressure wash with hot water	Lube Oil Storage Tank (West) TK-05	Y	N	Y	Associated lines also cleaned- air gapped and flushed
	New lubricating oil	Room Center West Lube Oil Storage Tank (TK-04)	Unit #2- Fig. 2 and 7	Bulk Turbine Oil Bulk Turbine Oil Non-RCRA Hazardous Waste, Liquid (Oily Water)	7/26/2018 7/26/2018 8/3/2018	7/26/2018 7/26/2018 8/3/2018	Bill of Lading: #0790 Bill of Lading: #MC-037283-01 8/3: Manifest #: 018328109JJK		223	5000 Gal. 5900 Gal. 800 Gal.	McMullen Oil Recycling Co. McMullen Oil Recycling Co. DeMenno Kerdoon- Compton, CA	AST	6,000	gal	7/31/2018	Pressure wash with hot water	Lube Oil Storage Tank (Center West) TK-05	Y	N	Y	Associated lines also cleaned- air gapped and flushed
	New lubricating oil	Room Center East Lube Oil Storage Tank (TK-03)	Unit #2- Fig. 2 and 7	Bulk Turbine Oil Bulk Turbine Oil Non-RCRA Hazardous Waste, Liquid (Oily Water)	7/26/2018 7/26/2018 8/3/2018	7/26/2018 7/26/2018 8/3/2018	Bill of Lading: #0790 Bill of Lading: #MC-037283-01 8/3: Manifest #: 018328109JJK		223	5000 Gal. 5900 Gal. 800 Gal.	McMullen Oil Recycling Co. McMullen Oil Recycling Co. DeMenno Kerdoon- Compton, CA	AST	6,000	gal	7/31/2018	Pressure wash with hot water	Lube Oil Storage Tank (Center East) TK-03	Y	N	Y	Associated lines also cleaned- air gapped and flushed
	New lubricating oil	Room East Lube Oil Storage Tank (TK-02)	Unit #2- Fig. 2 and 7	Bulk Turbine Oil Non-RCRA Hazardous Waste, Liquid (Oily Water)	7/30/2018 8/3/2018	7/30/2018 8/3/2018	B.o.L.: #MC-037283-03 8/3: Manifest #: 018328109JJK		N/A 223	5072 Gal. 800 Gal.	McMullen Oil Recycling Co. DeMenno Kerdoon- Compton, CA	AST	6,000	gal	7/31/2018	Pressure wash with hot water	Lube Oil Storage Tank (East) TK-02	Y	N	Y	Associated lines also cleaned- air gapped and flushed
	Lubricating Oil	Unit #1 Lube Oil Tank	Unit #1- Fig. 2 and 8	Non-RCRA Hazardous Waste, Liquid (Lube Oil)	7/26/2018	7/26/2018	7/26: Manifest #: 018328113JJK		221	850 Gal.	DeMenno Kerdoon- Compton, CA	AST	5000	gal	7/27/2018	Pressure wash inside of tank	Unit #1 Lube Oil Tank	N	N	N	
	Lubricating Oil	Unit #1 Bowser Tank	Unit #1- Fig. 2 and 8	Non-RCRA Hazardous Waste, Liquid (Lube Oil)	7/26/2018	7/26/2018	7/26: Manifest #: 018328113JJK		221	850 Gal.	DeMenno Kerdoon- Compton, CA	AST	150	gal	7/27/2018	Pressure wash inside of tank	Unit #1 Bowser Tank	N	N	N	
	Lubricating Oil	Unit #2 Lube Oil Tank	Unit #2- Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid (Lube Oil)	7/26/2018	7/26/2018	7/26: Manifest #: 018328113JJK		221	850 Gal.	DeMenno Kerdoon- Compton, CA	AST	5000	gal	7/27/2018	Pressure wash inside of tank	Unit #2 Lube Oil Tank	N	N	N	
	Lubricating Oil	Unit #2 Bowser Tank	Unit #2- Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid (Lube Oil)	7/26/2018	7/26/2018	7/26: Manifest #: 018328113JJK		221	850 Gal.	DeMenno Kerdoon- Compton, CA	AST	150	gal	7/27/2018	Pressure wash inside of tank	Unit #2 Bowser Tank	N	N	N	
	Lubricating Oil	Unit #3 Turbine Oil Reservoir	Unit #3- Fig. 2 and 7	Bulk Turbine Oil Non-RCRA Hazardous Waste, Liquid (oily water)	7/30/2018 7/31/2018	7/30/2018 7/31/2018	7/30: B.o.L #: MC037283-03 7/31: Manifest #:018328108JJK		N/A 223	826 Gal. 4600 Gal.	McMullen Oil Recycling Storage DeMenno Kerdoon- Compton, CA	Reservoir	6,450	gal	7/31/2018	Pressure wash with hot water	Unit #3 Turbine Lube Oil Reservoir	N	N/A	Y	
	Lubricating Oil	Unit #3 Main Boiler Feed Pump Oil Recovery Tank	Unit #3- Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/3/2018	8/3/2018	8/3: Manifest # 018328109JJK		223	800 Gal.	Demenno Kerdoon- Compton, CA	Equipment	250	gal	8/3/2018	Pressure washed inside of tank	Unit #3 Main Boiler Feed Pump Oil Recovery Tank	N	N/A	N	
	Lubricating Oil	Unit #4 Turbine Oil Reservoir	Unit #4- Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid (oily water)	7/30/2018	7/31/2018	7/31: Manifest #:018328108JJK		223	4600 Gal.	DeMenno Kerdoon- Compton, CA	Reservoir	6,450	gal	7/31/2018	Pressure wash with hot water	Unit #4 Turbine Lube Oil Reservoir	N	N/A	Y	
	Lubricating Oil	Unit #4 Main Boiler Feed Pump Oil Recovery Tank	Unit #4- Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/3/2018	8/3/2018	8/3: Manifest # 018328109JJK		223	800 Gal.	Demenno Kerdoon- Compton, CA	Equipment	250	gal	8/3/2018	Pressure washed inside of tank	Unit #4 Main Boiler Feed Pump Oil Recovery Tank	N	N/A	N	
	Lubricating Oil	Unit #5 Lube Oil Tank	Unit #5- Fig. 2 and 8	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/2/2018	8/3/2018	8/3: Manifest # 018328109JJK		223	800 Gal.	Demenno Kerdoon- Compton, CA	AST	6,500	gal	8/3/2018	Pressure washed inside of tank	Unit #5 Lube Oil Tank	N	N/A	N	
	Lubricating Oil	Unit #5 Hydraulic Reservoir	Unit #5- Fig. 2 and 8	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/2/2018	8/3/2018	8/3: Manifest # 018328109JJK		223	800 Gal.	Demenno Kerdoon- Compton, CA	Reservoir	200	gal	8/2/2018	Pressure washed inside of tank	Unit #5 Hydraulic Reservoir	N	N/A	N	
	Lubricating oil / Used Oil	Unit 4 Drum Storage Area	Unit #4- Fig. 2 and 7	Oil / Grease Oil / Grease	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	35 55 gallon drums (1925 gal)	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Drum	35 (1925 gal)	55-gal drum	7/25/2018 and 7/27/2018	Drum Waste recycled off-site	N/A	N/A	N/A	Y	See Table 2 for detailed drum inventory. Oily waste from emptied equipment was collected in drums and staged for shipment in Unit 4 Drum Storage Area.Total volume listed here includes oily waste from various plant equipment with a capacity less than 55 gallons of oil - pumps and pump reservoirs, fan bearings, hydraulic coupling, fans, gear boxes, and compressors from the plant. Specific equipment listed below has a capacity > 55 gallons and the quantity shipped off-site is included in the total here.
	Lubricating Oil	Unit 3 West F.D. Fan Hydraulic Coupling	Unit #3- Fig. 2 and 4	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Reservoir	245	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	Y	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	Lubricating Oil	Unit 3 East F.D. Fan Hydraulic Coupling	Unit #3- Fig. 2 and 4	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Reservoir	245	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	Y	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	Lubricating Oil	Unit 3 F.D. Fan	Unit #3- Fig. 2 and 4	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Equipment	245	gal.	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	Y	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	Lubricating Oil	Unit 3 Hydraulic Coupling (MBFP Hyd. Coup.)	Unit #3- Fig. 2 and 7	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Reservoir	245	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	Y	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	Lubricating Oil	Unit 3 Seal Oil Vacuum Tanks (Iorn Hourse System)	Unit #3- Fig. 2 and 7	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Reservoir	400	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	Y	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	Lubricating Oil	S.U.B.F.Pp - Units 3	Unit #3- Fig. 2 and 7	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	AST	75	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	N	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	Lubricating Oil	S.U.B.F.Pp - Units 4	Unit #4- Fig. 2 and 7	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	AST	75	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	N	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	Lubricating Oil	Unit 4 West F.D. Fan Hydraulic Coupling	Unit #4- Fig. 2 and 4	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Reservoir	245	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	Y	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	Lubricating Oil	Unit 4 East F.D. Fan Hydraulic Coupling	Unit #4- Fig. 2 and 4	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Reservoir	245	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	Y	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	Lubricating Oil	Unit 4 F.D. Fan	Unit #4- Fig. 2 and 4	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Equipment	240	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	Y	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	Lubricating Oil	Unit 4 Hydraulic Coupling (MBFP Hyd. Coup.)	Unit #4- Fig. 2 and 4	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Reservoir	245	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	Y	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	Lubricating Oil	Unit 4 Seal Oil Vacuum Tank (Iorn Hourse System)	Unit #4- Fig. 2 and 7	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Reservoir	400	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	Y	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	T-32 Equipment Oil	Unit #3- Cooling Tower fans gear boxes	Unit #3- Fig. 2,4, and 5	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Equipment	150	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	N	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	T-32 Equipment Oil	BCPp Reservoirs - Unit 3	Unit #3	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Reservoir	60	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	N	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	T-32 Equipment Oil	APH Bearings Hot & Cold Bearings - Unit 3	Unit #3- Fig. 2 and 7	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Equipment	60	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	N	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	T-32 Equipment Oil	Cooling Tower Fans gear boxes- Unit 4	Unit #4- Fig. 2,3, and 4	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Equipment	150	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	N	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	T-32 Equipment Oil	BCPp Reservoirs- Unit 4	Unit #4	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Equipment	60	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	N	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	T-32 Equipment Oil	Unit #3 Main Boiler Feed Pump (MBFP) Hydraulic Oil Pumps (North, South, and DC)	Unit #3- Fig. 2 and 7	Oily Waste Oily Waste	7/25/2018 7/27/2031	7/25/2018 7/27/2031	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Equipment	600	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	N	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	T-32 Equipment Oil	Unit #4 Main Boiler Feed Pump (MBFP) Hydraulic Oil Pumps (North, South, and DC)	Unit #3- Fig. 2 and 7	Oily Waste Oily Waste	7/25/2018 7/27/2038	7/25/2018 7/27/2038	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Equipment	600	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	N	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	T-32 Equipment Oil	APH Bearings Hot & Cold Bearings - Unit 4	Unit #4- Fig. 2 and 7	Oily Waste Oily Waste	7/25/2018 7/27/2018	7/25/2018 7/27/2018	B.o.L #: 0788, 0792 B.o.L #: 0791		Non-Haz	see above	McMullen Oil Recycling, Inc.- Irwindale, CA McMullen Oil Recycling, Inc.- Irwindale, CA	Equipment	60	gal	Prior to 7/16/2018	Oil drained from equipment and recycled off-site	N/A	N	N/A	N	Volume removed includes tank or equipment oily waste. Material shipped off-site in drums.
	Lubricating Oil	Unit #5 Oil Filter Tank	Unit #5- Fig. 2 and 8	Out of Service- Cleaned and Closed prior to 7/16/201								Reservoir	<100	gal	Prior to 7/16/2018	Cleaned prior to 7/16/2018	N/A	N	N/A	N	Reportedly previously emptied and cleaned
	Oil/ Water	Pond Oil Skimmer and Basin (At Retention Basins)	Fig. 2 and 10	Non-RCRA Hazardous Waste, Liquid (Pond Water)	7/25/2018	7/25/2018	7/25: Manifest #: 018328105JJK		331	4600 Gal.	DeMenno Kerdoon- Compton, CA	AST	250	gal	7/25/2018	Pressure wash with hot water	Pond Oil Skimmer	N	N/A	Y	
	Oily Water	Waste Oil Skimmer Tank (North)	Fig. 2 and 10	Non-RCRA Hazardous Waste, Liquid (Pond Water)	7/25/2018	7/25/2018	7/25: Manifest #: 018328105JJK		331	4600 Gal.	DeMenno Kerdoon- Compton, CA	AST	2000	gal	7/25/2018	Pressure washed inside of tank	Waste Oil Skimmer Tank (North) Tk-08	N	N/A	N	Associated lines also cleaned- air gapped and flushed
	Oily Water	Waste Oil Skimmer Tank (South)	Fig. 2 and 10	Non-RCRA Hazardous Waste, Liquid (Pond Water)	7/25/2018	7/25/2018	7/25: Manifest #: 018328105JJK		331	4600 Gal.	DeMenno Kerdoon- Compton, CA	AST	2000	gal	7/25/2018	Pressure washed inside of tank	Waste Oil Skimmer Tank (South) Tk-09	N	N/A	N	Associated lines also cleaned- air gapped and flushed
	Oily water	Pump Reservoir Tank	Fig. 2 and 10	Non-RCRA Hazardous Waste, Liquid (Pond Water)	7/24/2018	7/25/2018	7/25: Manifest #: 018328105JJK		331	4600 Gal.	DeMenno Kerdoon- Compton, CA	AST	125	gal	7/24/2018	Pressure washed inside of tank	Pump Reservoir Tank	N	N/A	N	
	Oily debris	13 55-gallon drums in Accumulation Area	Hazardous waste accumulation area	Non-RCRA Hazardous Waste, Solid (Oily Debris)	8/17/2018	8/17/2018	8/17: Manifest #: 018328656JJK		352		US Ecology Inc.- Beatty, NV	Drum	55	gal	8/17/2018	Debris removed from drums, placed in 10 yd. bin, and disposed of off-site	N/A	N	N/A	N	13 55-gallon drums
	Oily Water	North General Retention Basin	Fig. 2 and 10	Non-RCRA Hazardous Waste, Liquid (Pond Water) Non-Hazardous Waste, Solid (Soil)	7/20/2018 8/14/2018	7/20/2018 8/14/2018	7/20: Manifest #: 018327913JJK 8/14: 0820180002, 0820180003, 0820180004, 0820180005		331 Non-Haz Non-Haz	4600 Gal. 4 16 yd. Bins	DeMenno Kerdoon- Compton, CA Chiquita Canyon Landfill- Castaic, CA	Basin	651,702	gal	7/20/2018	Cleaned out solids, pressure washed basin	N/A	N	N/A	N	
	Oily Water	South General Retention Basin	Fig. 2 and 10	Non-RCRA Hazardous Waste, Liquid (Pond Water)- ALL Non-Hazardous Waste, Solid (Soil)	7/17/2018 7/18/2018 7/19/2018 7/20/2018 8/14/2018	7/17/2018 7/18/2018 7/19/2018 7/20/2018 8/14/2018	7/17: Manifest #: 018327910JJK 7/18: Manifest #: 018327911JJK 7/19: Manifest #: 018327912JJK 7/20: Manifest #: 018327913JJK 9/14: Manifest #: 0820180002, 0820180003, 0820180004, 0820180005		331 331 331 331	4600 Gal. 4600 Gal. 4600 Gal. 4600 Gal. 4 16 yd. Bins	DeMenno Kerdoon- Compton, CA DeMenno Kerdoon- Compton, CA DeMenno Kerdoon- Compton, CA DeMenno Kerdoon- Compton, CA Chiquita Canyon Landfill- Castaic, CA	Basin	651,702	gal	7/20/2018	Cleaned out solids, pressure washed basin	N/A	N	N/A	N	
	Oily Water	Unit #3&4 Oil Water Separator and Oily Waste Sump Junction Box (North Unit)	Fig. 2 and 4	Non-RCRA Hazardous Waste, Liquid (Pond Water, Clarifier)	7/23/2018 7/24/2018 7/25/2018	7/23/2018 7/24/2018 7/25/2018	7/23: Manifest #:018327914JJK 7/24: Manifest #:018328107JJK 7/25: Manifest #: 018328106JJK		331 223 223	4600 Gal. 4600 Gal. 4600 Gal.	DeMenno Kerdoon- Compton, CA DeMenno Kerdoon- Compton, CA DeMenno Kerdoon- Compton, CA	Equipment / Reservoir	5,000	gal	7/25/2018	Pressure wash, flush with water	Unit #3 & #4 Oil Water Separator and Oily Waste Sump Junction Box	N	N/A	N	

Table 1
Summary of Hazardous Materials Handli
NRG Etiwanda Generating Station
Rancho Cucamonga, CA

Item No.	Chemical	Description	Location	Removed Waste/Product: Name	Removal Date	Off-Site Shipment Date	Manifest/Bill of Lading No.	Waste Codes: Federal	Waste Codes: State	Quantity	Off-Site Destination	Tank/Container: Type	Capacity[a]: Amount	Capacity[a]: Units	Cleaning Date	Cleaning Method	CUPA Tank Closure Certified on 10/11/2018	Regulated under APSA? (Y/N)	Closed per APSA? (Y/N)	Listed in 2015 SPCC Plan? (Y/N)	Notes
	Oily Water	Units #3&4 Oil Water Separator (South Unit)	Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid, Oily water	8/8/2018	8/8/2018	8/8: Manifest #: 018328110JJK		223	850 Gal.	Demenno Kerdoon- Compton, CA	Equipment / Reservoir	1,500	gal	8/8/2018	Pressure washed insidemenno compton, of tank	Unit #3 & #4 Oil Water Separator - South	N	N/A	N	
Transformers																					
	Transformer Oil	Unit 1 & 2 Reserve Lighting Transformer	Unit #1- Fig. 2 and 8	UN2315, Polychlorinated biphenyls, Lquid, 9, PG II	8/7/2018	8/7/2018	8/7: Manifest #: 009568143 FLE		731	767 Gal.	Clean Harbors LA, LLC, LA, CA	Transformer	228	gal	8/7/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Tranformer Oil	Res. Aux. Transformer- Unit 1	Unit #1- Fig. 2 and 8	Non-RCRA Hazardous Waste, Liquid (Mineral Oil <2 ppm PCB)	8/6/2018	8/6/2018	8/6: Manifest #: 009568146FLE		221	4797 Gal.	Clean Harbors LA, LLC, LA, CA	Transformer	4240	gal	8/6/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit 2 Reactor	Unit #2- Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid (Mineral Oil <2 ppm PCB)	8/6/2018	8/6/2018	8/6: Manifest #: 009568146FLE		221	4797 Gal.	Clean Harbors LA, LLC, LA, CA	Transformer	814	gal	8/6/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	East Cooling Tower Sub. Station- Unit 1	Fig. #2 and 3	Non-RCRA Hazardous Waste, Liquid (Mineral Oil <2 ppm PCB)	8/6/2018	8/6/2018	8/6: Manifest #: 009568146FLE		221	4797 Gal.	Clean Harbors LA, LLC, LA, CA	Transformer	430	gal	8/6/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	East Cooling Tower Sub. Station- Unit 2	Fig. #2 and 3	Non-RCRA Hazardous Waste, Liquid (Mineral Oil <2 ppm PCB)	8/6/2018	8/6/2018	8/6: Manifest #: 009568146FLE		221	4797 Gal.	Clean Harbors LA, LLC, LA, CA	Transformer	430	gal	8/6/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	West Cooling Tower Sub. Station- Unit 1	Fig. #2 and 3	Non-RCRA Hazardous Waste, Liquid (Mineral Oil <2 ppm PCB)	8/6/2018	8/6/2018	8/6: Manifest #: 009568146FLE		221	4797 Gal.	Clean Harbors LA, LLC, LA, CA	Transformer	430	gal	8/6/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	West Cooling Tower Sub. Station- Unit 2	Fig. #2 and 3	Non-RCRA Hazardous Waste, Liquid (Mineral Oil <2 ppm PCB)	8/6/2018	8/6/2018	8/6: Manifest #: 009568146FLE		221	4797 Gal.	Clean Harbors LA, LLC, LA, CA	Transformer	430	gal	8/7/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit 3 Cooling Tower East Substation Transformer	Fig. 2 and 5	Non-RCRA Hazardous Waste, Liquid (Mineral Oil <2 ppm PCB)	8/6/2018	8/6/2018	8/6: Manifest #: 009568146FLE		221	4797 Gal.	Clean Harbors LA, LLC, LA, CA	Transformer	370	gal	8/6/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit 3 Cooling Tower West Substation Transformer	Fig. 2 and 5	Non-RCRA Hazardous Waste, Liquid (Mineral Oil <2 ppm PCB)	8/6/2018	8/6/2018	8/6: Manifest #: 009568146FLE		221	4797 Gal.	Clean Harbors LA, LLC, LA, CA	Transformer	370	gal	8/6/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit #1&2 Cooling Towers Transformer (MGE)	Fig. 2 and 6	Non-RCRA Hazardous Waste, Liquid (Mineral Oil <2 ppm PCB)	8/6/2018	8/6/2018	8/6: Manifest #: 009568146FLE		221	4797 Gal.	Clean Harbors LA, LLC, LA, CA	Transformer	19800	gal	8/6/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit 5 Main Transformer	Unit #5- Fig. #2 and 8	Non-RCRA Hazardous Waste, Liquids, (Mineral Oil <2 ppm PCB) Non-RCRA Hazardous Waste, Liquids, (Mineral Oil <2 ppm PCB)	8/6/2018 8/7/2017	8/6/2018 8/7/2018	8/6: Manifest #: 009568283FLE 8/7: Manifest #: 009573339FLE		221 221	5021 Gal. 2182 Gal.	Clean Harbors LA, LLC- LA, CA Clean Harbors LA, LLC- LA, CA	Transformer	6775	gal	8/7/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit 5 Emergency Station Service Transformer	Unit #5- Fig. #2 and 8	Non RCRA- Hazardous Waste, Liquids (Mineral Oil <2 ppm PCBs)	8/7/2018	8/7/2018	8/7: Manifest #: 009573339FLE		221	2182 Gal.	Clean Harbors LA, LLC- LA, CA	Transformer	700	gal	8/7/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit 3 & 4 Spare Main Transformer	Fig. 2 and 7	Non-RCRA Hazardous Waste Liquids (Mineral Oil <2 PPM PCB) (All)	7/31/2018 7/31/2018 8/1/2018	7/31/2018 7/31/2018 8/1/2018	7/31: Manifest #: 009568285FLE 7/31: Manifest #: 009568287FLE 8/1: Manifest #: 009983352FLE		221 221 221	6670 Gal. 7000 Gal. 6666 Gal.	Clean Harbors Los Angeles, Los Angeles, CA (All)	Transformer	19800	gal	8/1/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit 3 Main Transformer	Fig. 2 and 7	Non-RCRA Hazardous Waste, Used Oil, NOS (<45ppm PCB)	7/31/2018 7/31/2018	7/31/2018 7/31/2018	7/31: Manifest #: 013557764JJK 7/31: Manifest #: 013557765JJK		261 261	6500 Gal. 6800 Gal.	Environmental Management Utility Serv. LLC, Phoenix, AZ	Transformer	11725	gal	7/31/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit 4 Main Transformer	Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid (Mineral Oil, <2 PPM PCB) (All)	7/31/2018 8/1/2018 8/3/2018	7/31/2018 8/1/2018 8/3/2018	7/31: Manifest #: 009568282FLE 8/1: Manifest #: 009983353FLE 8/3: Manifest #: 009568147FLE		221 221 221	5000 Gal. 6550 Gal. 6100 Gal.	Clean Harbors Los Angeles, Los Angeles, CA	Transformer	19800	gal	8/3/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit 3 Auxiliary Transformer	Fig. 2 and 7	Non-RCRA Hazardous Waste Liquids (Mineral Oil <2 PPM PCB)	8/3/2018	8/3/2018	8/3: Manifest #: 009568145FLE		221	5280 Gal.	Clean Harbors Los Angeles, Los Angeles, CA	Transformer	2640	gal	8/3/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit 4 Auxiliary Transformer	Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid (Mineral Oil <2 ppm PCB)	8/3/2018	8/3/2018	8/3: Manifest #: 009568147FLE		221	6100 Gal.	Clean Harbors Los Angeles, Los Angeles, CA	Transformer	2640	gal	8/3/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit 3 North Reactor	Fig. 2 and 7	Non-RCRA Hazardous Waste, Used Oil, NOS (<45ppm PCB)	7/31/2018	7/31/2018	7/31: Manifest #: 013557764JJK		261	6500 Gal.	Environmental Management Utility Serv. LLC, Phoenix, AZ	Transformer	610	gal	7/31/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit 3 South Reactor	Fig. 2 and 7	Non-RCRA Hazardous Waste, Used Oil, NOS (<45ppm PCB)	7/31/2018	7/31/2018	7/31: Manifest #: 013557764JJK		261	6500 Gal.	Environmental Management Utility Serv. LLC, Phoenix, AZ	Transformer	583	gal	7/31/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit 4 Reactor	Fig. 2 and 7	Non-RCRA Hazardous Waste, Used Oil, NOS (<45ppm PCB)	7/31/2018	7/31/2018	7/31: Manifest #: 013557764JJK		261	6500 Gal.	Environmental Management Utility Serv. LLC, Phoenix, AZ	Transformer	750	gal	7/31/2018	Drained and Oil taken off-site	N/A	N	N/A	Y	Drained and Oil taken off-site
	Transformer Oil	Unit 5 Station Service Transformer	Unit #5- Fig. #2 and 8	Remaining in Service								Transformer	399	gal	N/A	Remaining in Service	N/A	N	N/A	Y	
	Transformer Oil	Units 3 & 4 66KV Reserve Transforme	Unit #3- Fig. #2 and 7	Remaining in Service								Transformer	3320		N/A	Remaining in Service	N/A	N	N/A	Y	
	Transformer Oil	Unit 4 Cooling Tower East Substation Transformer	Fig. 2 and 4	Remaining in Service								Transformer	370	gal	N/A	Remaining in Service	N/A	N	N/A	Y	
	Transformer Oil	Unit 4 Cooling Tower West Substation Transformer	Fig. 2 and 4	Remaining in Service								Transformer	370	gal	N/A	Remaining in Service	N/A	N	N/A	Y	
	Transformer Oil	Unit 1 Station Service Transformer	Fig. 2 and 5	Remaining in Service								Transformer	610	gal	N/A	Remaining in Service	N/A	N	N/A	Y	
	Transformer Oil	Unit 1 Lighting Transformer	Fig. 2 and 5	Remaining in Service								Transformer	228	gal	N/A	Remaining in Service	N/A	N	N/A	Y	
	Transformer Oil	Unit 2 Station Service Transformer	Fig. 2 and 7	Remaining in Service								Transformer	610	gal	N/A	Remaining in Service	N/A	N	NA	Y	
	Transformer Oil	Unit 2 Lighting Transformer	Fig. 2 and 7	Remaining in Service								Transformer	228	gal	N/A	Remaining in Service	N/A	N	NA	Y	
	Transformer Oil	Unit 3 Station Service Transformer	Figure 16	Remaining in Service								Transformer	1,069	gal	N/A	Remaining in Service	N/A	N	NA	Y	
	Transformer Oil	Unit 4 Service Station Transformer	Figure 16	Remaining in Service								Transformer	1,069	gal	N/A	Remaining in Service	N/A	N	NA	Y	
	Transformer Oil	Cooling Tower Make-up Sub North Transformer	Fig. 2 and 5	Remaining in Service								Transformer	200	gal	N/A	Remaining in Service	N/A	N	NA	Y	
	Transformer Oil	Cooling Tower Make-up Sub South Transformer	Fig. 2 and 5	Remaining in Service								Transformer	200	gal	N/A	Remaining in Service	N/A	N	NA	Y	
	Transformer Oil	East Well Water Pump Transformer	Off property to the south of the Distillate Tank	Remaining in Service								Transformer	270	gal	N/A	Remaining in Service	N/A	N	NA	Y	
	Transformer Oil	Center Well Water Pump Transformer	Off property near South	Remaining in Service								Transformer	270	gal	N/A	Remaining in Service	N/A	N	NA	Y	
	Transformer Oil	West Well Water Pump Transformer	Adjacent to Northwest corner of the switch yard	Remaining in Service								Transformer	270	gal	N/A	Remaining in Service	N/A	N/A	N/A	Y	
	Transformer Oil	Unit 1 66KV Spare Res.Transformer	Fig. 2 and 8	Out of Service								Transformer	4,240	gal	N/A	Previously drained and removed from service	N/A	N	N/A	N	Previously removed from Service
	Transformer Oil	Unit 5 Spare Main Transformer	Unit #5- Fig. #2 and 8	Out of Service								Transformer	9430	gal	N/A	Previously drained and removed from service	N/A	N/A	N/A	N	Previously removed from Service
Chemicals (Acids and Bases)																					
	Ammonia	Ammonia and Hydrazine Flash Mixing Tank Units 1 & 2	Unit #1&2 Chemical Storage Building	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/3/2018	8/3/2018	8/3: Manifest # 018328109JJK		223	800 Gal.	Demenno Kerdoon- Compton, CA	AST	20	gal	N/A	Out of Service	Units #1 & #2 Ammonia Tank	N	N/A	N/A	Previously removed from service.
	Ammonia	Unit #3 & #4 West Ammonia Day Tank	Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/3/2018	8/3/2018	8/3: Manifest # 018328109JJK		223	800 Gal.	Demenno Kerdoon- Compton, CA	AST	30	gal ea.	8/3/2018	Triple flushed the tank system with cold water	Unit #3 & #4 West Ammonia Day Tank	N	N/A	N/A	
	Ammonia	Unit #3 & #4 East Ammonia Day Tank	Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/3/2018	8/3/2018	8/3: Manifest # 018328109JJK		223	800 Gal.	Demenno Kerdoon- Compton, CA	AST	30	gal ea.	8/3/2018	Triple flushed the tank system with cold water	Unit #3 & #4 East Ammonia Day Tank	N	N/A	N/A	
	Ammonia (19%) (aqueous)	Ammonium Hydroxide (North) Tank - Unit #4	Fig. 2 and 7	Ammonium hydroxide	6/26/2018	6/26/2018	502691-02	N/A	N/A	5000 Gal.	Warehouse Transfer- Hanford, CA	AST	10000	gal	6/26/2018	Triple flushed the tank system with cold water	Ammonium Hydroxide (North) Tank - Unit #4	N	NA	N/A	Aqua Ammonia removed as product (not waste) by Airgas. Tank purchased and removed from site by Airgas on 10/25/2018
	Ammonia (19%) (aqueous)	Ammonium Hydroxide (South) Tank - Unit #4	Fig. 2 and 7	Ammonium hydroxide	6/26/2018	6/26/2018	502691-01	N/A	N/A	4300 Gal.	Warehouse Transfer- Hanford, CA	AST	10000	gal	6/26/2018	Triple flushed the tank system with cold water	Ammonium Hydroxide (South) Tank - Unit #4	N	NA	N/A	Aqua Ammonia removed as product (not waste) by Airgas. Tank purchased and removed from site by Airgas on 10/25/2019
	Water	Reverse Osmosis Basin	Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid (Pond Water)-Both Non-Hazardous Waste, Solid (Soil)	7/17/2018 7/18/2018 8/14/2018	7/17/2018 7/18/2018 8/14/2018	7/17: Manifest #: 018327910JJK 7/18: Manifest #: 018327911JJK 8/14: 0820180002, 0820180003, 0820180004, 0820180005		331 331	4600 Gal. 4600 Gal. 4 16 yd. Bins	DeMenno Kerdoon- Compton, CA DeMenno Kerdoon- Compton, CA Chiquita Canyon Landfill- Castaic, CA	Basin	20,000	gal	7/18/2018	Pressure washed basin	N/A	N	N/A	N/A	
	Caustic	Caustic Tank - Units 1 & 2	Unit #1&2 Chemical Storage Building	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/3/2018	8/3/2018	8/3: Manifest # 018328109JJK		223	800 Gal.	Demenno Kerdoon- Compton, CA	AST	200	gal	N/A	Out of Service	Units #1 & #2 Caustic Tank - Sodium Hydroxide	N	N/A	N/A	Associated lines also cleaned- air gapped and flushed
	Caustic	Units 3&4- Caustic Tank	Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/3/2018	8/3/2018	8/3: Manifest # 018328109JJK		223	800 Gal.	Demenno Kerdoon- Compton, CA	AST	100	gal	N/A	Out of Service	Caustic Tank (Units 3&4)	N	NA	N/A	
	Hydrazine	Hydrazine Tank - Units 1 & 2	Unit #1&2 Chemical Storage Building- Fig. 2 and 5	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/3/2018	8/3/2018	8/3: Manifest # 018328109JJK		223	800 Gal.	Demenno Kerdoon- Compton, CA	AST	150	gal	N/A	Out of Service	Units #1 & #2 Hydrazine Tank	N	N/A	N/A	Associated lines also cleaned- air gapped and flushed
	Hydrazine	Unit #3 & #4 West Hydrazine Day Tank	Unit 3- Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/3/2018	8/3/2018	8/3: Manifest # 018328109JJK		223	800 Gal.	Demenno Kerdoon- Compton, CA	AST	30	gal	8/3/2018	Triple flushed the tank system with water	Unit #3 & #4 West Hydrazine Day Tank	N	N/A	N/A	
	Hydrazine	Unit #3 & #4 East Hydrazine Day Tank	Unit 4-- Fig. 2 and 7	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/3/2018	8/3/2018	8/3: Manifest # 018328109JJK		223	800 Gal.	Demenno Kerdoon- Compton, CA	AST	30	gal	8/3/2018	Triple flushed the tank system with water	Unit #3 & #4 East Hydrazine Day Tank	N	N/A	N/A	
	NALCO 7468 Cooling Water Defoamer	NALCO 7468 Cooling Water Defoamer	Units #3&4 QA/QC Lab- Fig. #2 and 7	Non-RCRA Hazardous Waste, Liquid (Amorphous Silica Solution Defoamer)	8/17/2018	8/17/2018	8/17: Manifest #: 018328569JJK		3313	45 Gal.	Crosby and Overton, Inc.- Long Beach, CA	Plastic/ Non-metallic Drum, carboy	5	gal	8/17/2018	Taken off-site and disposed of.	NA	N	N/A	N/A	Removed from site as solid waste
	NALCO 7330	NALCO 7330	Unit #3 Chemical Storage Area- Fig. # 2 and 7	UN3265, Waste, Corrosive Liquid, Acidic, Organic, N.O.S., (Isothiazolinone microbiocide), 8, PGII	8/17/2018	8/17/2018	8/17: Manifest #: 018328569JJK	D002	135	5 gal.	Crosby and Overton, Inc.- Long Beach, CA	Plastic drum carboy, other	5	gal	8/17/2018	Taken off-site and disposed of.	NA	N	NA	N/A	
	NALCO 2837 Molybdate Corrosion Inhibitor	NALCO 2837 Molybdate Corrosion Inhibitor	Units #3&4- Fig. 2, 7, and 25G	Non-RCRA Hazardous Waste, Liquid (Amorphous Silica Solution Defoamer)	8/17/2018	8/17/2018	8/17: Manifest #: 018328569JJK		331	45 Gal.	Crosby and Overton, Inc.- Long Beach, CA	Plastic/ Non-metallic Drum, carboy	5	gal	8/17/2018	Taken off-site and disposed of.		N	N/A	N/A	
	Trisodium Phosphate	Phosphate Tank - Units 1 & 2 and lines	Unit #1&2 Chemical Storage Building- Fig. 2 and 5	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/3/2018	8/3/2018	8/3: Manifest # 018328109JJK		223	800 Gal.	Demenno Kerdoon- Compton, CA	AST	200	gal		Previously taken out of service	Units #1 & #2 Phosphate Tank	N	NA	N/A	Associated lines also cleaned- air gapped and flushed
	Trisodium Phosphate	Phosphate Mixing Tank - Units 1 & 2 and lines	Unit #1&2 Chemical Storage Building- Fig. 2 and 5	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/3/2018	8/3/2018	8/3: Manifest # 018328109JJK		223	800 Gal.	Demenno Kerdoon- Compton, CA	AST	200	gal		Previously taken out of service	Phosphate mixing tank - Units #1 & #2	N	NA	N/A	Associated lines also cleaned- air gapped and flushed

Table 1
Summary of Hazardous Materials Handli
NRG Etiwanda Generating Station
Rancho Cucamonga, CA

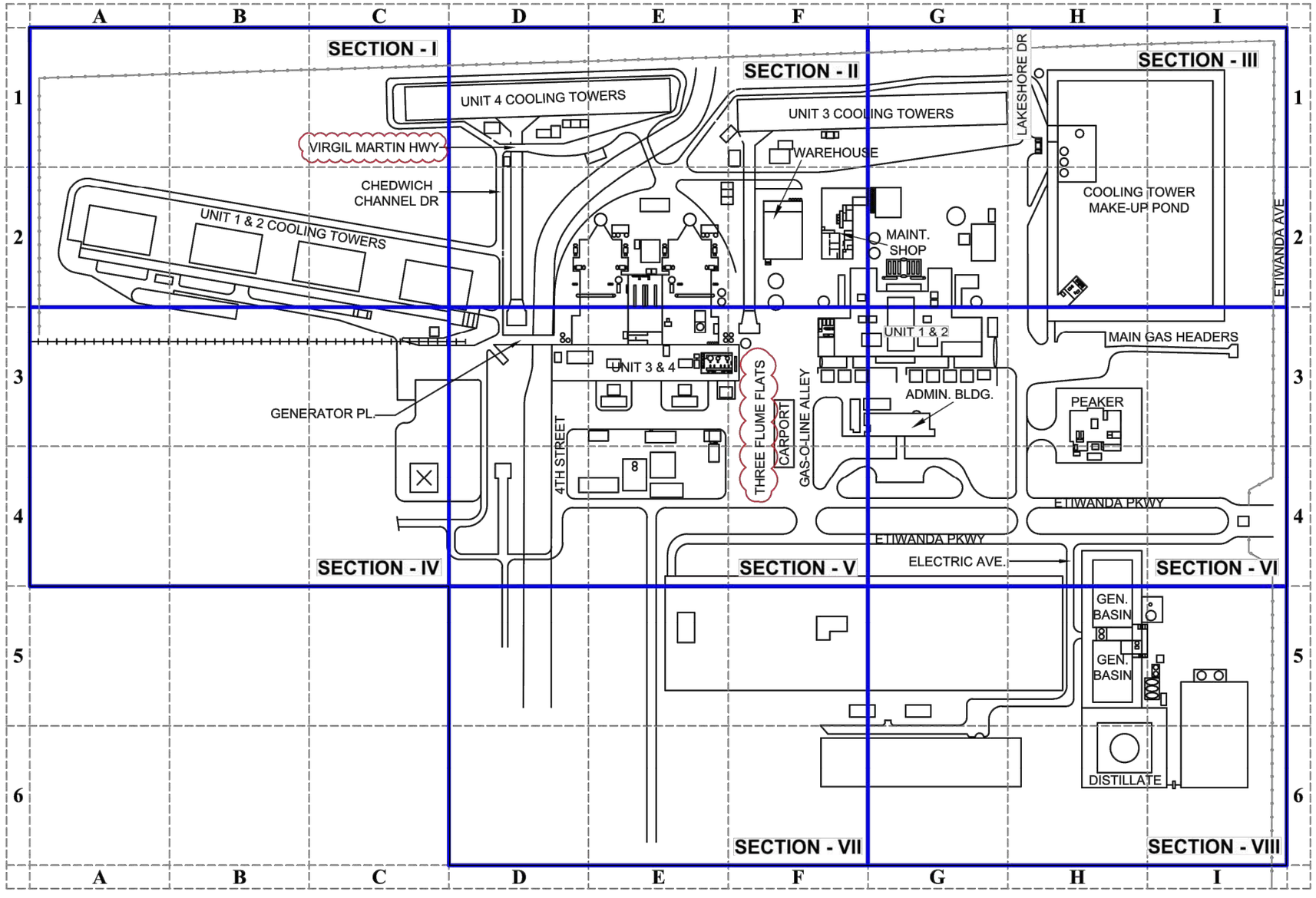
				Removed Waste/Product								Tank/Container								
								Waste Codes					Capacity*							
Item No.	Chemical	Description	Location	Name	Removal Date	Off-Site Shipment Date	Manifest/Bill of Lading No.	Federal	State	Quantity	Off-Site Destination	Type	Amount	Units	Cleaning Date	Cleaning Method	CUPA Tank Closure Certified on 10/11/2018	Regulated under APSA? (Y/N)	Closed per APSA? (Y/N)	Listed in 2015 SPCC Plan? (Y/N)	Notes
	Bearing Cooling Water Chemical Feed Tank	Unit #3 Bearing Cooling Water Chemical Feed Tank	Units #3&4- Fig. #2&7	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/3/2018	8/3/2018	8/3: Manifest # 018328109JK		223	800 Gal.	Demenno Kerdoon- Compton, CA	AST	150	gal	8/3/2018	Pressure washed tank	Unit 3 Bearing Cooling Water Chemical Feed Tank	N	NA	N/A	
	Trisodium Phosphate	Units #3&4 Phosphate Tank	Units #3&4- Fig. #2 & 7	Non-RCRA Hazardous Waste, Liquid (Oily Water)	8/3/2018	8/3/2018	8/3: Manifest # 018328109JK		223	800 Gal.	Demenno Kerdoon- Compton, CA	AST	100	gal		Previously taken out of service	Trisodium phosphate tank - Units #3 & #4	N	NA	N/A	
	Soda ash, sodium carbonate	Soda ash, sodium carbonate	Unit 3 Chemical Storage- Fig. 2&7	UN3262, Corrosive Solid, Basic, Inorganic, N.O.S., (Dense Soda Ash), 8, PGIII UN3262, Corrosive Solid, Basic, Inorganic, N.O.S., (Dense Soda Ash), 8, PGII	8/17/2018	8/17/2018	8/17: Manifest #: 018328569JJK		181 181	2000 lbs. 100 lbs.	Crosby and Overton, Inc.- Long Beach, CA	Bag	1500	lbs	8/17/2018	Disposed of off-site	NA	N	NA	N/A	
	Sodium hydroxide (30%)	Sodium hydroxide (30%)	R.O. Building, Carport- Fig. #2 and 7	UN1824, WASTE Sodium Hydroxide Solution, 8, PG I	8/17/2018	8/17/2018	8/17: Manifest #: 018328569JJK	D002	141	20 Gal.	Crosby and Overton, Inc.- Long Beach, CA	Tank/ plastic non/ metallic drum	100	gal	8/17/2018			N	NA	N/A	
	Sulfuric Acid	Unit #3 Sulfuric Acid Tank	Fig. 2 and 4	UN1830, Sulfuric Acid 93%, 8, PG II	9/24/2018 9/25/2018	9/24/2018 9/25/2019	9/24: B.o.L #: No Number, Dated: 9/24 9/25: B.o.L. #: No Number, Dated 9/25			3400 gal. 3500 gal.	U.S. Ecology Vernon Inc.- Los Angeles, CA	AST	10000	gal	9/25/2018	Disposed of off-site, tank pressure washed clean	Unit #3 Sulfuric Acid Tank	N	NA	N/A	
	Sulfuric Acid	Unit #4 Sulfuric Acid Tank	Fig. 2 and 4	UN1830, Sulfuric Acid 93%, 8, PG II	9/25/2018 9/26/2018	9/25/2018 9/26/2019	9/25: B.o.L #: No Number, Dated: 9/25 9/26: B.o.L. #: No Number, Dated 9/26			3500 gal. 3500 gal.	U.S. Ecology Vernon Inc.- Los Angeles, CA	AST	10000	gal	9/26/2018	Disposed of off-site, tank pressure washed clean	Unit #4 Sulfuric Acid Tank	N	NA	N/A	
	Urea	Urea Tank - Units 1 & 2		Out of Service- Cleaned and closed prior to 7/16/2018								AST	150	gal	N/A	Previously drained and removed from Service	NA	N	N/A	N/A	Previously removed from Service
	Ammonia (19%) (aqueous)	Ammonia containers	N/A	Out of Service- Removed from Property prior to 7/16/2018								Plastic/ non metallic drum			N/A	Removed from site	NA	N	NA	N/A	Removed prior to closure activities
	Ammonia (19%) (aqueous)	Ammonia containers	N/A	Out of Service- Removed from Property prior to 7/16/2018								Tote Bin			N/A	Removed from site	NA	N	NA	N/A	Removed prior to closure activities
	Anodamine	Anodamine Tank - Unit 3	N/A	Out of Service- Removed from Property prior to 7/16/2018								AST	250	gal.	Previously emptied and cleaned	Out of Service- Removed from site	NA	N	N/A	N/A	Removed prior to closure activities
	Anodamine	Anodamine Tank - Unit 4	N/A	Out of Service- Removed from Property prior to 7/16/2018								AST	250	gal.	Previously emptied and cleaned	Out of Service- Removed from site	NA	N	N/A	N/A	Removed prior to closure activities
	Sodium Hypochlorite/ Bleach	Chlorine Tank - Unit 3	Fig. 2 and 4- In front of Unit #3 Cooling Tower	Out of Service- Cleaned and closed prior to 7/16/2018								AST	2600	gal	N/A	Out of Service	N/A	N	N/A	N/A	
	Sodium Hypochlorite/ Bleach	Chlorine Tank - Unit 4	Fig. 2 and 4- In front of Unit #4 Cooling Tower	Out of Service- Cleaned and closed prior to 7/16/2018								AST	2600	gal	N/A	Out of Service	N/A	N	N/A	N/A	
	37 NALCO 3D Trasar 3DT156	37 NALCO 3D Trasar 3DT156	Unit #3 Cooling Towers- Fig. #2 and 4	None present on site - previously removed from site								Tote				None present on site	NA	N	N/A	N/A	Previously removed from site and not present during closure activities.
	37 NALCO 3D Trasar 3DT195	37 NALCO 3D Trasar 3DT195	Unit #3 Cooling Towers- Fig. #2 and 4	None present on site - previously removed from site								AST				None present on site	NA	N	NA	N/A	Previously removed from site and not present during closure activities.
	Brine	Salt Tank - Unit 3 & 4	Units #3&4- Fig. #2&7	Out of Service								AST	20000	gal		Out of Service	NA			N/A	
	Sodium Metabisulfite (30% solution)	Sodium Metabisulfite (30% solution)	Figure 7, R.O. building	None present on site								Tank inside building, Bag	N/A	N/A			NA	N	NA	N/A	Previously removed from site and not present during closure activities.
	Trasar 3D134	Unit #3 Caustic Tank- C23640	Unit 3	Out of Service- Cleaned and closed prior to 7/16/2018								Portable AST	1200	gal		Chemical used in process. Rinsate used in process	Unit #3 Caustic Tank - C-23640	N	NA	N/A	
	Trasar 3D134	Unit #4 Caustic Tank- C23642	Unit 4	Out of Service- Cleaned and closed prior to 7/16/2018								Portable AST	1200	gal		Chemical used in process. Rinsate used in process	Unit #4 Caustic Tank - C -23642	N	NA	N/A	
	Trasar 3DT199	Unit #3- Tank C28348	Unit 3	Out of Service- Cleaned and closed prior to 7/16/2018								tote	320	gal		Chemical used in process. Rinsate used in process	NA	N	NA	N/A	
	Trasar 3DT199	Unit #4- Tank C28349	Unit 4	Out of Service- Cleaned and closed prior to 7/16/2018								tote	320	gal		Chemical used in process. Rinsate used in process	NA	N	NA	N/A	
Wastes																					
	Mercury debris	Mercury debris		Universal Waste	8/17/2018	8/17/2018	B.o.L. #: 38157			7 gal.	Lighting Resources- Ontario, CA	Plastic/ Non-metallic drum, bag, plastic bottle or jug	50	lbs.	8/17/2018	N/A	N/A	N	NA	N/A	Removed from site as solid waste
	Mercury	Mercury	Figure 11, Detail A	Universal Waste	8/17/2018	8/17/2018	B.o.L. #: 38157			7 gal.	Lighting Resources- Ontario, CA	Plastic/ Non-metallic drum, bag, plastic bottle or jug	10	gal	8/17/2018	N/A	N/A	N	NA	N/A	Removed from site as solid waste
	Paint Chips and Debris (contains lead)	Paint Chips and Debris (contains lead)		NA3077, Hazardous Waste, Solid, N.O.S., (Lead base	8/17/2018	8/17/2018	Manifest #: 018328569JJK	D008	181	55 gal.		Steel Drum, Plastic/ Non-metallic drum, other	300	lbs.	8/17/2018	N/A	N/A	N	NA	N/A	Removed from site as solid waste
	Universal waste (batteries, light tubes, eletronics)	Universal waste (batteries, light tubes, eletronics)	Figure 11, Detail A	Universal Waste	8/17/2018	8/17/2018	B.o.L. #: 38157			24 gal. 12 ft.	Lighting Resources- Ontario, CA	Steel drum, plastic/ non-metallic drum, fiber drum, box	27	ft.3	8/17/2018	N/A	N/A	N	NA	N/A	24 gallons of Misc. Universal Waste and 12 ft. of fluorescent lighting
	Lead Acid Batteries	Lead Acid Batteries	Various Locations	Universal Waste	8/17/2018	8/17/2018	B.o.L. #: 38157			2 gal.	Lighting Resources- Ontario, CA	Battery			8/17/2018	N/A	N/A	N	NA	N/A	
Gases, Chemicals and Waste Streams to maintain on the Chemical Inventory																					
	EPA Protocol mixture (Oxygen, Hydrogen, Carbon monoxide, nitrogen)	EPA Protocol mixture (Oxygen, Hydrogen, Carbon monoxide, nitrogen)		Remaining on site								Cylinders	490	Ft.3	N/A	N/A	N/A	N	NA	N/A	
	Acetylene	Acetylene		Remaining on site								Cylinders	2000	ft^3	N/A	N/A	N/A	N	NA	N/A	
	Argon (Compressed)	Argon (Compressed)		Remaining on site								Cylinders	6000	ft.3	N/A	N/A	N/A	N	NA	N/A	
	Carbon Dioxide	Carbon Dioxide		Remaining on site								AST, tank inside building	8000	lbs.	N/A	N/A	N/A	N	N/A	N/A	
	Emission Gas Test (9ppm nitric oxide and Nitrogent	Emission Gas Test (9ppm nitric oxide and Nitrogent)		Remaining on site								Cylinders	490	Ft.3	N/A	N/A	N/A	N	NA	N/A	
	Emission Gas Test (56 ppm- nitric oxide and nitrogen	Emission Gas Test (56 ppm- nitric oxide and nitrogen)		Remaining on site								Cylinders	490	Ft.3	N/A	N/A	N/A	N	NA	N/A	
	Emission test gas (92 ppm Nitric Oxide and Nitrogen	Emission test gas (92 ppm Nitric Oxide and Nitrogen)		Remaining on site								Cylinders	490	ft.3	N/A	N/A	N/A	N	NA	N/A	
	Emission test gas (2% oxygen and nitrogen)	Emission test gas (2% oxygen and nitrogen)		Remaining on site								Cylinders	490	ft.3	N/A	N/A	N/A	N	NA	N/A	
	Emission test gas (5.5% oxygen and nitrogen	Emission test gas (5.5% oxygen and nitrogen)		Remaining on site								Cylinders	490	ft.3	N/A	N/A	N/A	N	NA	N/A	
	Emission test gas (11% oxygen and nitrogen	Emission test gas (11% oxygen and nitrogen		Remaining on site								Cylinders	490	ft.3	N/A	N/A	N/A	N	NA	N/A	
	Emission test gas (22% oxygen and nitrogen)	Emission test gas (22% oxygen and nitrogen)		Remaining on site								Cylinders	490	ft.3	N/A	N/A	N/A	N	NA	N/A	
	Emission test gas (22ppm nitric oxide and nitrogen	Emission test gas (22ppm nitric oxide and nitrogen)		Remaining on site								Cylinders	490	ft.3	N/A	N/A	N/A	N	NA	N/A	
	Helium	Helium		Remaining on site								Cylinders	336	ft.3	N/A	N/A	N/A		N/A		
	Oxygen	Oxygen		Remaining on site								Cylinders	5000	ft.3	N/A	N/A	N/A	N	NA	N/A	
	Propane	Propane		Remaining on site								Cylinders	120	gal	N/A	N/A	N/A	N	NA	N/A	
	Chlorine Tablets	Units #3 Chemical Storage Area	Figure 5	Remaining on site- 3 5- gallon buckets								Plastic/ Non-metallic Drum	55	lbs	NA	NA	NA	N	NA	N/A	
	Sodium Hypochlorite/ Bleach	Sodium Hypochlorite/ Bleach	Figure 4, Units 3&4	Remaining on site								AST	3000	gal				N	NA	N/A	
	Crystal Simple Green Industrial Cleaner and Degreaser	Crystal Simple Green Industrial Cleaner and Degreaser	Figure 17	Remaining on site								Plastic/ Non-metallic drum, fiber drum, box	55	gal	N/A	N/A	N/A	N	NA	N/A	
	36 NALCO Dynacool 1383 Scale Inhibitor	36 NALCO Dynacool 1383 Scale Inhibitor	Figure 5	Remaining on site								AST, Tote bin	750	gal	N/A	N/A		N	N/A	N/A	Previously removed from site and not present during closure activities.
	Lubricating oil	Unit 4 Drum Storage Area	Unit #4- Fig. 2 and 7	Oil / Grease Oil / Grease								Drum	55	gal	N/A	N/A	N/A	N/A	N/A	Y	
	Asbestos debris	Asbestos debris	Dumpster near Hazardous Waste Accumulation Area	Periodically generated - routine waste stream								steel drum, other	N/A	N/A	N/A	N/A	N/A	N	NA	N/A	
	Grit, Duct Sweep	Boiler Debris, Duct Sweep		Typically lumped with asbestos debris- Dumpster for asbestos debris to remain on sil								Steel Drum	800	lbs.	N/A	N/A	N/A	N	NA	N/A	
	Cooling Tower Sludge	Cooling Tower Sludge	Figure 4, Units 3&4	Routine waste stream								Other	48000	ft.3	N/A	N/A	N/A	N	NA	N/A	
	Used Oil	Unit 4 Drum Storage Area	Unit #4- Fig. 2 and 7	Oily Waste								Drum	55	gal	N/A	N/A	N/A	N/A	N/A	Y	
	Mercury debris	Mercury debris		Routine waste stream								Plastic/ Non-metallic drum, bag, plastic bottle or jug	50	lbs.	N/A	N/A	N/A	N	NA	N/A	
	Mercury	Mercury	Figure 11, Detail A	Routine waste stream								Plastic/ Non-metallic drum, bag, plastic bottle or jug	10	gal	N/A	N/A	N/A	N	NA	N/A	
	Paint Chips and Debris (contains lead)	Paint Chips and Debris (contains lead)		Routine waste stream								Steel Drum, Plastic/ Non-metallic drum, other	300	lbs.	N/A	N/A	N/A	N	NA	N/A	
	Universal waste (batteries, light tubes, eletronics)	Universal waste (batteries, light tubes, eletronics)	Figure 11, Detail A	Routine waste stream								Steel drum, plastic/ non-metallic drum, fiber drum, box	27	ft.3	N/A	N/A	N/A	N	NA	N/A	
	Lead Acid Batteries	Lead Acid Batteries	Various Locations	Routine waste stream								Battery			N/A	N/A	N/A	N	NA	N/A	
	Paint solids/ sludge	Paint solids/ sludge		Routine waste stream								Drum	55	lbs.	N/A	N/A	N/A	N	NA	N/A	
	Grease, Fuel Oil, Tar	Grease, Fuel Oil, Tar		Routine waste stream								Steel Drum	55	gal	N/A	N/A	N/A	N	NA	N/A	

Table 1
Summary of Hazardous Materials Handli
NRG Etiwanda Generating Station
Rancho Cucamonga, CA

				Removed Waste/Product								Tank/Container									
								Waste Codes					Capacity#								
Item No.	Chemical	Description	Location	Name	Removal Date	Off-Site Shipment Date	Manifest/Bill of Lading No.	Federal	State	Quantity	Off-Site Destination	Type	Amount	Units	Cleaning Date	Cleaning Method	CUPA Tank Closure Certified on 10/11/2018	Regulated under APSA? (Y/N)	Closed per APSA? (Y/N)	Listed in 2015 SPCC Plan? (Y/N)	Notes
	Used Oil with Solvent	Used Oil with Solvent	Hazardous waste accumulation area	Routine waste stream								N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	None present on site at time of closure; previously removed from site
	Paint and thinner miscellaneous waste	Paint and thinner miscellaneous waste	Figure 4, Unit 3	Routine waste stream								Steel drum, can	45	gal	N/A	N/A	N/A	N	NA	N/A	
	Ryd Lyme, Rid-Lime, Scale Remover	Ryd Lyme, Rid-Lime, Scale Remover	Figure 16	Routine waste stream								Plastic/ Non-metallic drum	55	gal	N/A	N/A	N/A	N	NA	N/A	
	Spend Sandblast Grit containing lead	Spend Sandblast Grit containing lead	Figures 4, Unit 3 Warehouse, 18	Routine waste stream								Steel drum, tote bin	55	gal	N/A	N/A	N/A	N	NA	N/A	
	Treated Wood Waste (Cooling Tower Wood)	Treated Wood Waste	Figure 4, Unit 3	Routine waste stream								Other	120000	lbs.	N/A	N/A	N/A	N	NA	N/A	

* Page reference from 5/13/2016 Hazardous Materials and Wastes Inventory Matrix Repo

Notes:
1. The table above includes all items listed in the Hazardous Materials and Waste Inventory Matrix Report (NRG, 5/13/2016
2. The table above includes all items listed in Table 2-1 of Spill Prevention, Control and Countermeasure (SPCC) Plan (Sage Environmental Consulting, October 201
= Capacities are based on information presented in Table 2-1 of the SPCC Plan (Sage Environmental Consulting, October 2012); and on information included in Hazardous Materials Inventory Summary Form (NRG, December 2012).

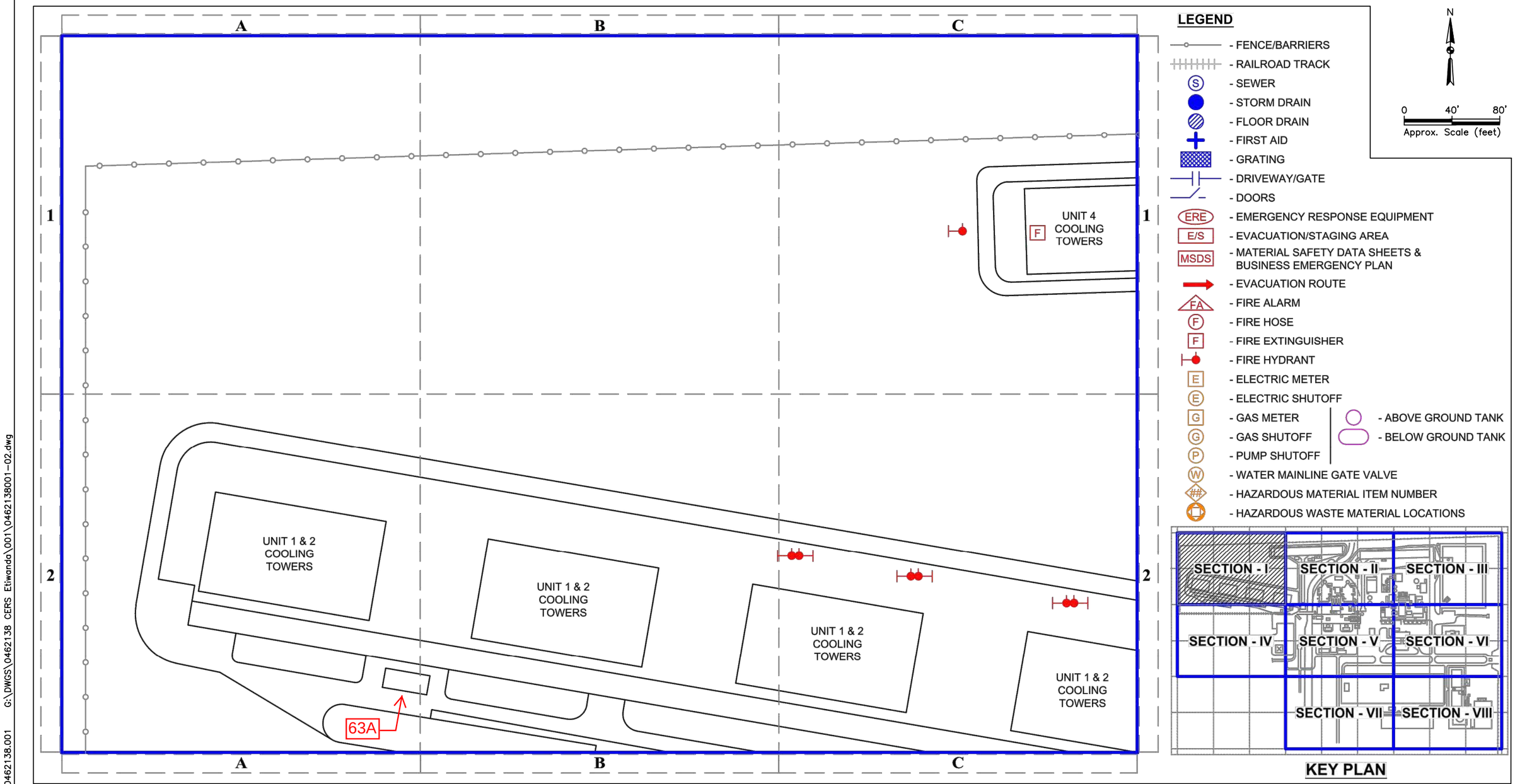


J. Estrada 5/31/2018 0462138.001 G:\DWGS\0462138 CERS Etiwanda\001\0462138001-02.dwg

Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Figure 2
Site Layout Map
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

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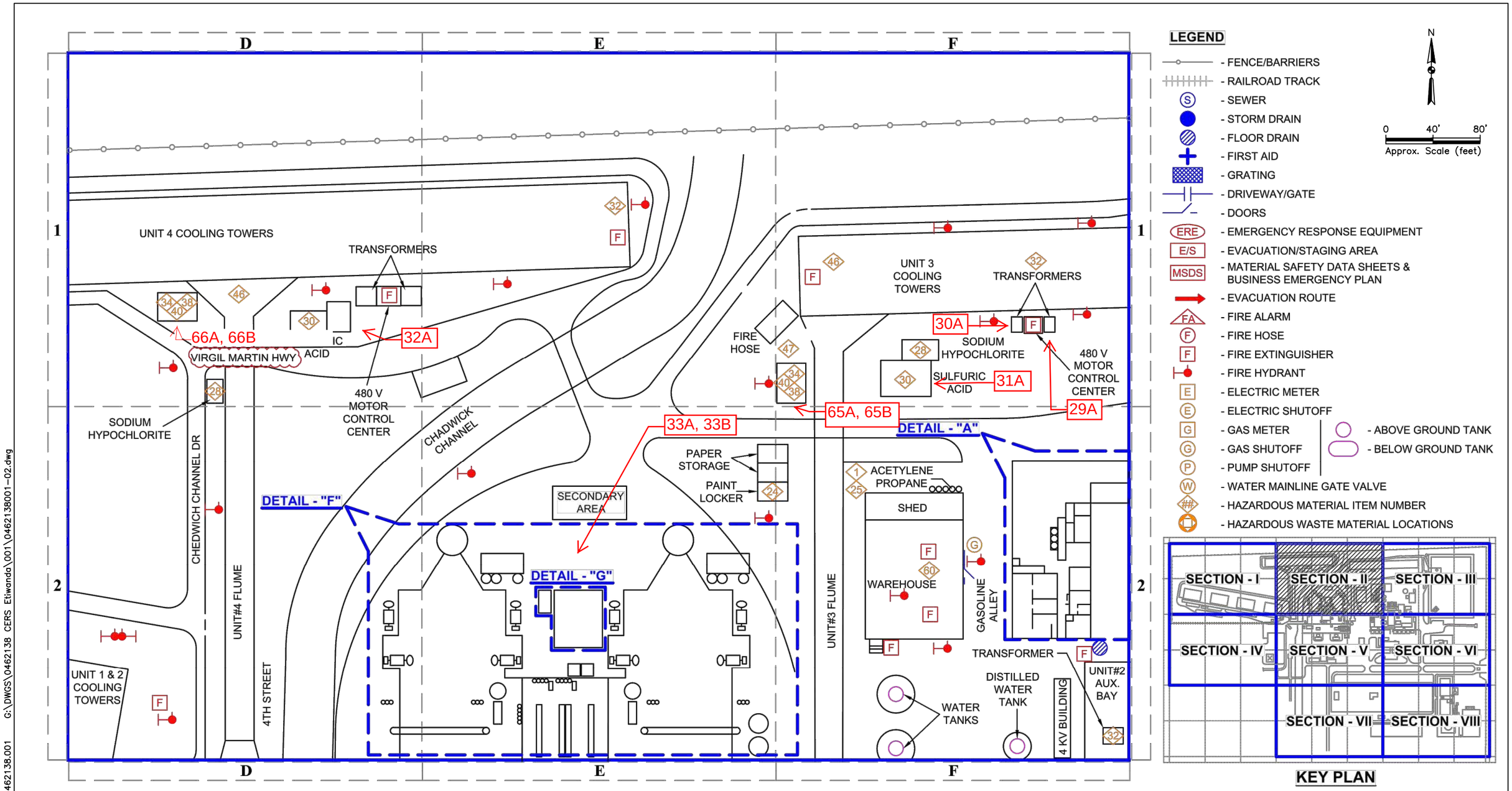
J. Estrada 5/31/2018 0462138.001 G:\DWGS\0462138 CERS Etiwanda\001\0462138001-02.dwg

Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Figure 3

Site Detail Map - Section I
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

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LEGEND

- FENCE/BARRIERS
- RAILROAD TRACK
- SEWER
- STORM DRAIN
- FLOOR DRAIN
- FIRST AID
- GRATING
- DRIVEWAY/GATE
- DOORS
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- F - FIRE EXTINGUISHER
- FIRE HYDRANT
- E - ELECTRIC METER
- E - ELECTRIC SHUTOFF
- G - GAS METER
- G - GAS SHUTOFF
- P - PUMP SHUTOFF
- W - WATER MAINLINE GATE VALVE
- ## - HAZARDOUS MATERIAL ITEM NUMBER
- HAZARDOUS WASTE MATERIAL LOCATIONS
- ABOVE GROUND TANK
- BELOW GROUND TANK

N

0 40' 80'
Approx. Scale (feet)

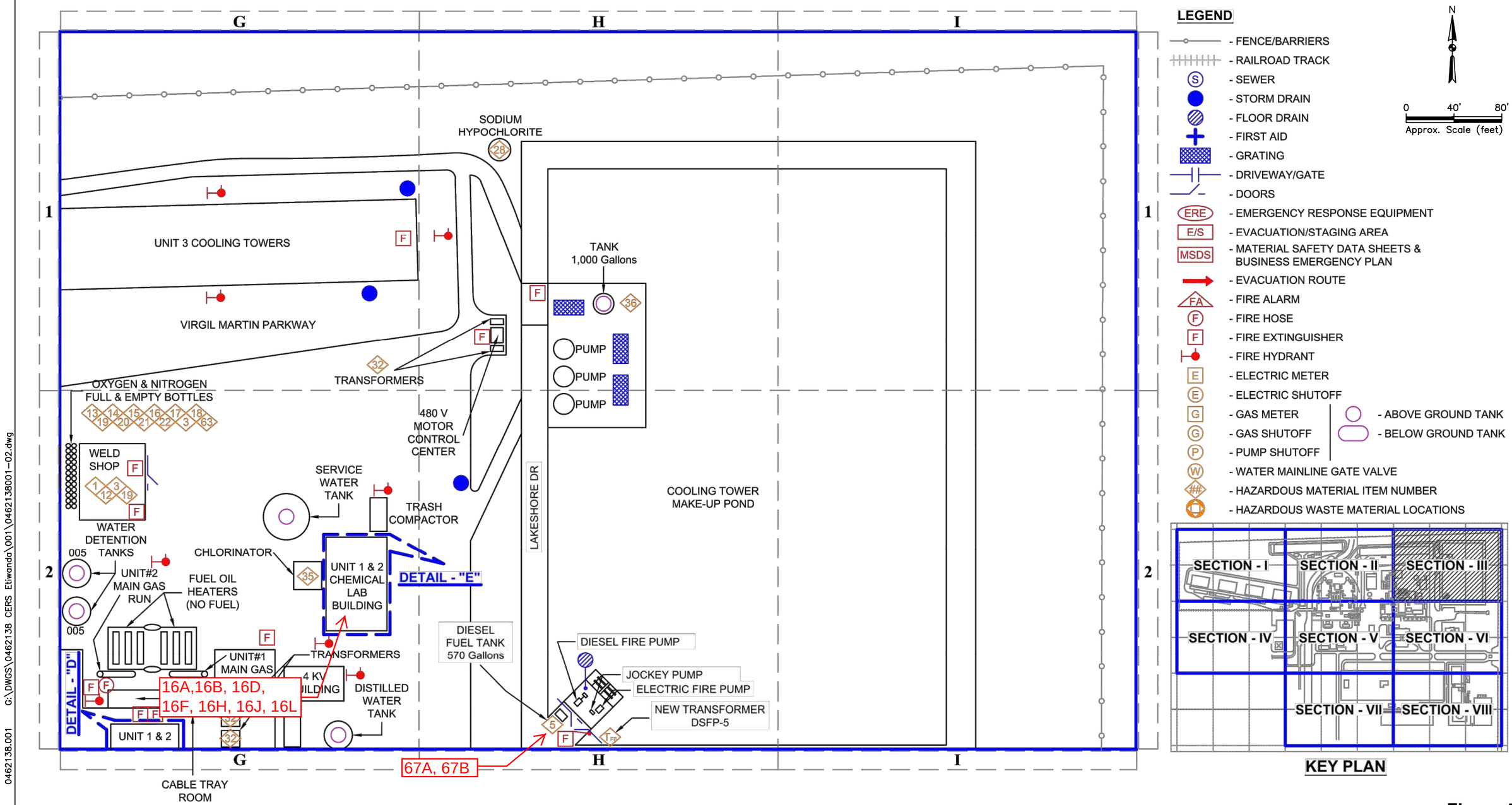
KEY PLAN

J. Estrada 5/31/2018 0462138.001 G:\DWGS\0462138 CERS Etiwanda\001\0462138001-02.dwg

Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Figure 4
Site Detail Map - Section II
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

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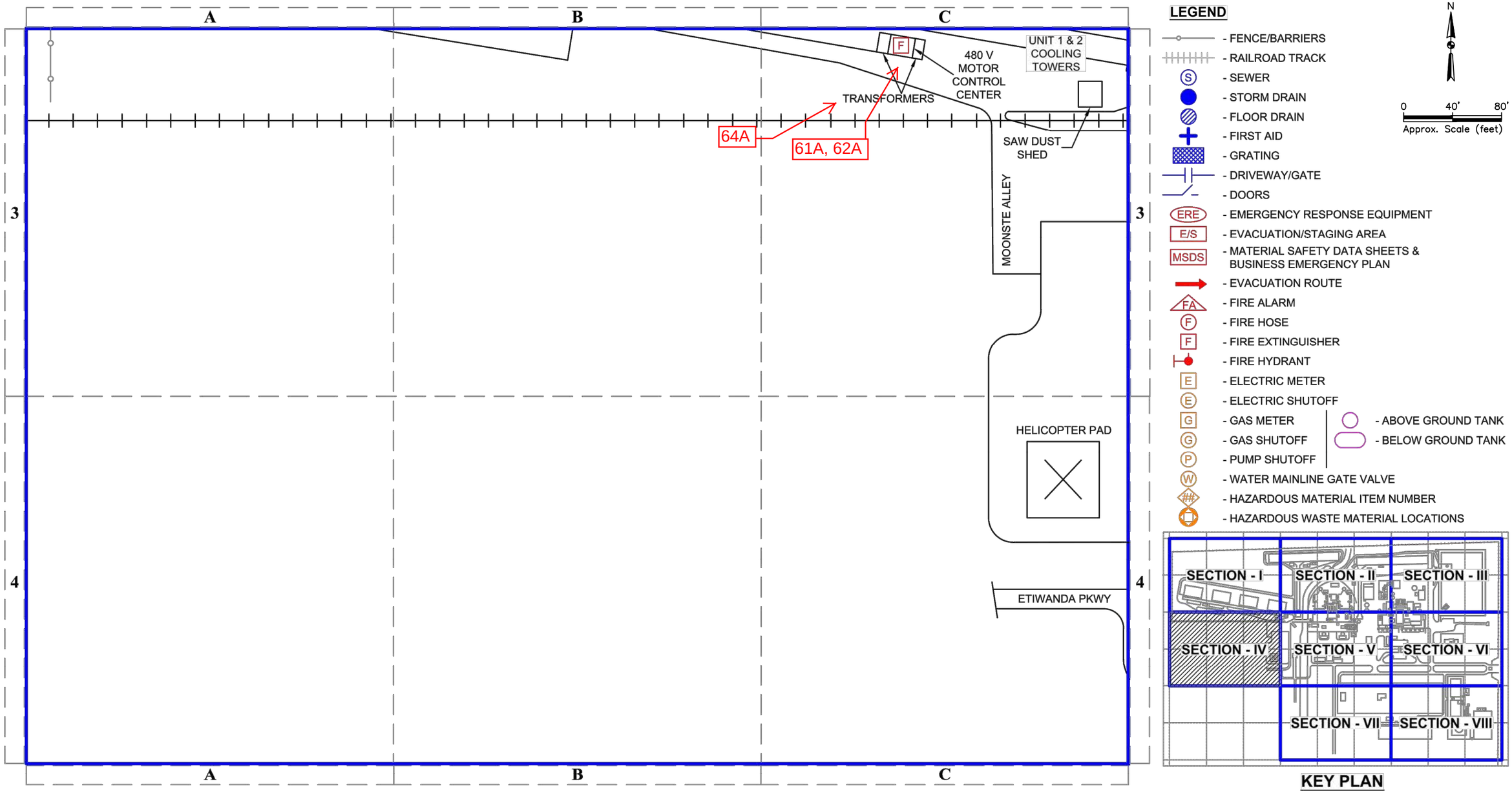


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Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Figure 5
Site Detail Map - Section III
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

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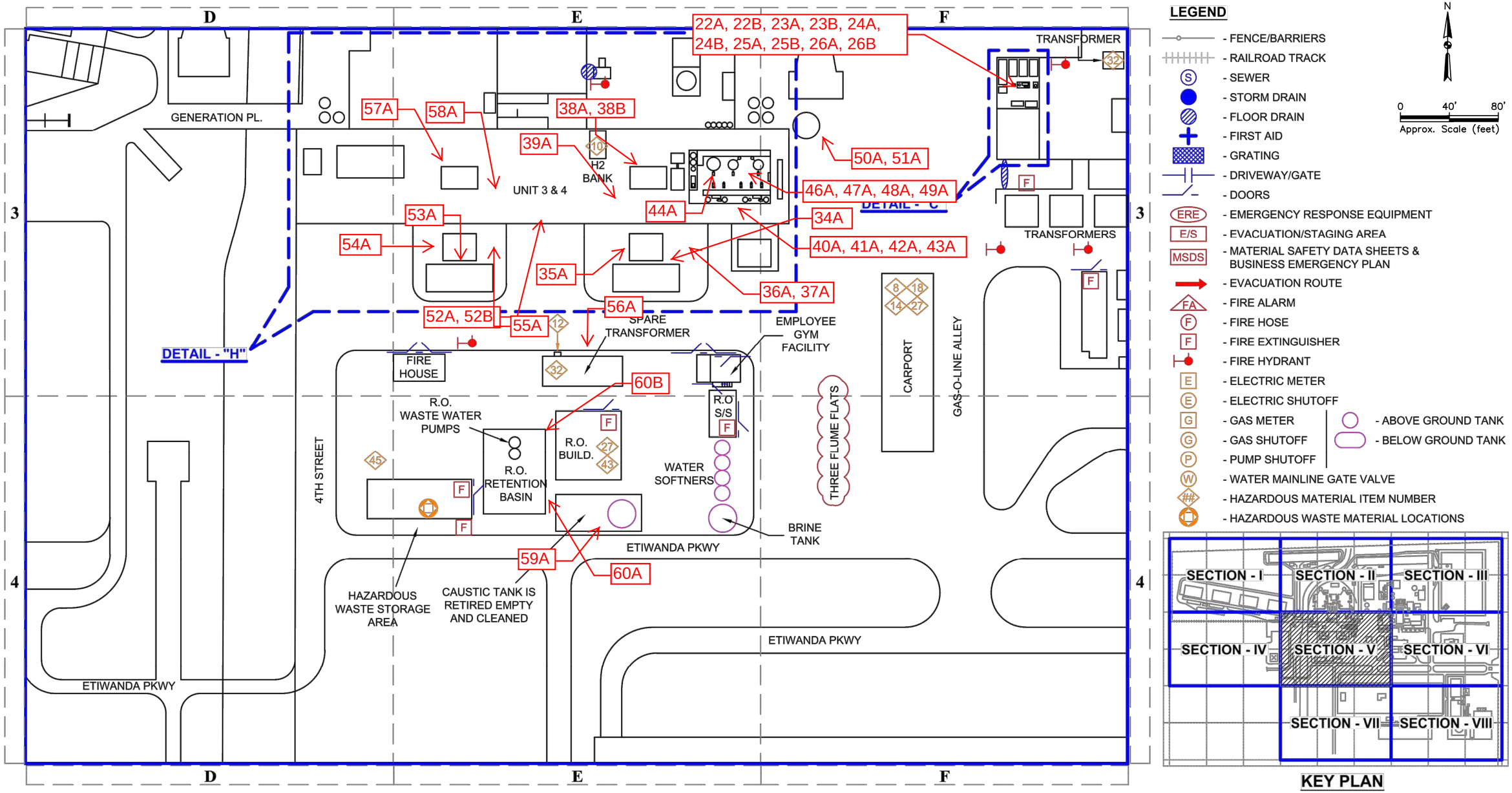
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Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Figure 6

Site Detail Map - Section IV
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

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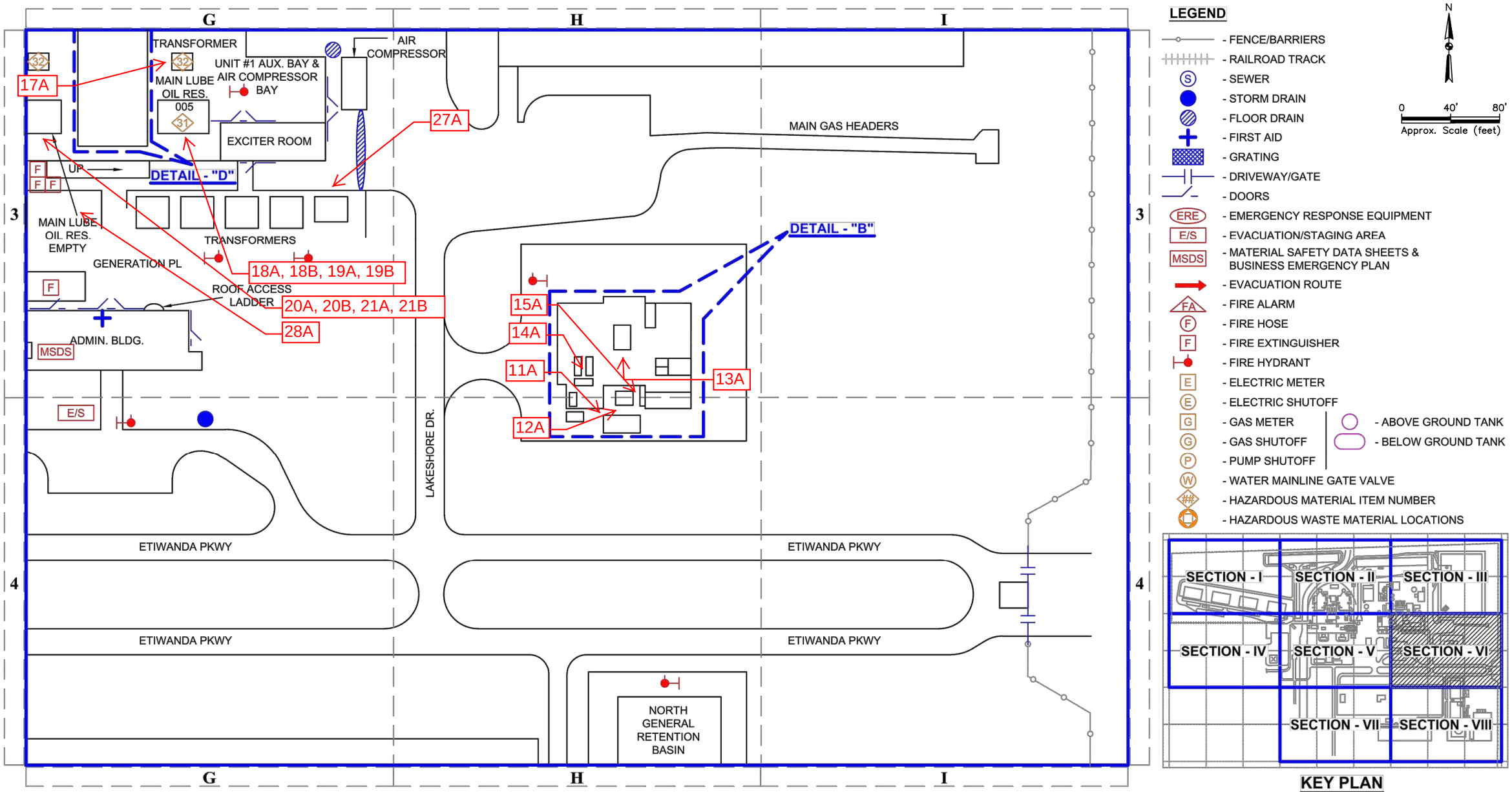


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Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Figure 7
Site Detail Map - Section V
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

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LEGEND

- FENCE/BARRIERS
- RAILROAD TRACK
- SEWER
- STORM DRAIN
- FLOOR DRAIN
- FIRST AID
- GRATING
- DRIVEWAY/GATE
- DOORS
- ERE - EMERGENCY RESPONSE EQUIPMENT
- E/S - EVACUATION/STAGING AREA
- MSDS - MATERIAL SAFETY DATA SHEETS & BUSINESS EMERGENCY PLAN
- EVACUATION ROUTE
- FA - FIRE ALARM
- F - FIRE HOSE
- F - FIRE EXTINGUISHER
- FIRE HYDRANT
- E - ELECTRIC METER
- E - ELECTRIC SHUTOFF
- G - GAS METER
- G - GAS SHUTOFF
- P - PUMP SHUTOFF
- ABOVE GROUND TANK
- BELOW GROUND TANK
- W - WATER MAINLINE GATE VALVE
- ## - HAZARDOUS MATERIAL ITEM NUMBER
- HAZARDOUS WASTE MATERIAL LOCATIONS

N

0 40' 80'
Approx. Scale (feet)

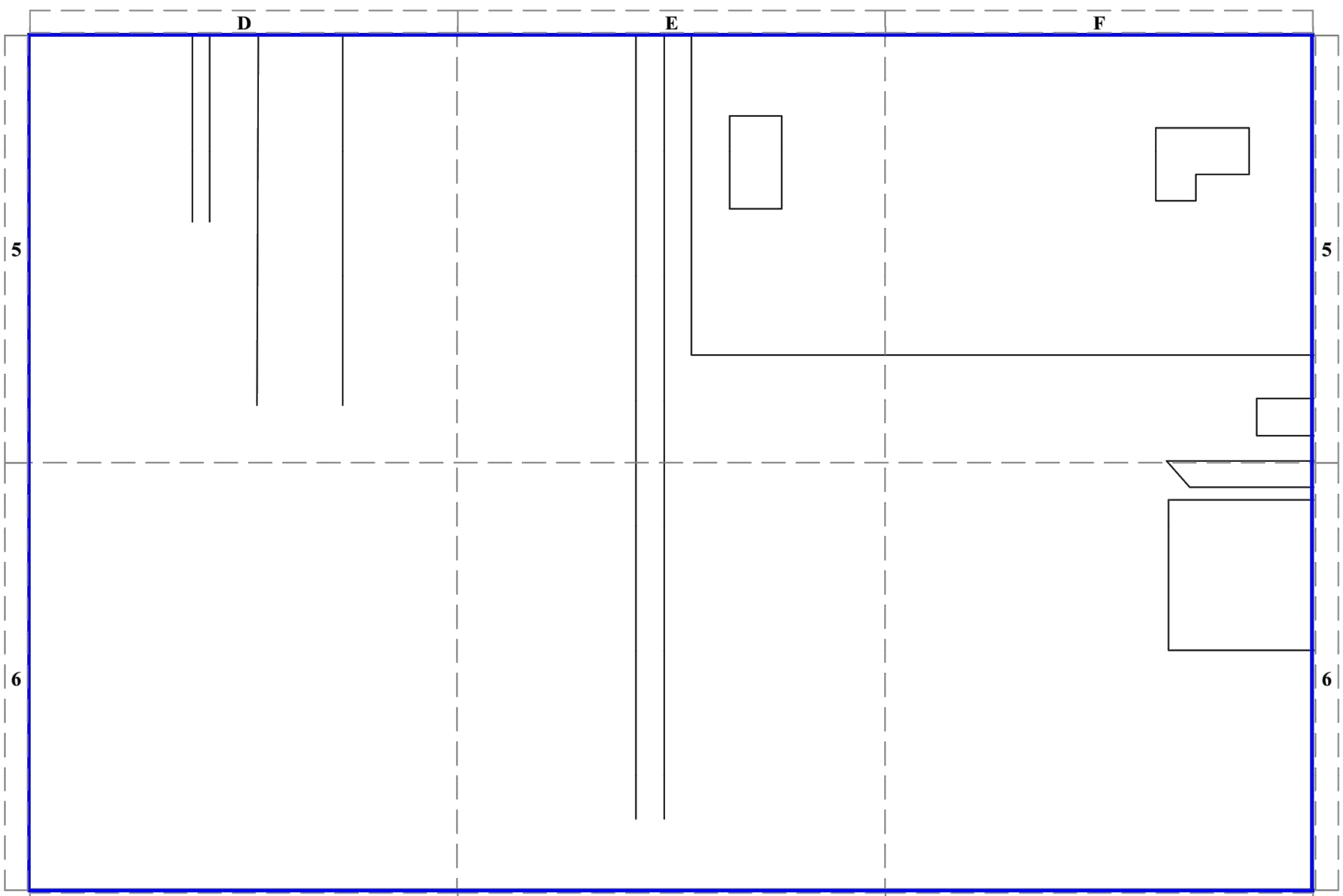
KEY PLAN

J. Estrada 5/31/2018 0462138.001 G:\DWGS\0462138 CERS Etiwanda\001\0462138001-02.dwg

Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Figure 8
Site Detail Map - Section VI
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

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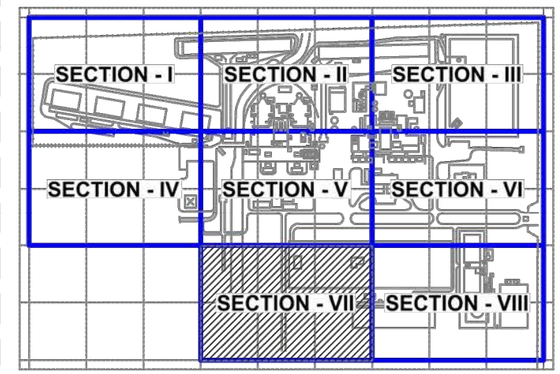
LEGEND

- FENCE/BARRIERS
- RAILROAD TRACK
- (S) - SEWER
- STORM DRAIN
- FLOOR DRAIN
- FIRST AID
- GRATING
- DRIVEWAY/GATE
- DOORS
- (ERE) - EMERGENCY RESPONSE EQUIPMENT
- [E/S] - EVACUATION/STAGING AREA
- [MSDS] - MATERIAL SAFETY DATA SHEETS & BUSINESS EMERGENCY PLAN
- EVACUATION ROUTE
- (FA) - FIRE ALARM
- (F) - FIRE HOSE
- [F] - FIRE EXTINGUISHER
- FIRE HYDRANT
- [E] - ELECTRIC METER
- (E) - ELECTRIC SHUTOFF
- [G] - GAS METER
- (G) - GAS SHUTOFF
- (P) - PUMP SHUTOFF
- (W) - WATER MAINLINE GATE VALVE
- (#) - HAZARDOUS MATERIAL ITEM NUMBER
- HAZARDOUS WASTE MATERIAL LOCATIONS
- ABOVE GROUND TANK
- BELOW GROUND TANK

N

0 40' 80'

Approx. Scale (feet)



KEY PLAN

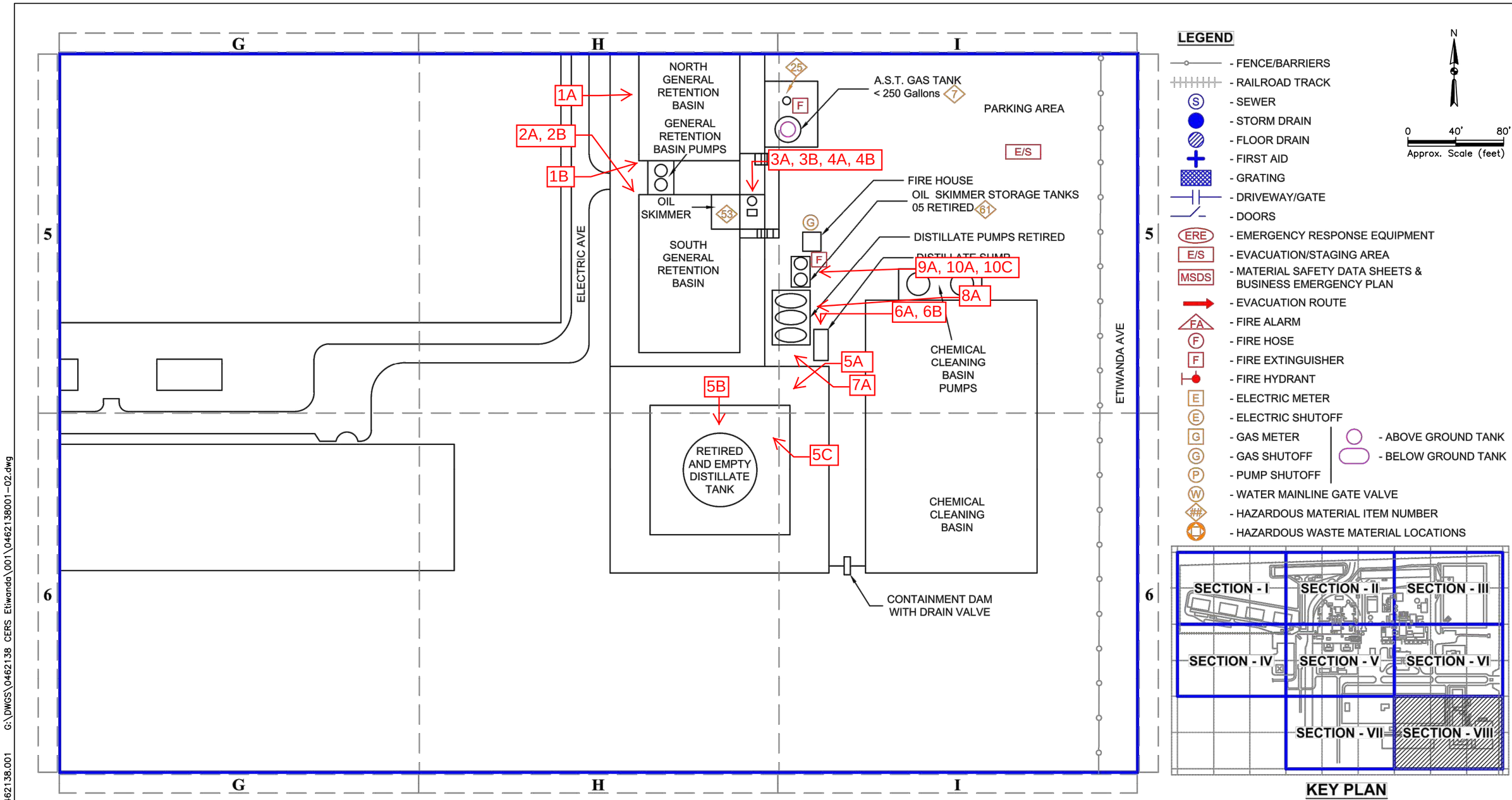
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Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Figure 9

Site Detail Map - Section VII
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

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LEGEND

- FENCE/BARRIERS
- RAILROAD TRACK
- SEWER
- STORM DRAIN
- FLOOR DRAIN
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- ABOVE GROUND TANK
- BELOW GROUND TANK

N

0 40' 80'
Approx. Scale (feet)

KEY PLAN

Figure 10

Site Detail Map - Section VIII
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

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Appendix D

No Further Action Letters

1853

County of San Bernardino

KENNETH C. TOPPING
Deputy Administrator
Development Services

RICHARD L. ROBERTS. R.S., M.P.H.
Director

Also serving the cities of:

Adelanto	*Needles*
Barstow	*Ontario*
Big Bear Lake	*Rancho Cucamonga*
Chino	*Redlands*
Colton	*Rialto*
Fontana	*San Bernardino*
Grand Terrace	*Upland*
Loma Linda	*Victorville*
Montclair	

ENVIRONMENTAL PUBLIC WORKS AGENCY

ENVIRONMENTAL HEALTH SERVICES

☒ 385 North Arrowhead Avenue
San Bernardino, CA 92415-0160
(714) 383-1617

☐ 320 East "D" Street
Ontario, CA 91764
(714) 988-1324

☐ 15505 Civic Center Drive
Victorville, CA 92392
(619) 243-8141

☒ Haz Waste & Toxics
(714) 383-7170

PLEASE REPLY TO ADDRESS CHECKED

December 27, 1985

Southern California Edison Company
P.O. Box 800
2244 Walnut Grove Avenue
Rosemead, CA 91770

ATTN: WENDELL SUYAMA

SUBJECT: SITE INVESTIGATION AT THE ETIWANDA GENERATING STATION, 8996 ETIWANDA AVENUE, ETIWANDA, CA

After reviewing the investigation and remedial action reports concerning soil contamination in the vicinity of the underground storage tanks at the Etiwanda Generating Station, this Department concurs that the levels of contamination found do not present an environmental or public health threat.

It was indicated in the report that you intend to close the kerosene and naptha tanks and replace the unleaded gasoline tanks. Please find enclosed copies of the applications, and standards the County of San Bernardino requires when performing these modifications.

If you have any questions, please call at (714) 383-7170 or (714) 383-1856.

RICHARD L. ROBERTS, R.S., MPH
Director

Ronald A. Ripley

RONALD A. RIPLEY, R.S.
Environmental Specialist III

RLR:RAR:vb

Enclosures

STATE OF CALIFORNIA
GEORGE DEUKMEJIAN, Governor

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION
6809 INDIANA AVENUE, SUITE 200
'ERSIDE, CALIFORNIA 92506
NE: (714) 782-4130

RECEIVED
FEB 21 1987
GERAGHTY & MILLER

July 22, 1987

Mr. Edward J. Faeder, Ph.D.
Manager of Environmental Operations
Southern California Edison Company
P.O. Box 800
2244 Walnut Grove Avenue
Rosemead, CA 91770

Attention: Mr. Bob Goodson

REMEDIAL ACTION AT ETIWANDA GENERATING STATION

Dear Mr. Faeder:

Board staff has reviewed your Site Characterization study for the Etiwanda Generating Station (EGS). The study addressed the chemical composition and extent of contamination of the soil in the drainage channel and spreading basin on EGS property. Based on the site characterization you submitted, water quality has not been deleteriously affected or threatened at the Etiwanda Generating Station. Therefore, further remedial action at the site will not be required.

If you should have any questions, please contact either me or Myron Eng of our Industrial Surveillance Section.

Sincerely,

Gary M. Litton, Chief
Industrial Surveillance Section

cc: Steve Van Stockum, San Bernardino County Environmental Health Services

ME:djb

California Regional Water Quality Control Board
Santa Ana Region

Peter M. Rooney
Secretary for Environmental Protection

Internet Address: http://www.swrcb.ca.gov
3737 Main Street, Suite 500, Riverside, California 92501-3339
Phone (909) 782-4130 • FAX (909) 781-6288

Pete Wilson
Governor

December 9, 1998

Danielle Chupa
Southern California Edison
2244 Walnut Grove Ave.
P.O. Box 800
Rosemead, CA 91770

PETROLEUM HYDROCARBON (PHC)-IMPACTED SOIL REMEDIATION AT SOUTHERN CALIFORNIA EDISON (SCE), ETIWANDA GENERATING STATION

Mountain Vista Power

Dear Ms. Chupa:

We have reviewed your August 21, 1998 final report on the PHC-impacted soil remedial activities at SCE's Etiwanda Generating Station. This report indicates that the soil remedial activities were performed at this site in accordance with a previously approved workplan.

After careful review of your report and the results of the confirmation sampling, we believe that no further action will be necessary at this site. Please be advised that this letter does not relieve you of your responsibility to comply with rules and regulations set forth by other agencies.

If you have any questions, please contact me at (909) 320-2024.

Sincerely,

Ray Akhtarshad

Ray Akhtarshad
Associate Water Resource Control Engineer

RA\C:\DATA\PETRO\SCE\ETIW-2.DOC

Appendix E

Closure Certificate Acknowledgment

Department of Toxic Substances Control

Matt Rodriquez
Secretary for
Environmental Protection

Deborah O. Raphael, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr.
Governor

December 29, 2011

Mr. Randal Weidner
Project Manager
Southern California Edison
2244 Walnut Grove Avenue
Rosemead, California 91770

CLOSURE CERTIFICATION ACKNOWLEDGMENT: SOUTHERN CALIFORNIA EDISON, ETIWANDA GENERATING STATION RETENTION BASIN SITE, 8996 ETIWANDA AVENUE, RANCHO CUCAMONGA, CALIFORNIA 91739, SAN BERNARDINO COUNTY, EPA ID NUMBER CAD 079 548 574

Dear Mr. Weidner:

On December 21, 2011 the Department of Toxic Substances Control (DTSC) received a report titled "Final Closure Demonstration Report Etiwanda Generating Station Retention Basin Site, San Bernardino County, California" (Report) dated December 20, 2011 for the Southern California Edison Etiwanda Generating Station, 8996 Etiwanda Avenue, Rancho Cucamonga, CA 91739. The Report was prepared by Southern California Edison's consultant, Jamison and Associates, Inc., and included a Closure Demonstration Report Certification signed by both the land owner and an independent California registered Professional Engineer, certifying that all the hazardous waste management units at the facility were closed in accordance with the Final Judgment Pursuant To Stipulation No. BC121219, filed in The Superior Court of the State of California for the County Of Los Angeles (Order). In addition, the Report provided the results of additional site investigation and groundwater investigation at the site. This Report shows that the site has been investigated. All Hazardous Waste Management Units at this facility have been investigated, remediated and/or demolished and closed.

These are the hazardous waste management units that were closed:

North Wastewater Retention Basin (North Basin)
South Wastewater Retention Basin (South Basin)
Boiler Chemical Cleaning Basin (BCCB)
Units 1 and 2 Fireside Wash Drain System
Units 3 and 4 Fireside Wash Drain System
Units 3 and 4 Fireside Wash System Sediment Trap
Units 1 and 2 Boiler Acid Wash Drain System

Printed on Recycled Paper

Units 3 and 4 Boiler Acid Wash Drain System

Groundwater was found not to be contaminated. Groundwater occurs at about 420-feet below ground surface (bgs), and is not used as a drinking water source on-site. The site has been remediated and is approved for unrestricted use.

This letter is to inform you that DTSC now considers the above referenced hazardous waste storage and treatment facility as being officially closed on December 20, 2011. This letter also confirms that the site has been investigated.

This acknowledgment is based on the assumption that the information submitted in the certification, as well as any other information provided to DTSC, and used as a basis for this decision is true and accurate. The owner/operator must inform DTSC of any deviations from or changes in the information provided, which would affect the closure certification acknowledgement.

Should you have any questions, please contact me at (818) 717-6602.

Sincerely,

Mr. Steve Rounds, P.E.
Hazardous Substances Engineer
Brownfields and Environmental Remediation Program

cc: GenOn Energy-Etiwanda
Attn: Charles Linder
8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739

Ms. Julie Babcock
GenOn Energy
696 West 10th Street
Pittsburg, CA 94565

Dennis Jamison
Jamison & Associates, Inc.
PO Box 34802
Reno, NV 89533

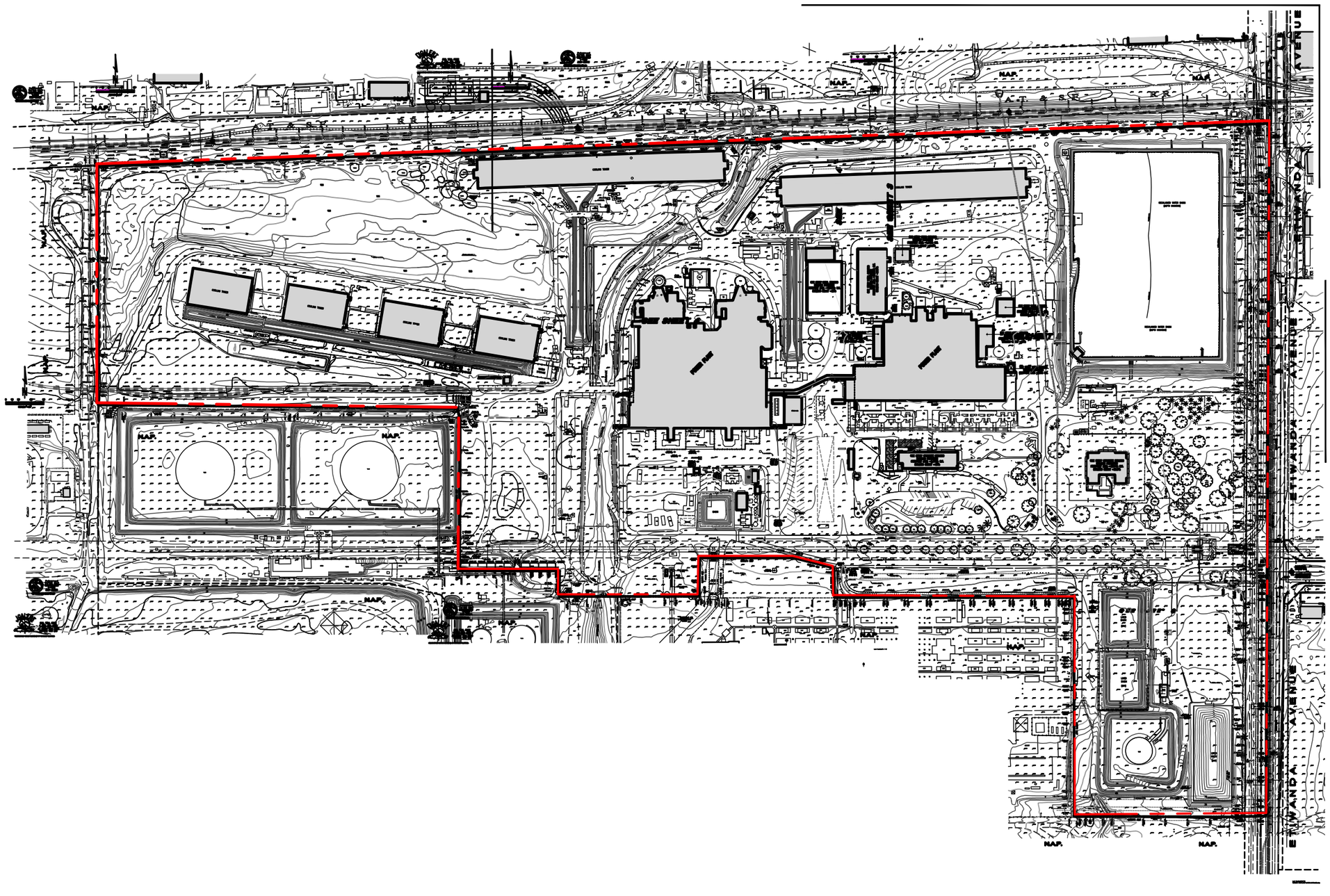
Ms. Maya Akula
Public Participation Specialist
Department of Toxic Substances Control
9211 Oakdale Avenue
Chatsworth, California 91311

Mr. Allan Plaza, P.E.
Unit Chief
Brownfields & Environmental Remediation Program
Department of Toxic Substances Control
9211 Oakdale Avenue
Chatsworth, California 91311

Christine Bucklin, P.G. – DTSC Cypress (via electronic mail)
Greg Neal, P.G. – DTSC Cypress (via electronic mail)
Shukla Roy-Semmen, PhD – DTSC Cypress (via electronic mail)

Appendix F

Figures and Tables from 2019 Ardent Investigation



LEGEND

Approximate Site Boundary

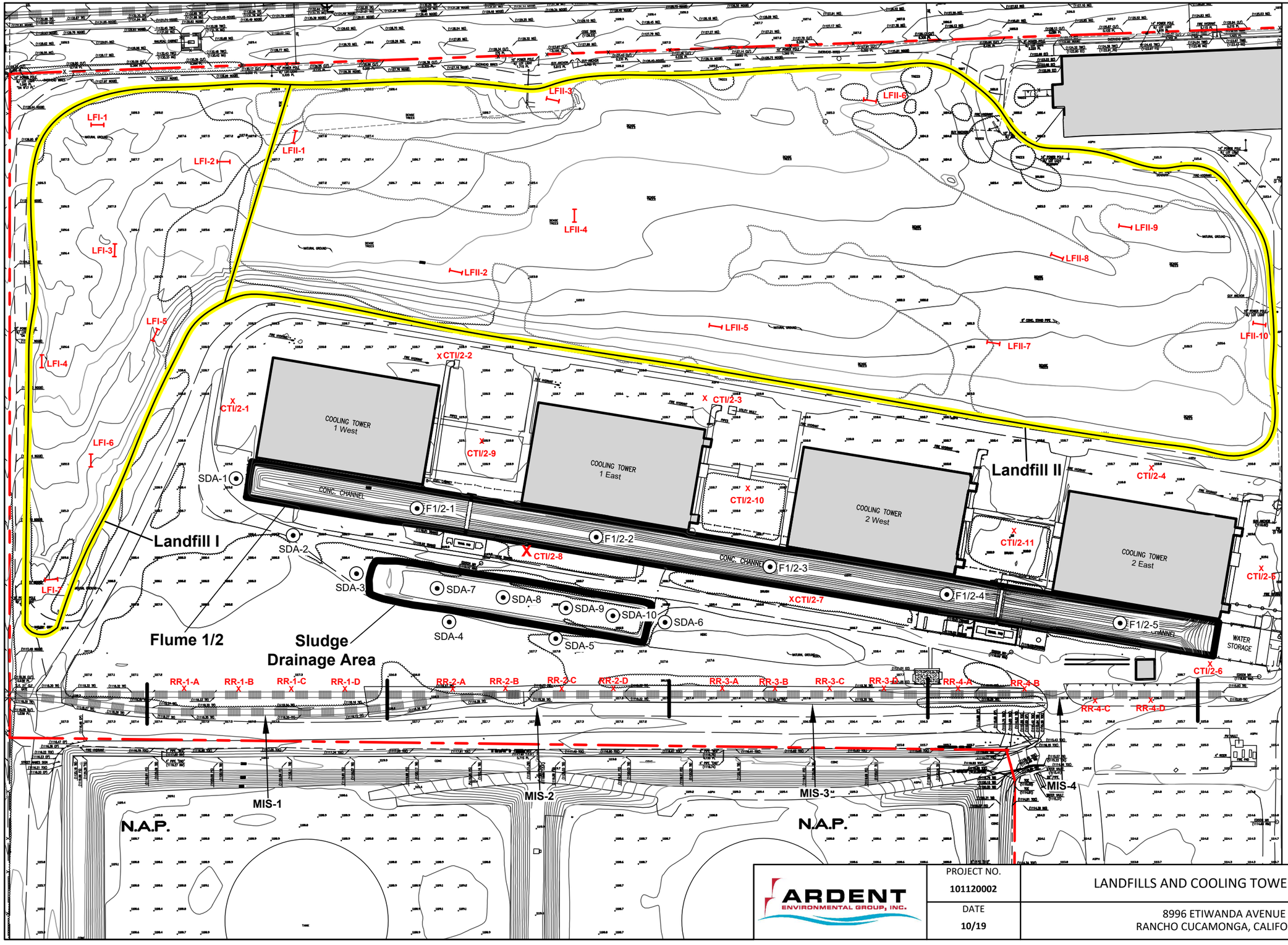
N

Approximate Scale, Feet

0 125 250 500

Dimensions, Directions, and Locations are Approximate

ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. **101120002**	SITE PLAN	FIGURE **1**
	DATE **10/19**	8996 ETIWANDA AVENUE RANCHO CUCAMONGA, CALIFORNIA	



LEGEND

- Approximate Site Boundary
- LFI-1 — Large Test Pit
- RR-1-A — Small Test Pit
- F1/2-1 — Soil Boring Location and Designation
- MIS-1 — Multi-Increment Sample Area

N

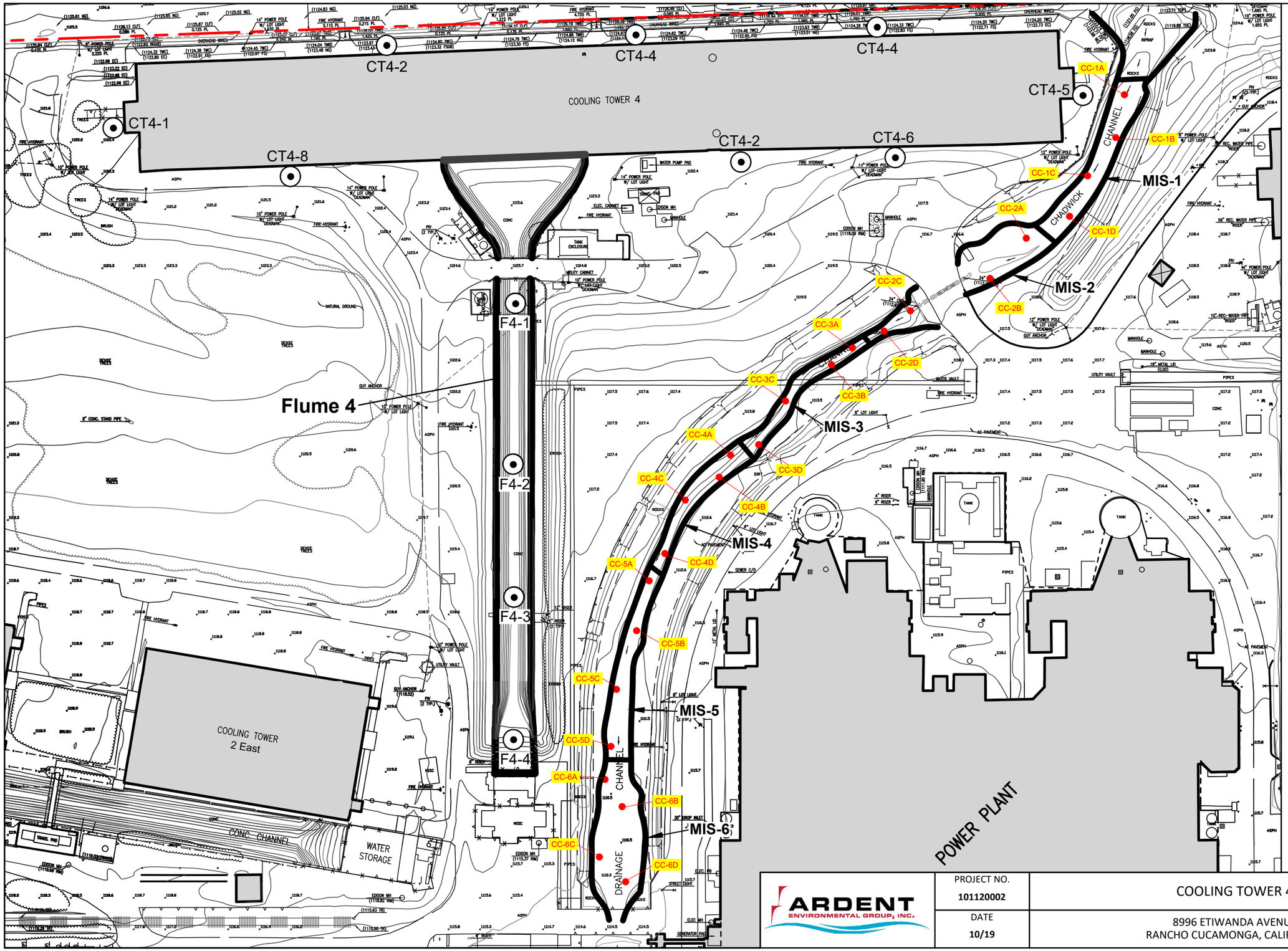
Approximate Scale, Feet

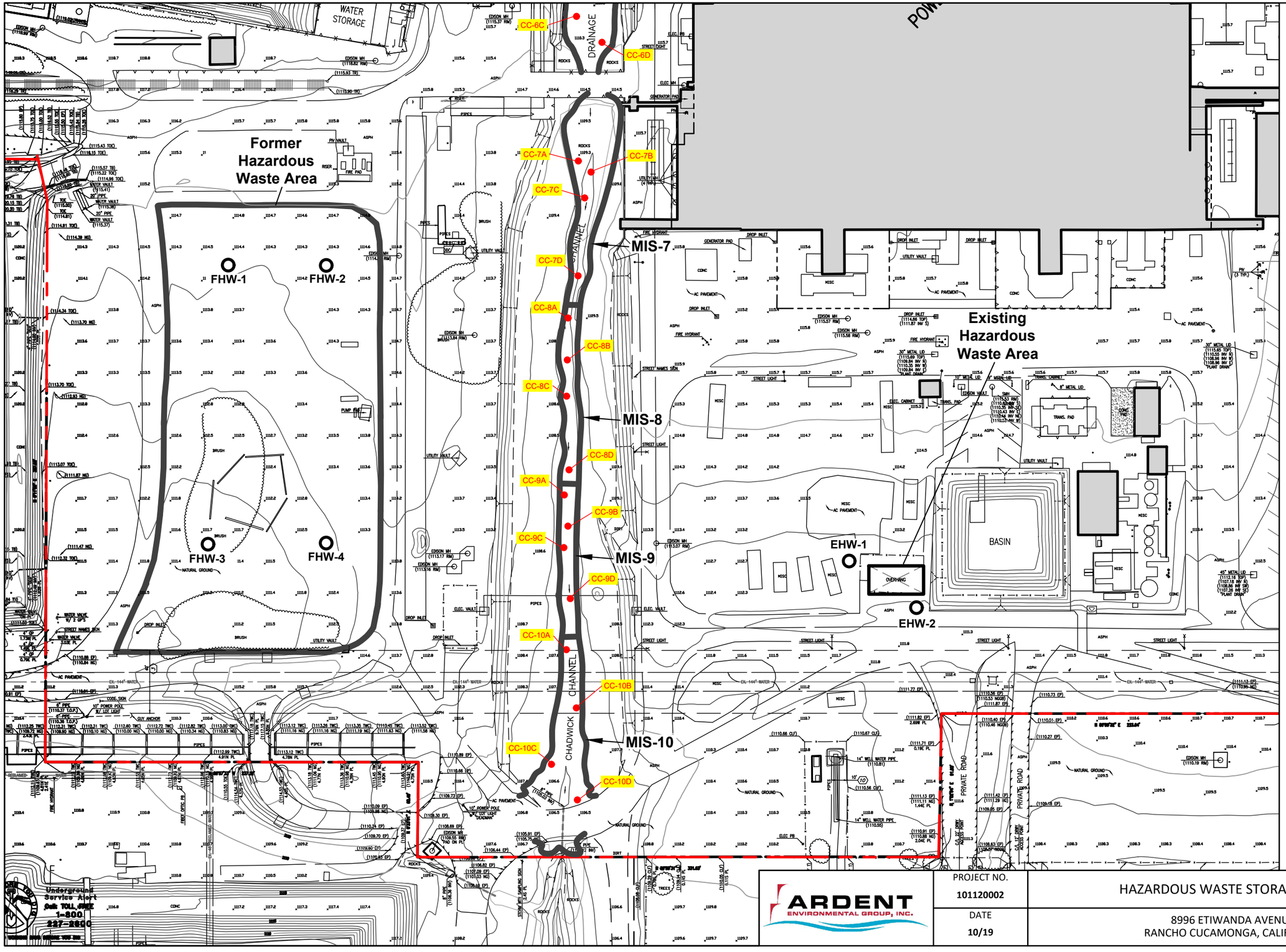
0 40 80 160

Dimensions, Directions, and Locations are Approximate

ARDENT ENVIRONMENTAL GROUP, INC.

PROJECT NO.	LANDFILLS AND COOLING TOWERS 1 AND 2	FIGURE
101120002		2
DATE 10/19	8996 ETIWANDA AVENUE RANCHO CUCAMONGA, CALIFORNIA	


CT4-1
CT4-2
CT4-4
CT4-4
CT4-5
CT4-6
CT4-2
CT4-8
COOLING TOWER 4
F4-1
F4-2
F4-3
F4-4
Flume 4
CC-1A
CC-1B
CC-1C
CC-1D
CC-2A
CC-2B
CC-2C
CC-2D
CC-3A
CC-3B
CC-3C
CC-3D
CC-4A
CC-4B
CC-4C
CC-4D
CC-5A
CC-5B
CC-5C
CC-5D
CC-6A
CC-6B
CC-6C
CC-6D
MIS-1
MIS-2
MIS-3
MIS-4
MIS-5
MIS-6
CHANNEL
CHADWICK
CHANNEL
DRAINAGE
COOLING TOWER 2 East
CONC. CHANNEL
WATER STORAGE
POWER PLANT
TANK
TANK
TANK



LEGEND

- Approximate Site Boundary
- FWH-1 — Soil Gas Sample Location and Designation
- CC-7A — Surface Sample Location and Designation
- MIS-7 — Multi-Increment Sample Area

N

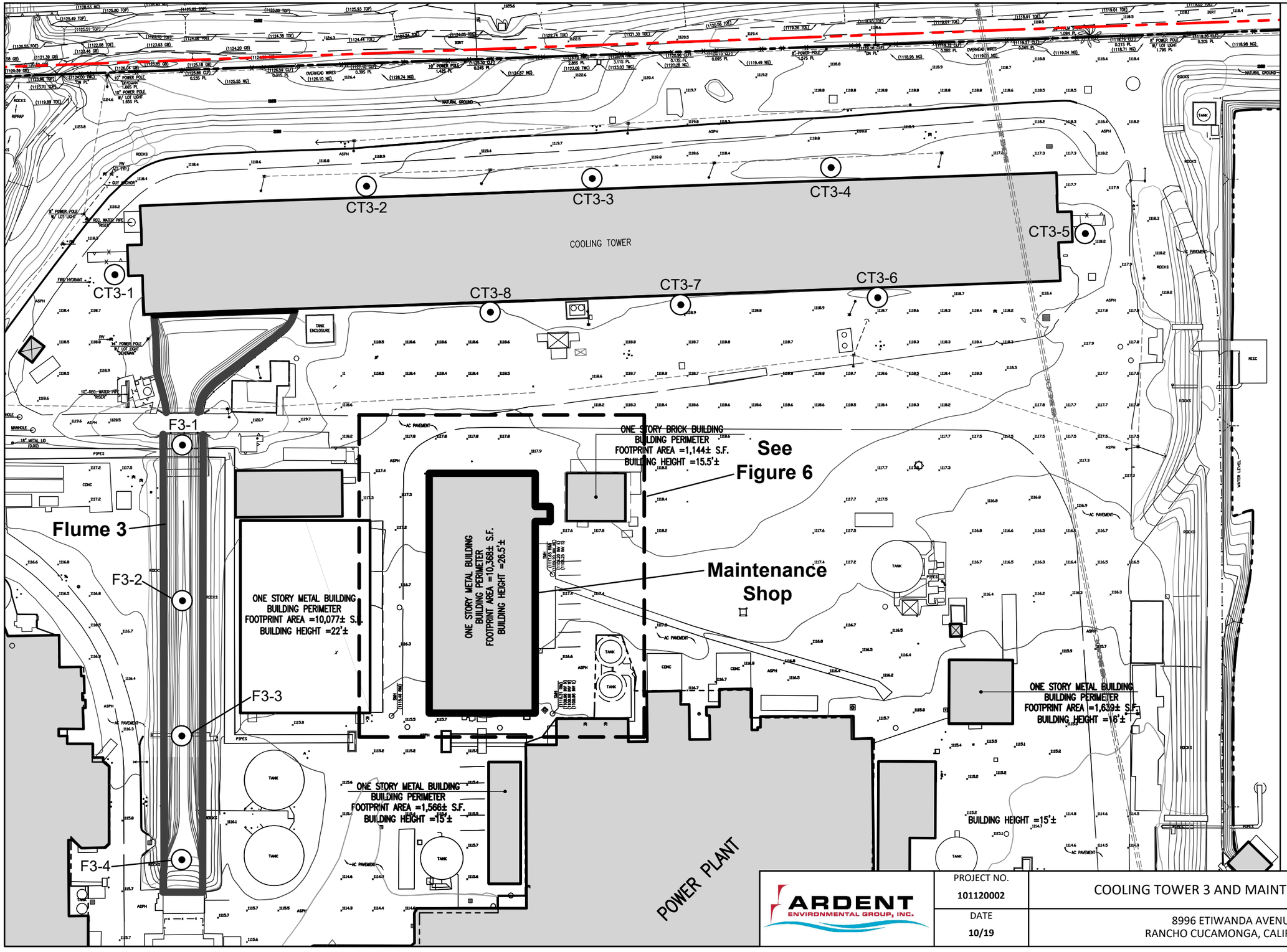
Approximate Scale, Feet

0 40 80 160

Dimensions, Directions, and Locations are Approximate

ARDENT ENVIRONMENTAL GROUP, INC.

PROJECT NO.	HAZARDOUS WASTE STORAGE AREAS	FIGURE
101120002		4
DATE 10/19	8996 ETIWANDA AVENUE RANCHO CUCAMONGA, CALIFORNIA	



LEGEND

- Approximate Site Boundary
- CT3-1 — Soil Boring Location and Designation

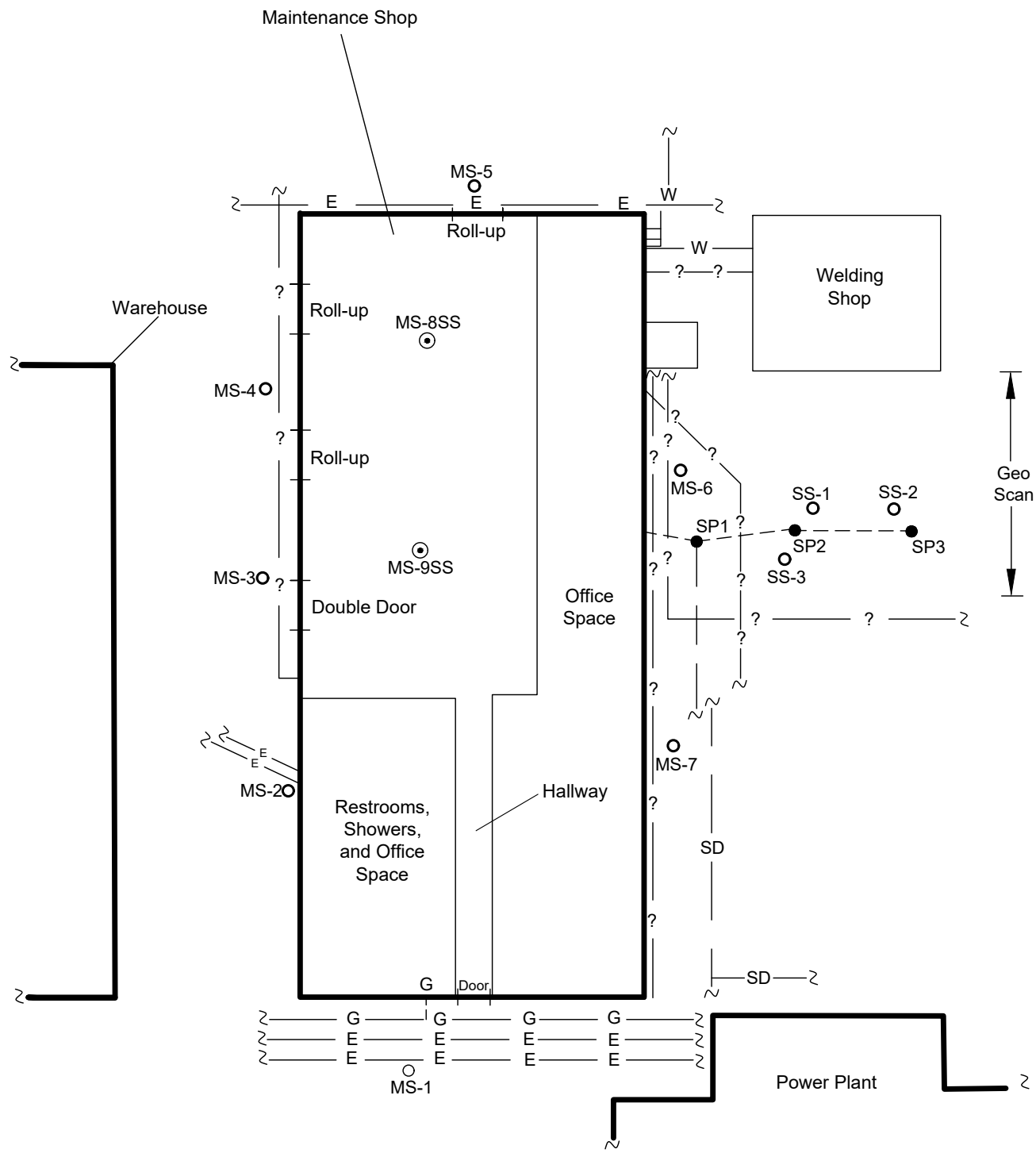
N

Approximate Scale, Feet

0 30 60 120

Dimensions, Directions, and Locations are Approximate

ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. 101120002	COOLING TOWER 3 AND MAINTENANCE SHOP	FIGURE 5
	DATE 10/19	8996 ETIWANDA AVENUE RANCHO CUCAMONGA, CALIFORNIA	



LEGEND

- SS-1 — Soil Gas Monitoring Location and Designation
- SP1 — Septic Pit
- MS-855 — Sub-slab Soil Gas Sample Location and Designation
- —G— Gas Line
- —E— Electric Line
- —W— Water Line
- —SD— Storm Drain
- —?— Unknown Subsurface Line

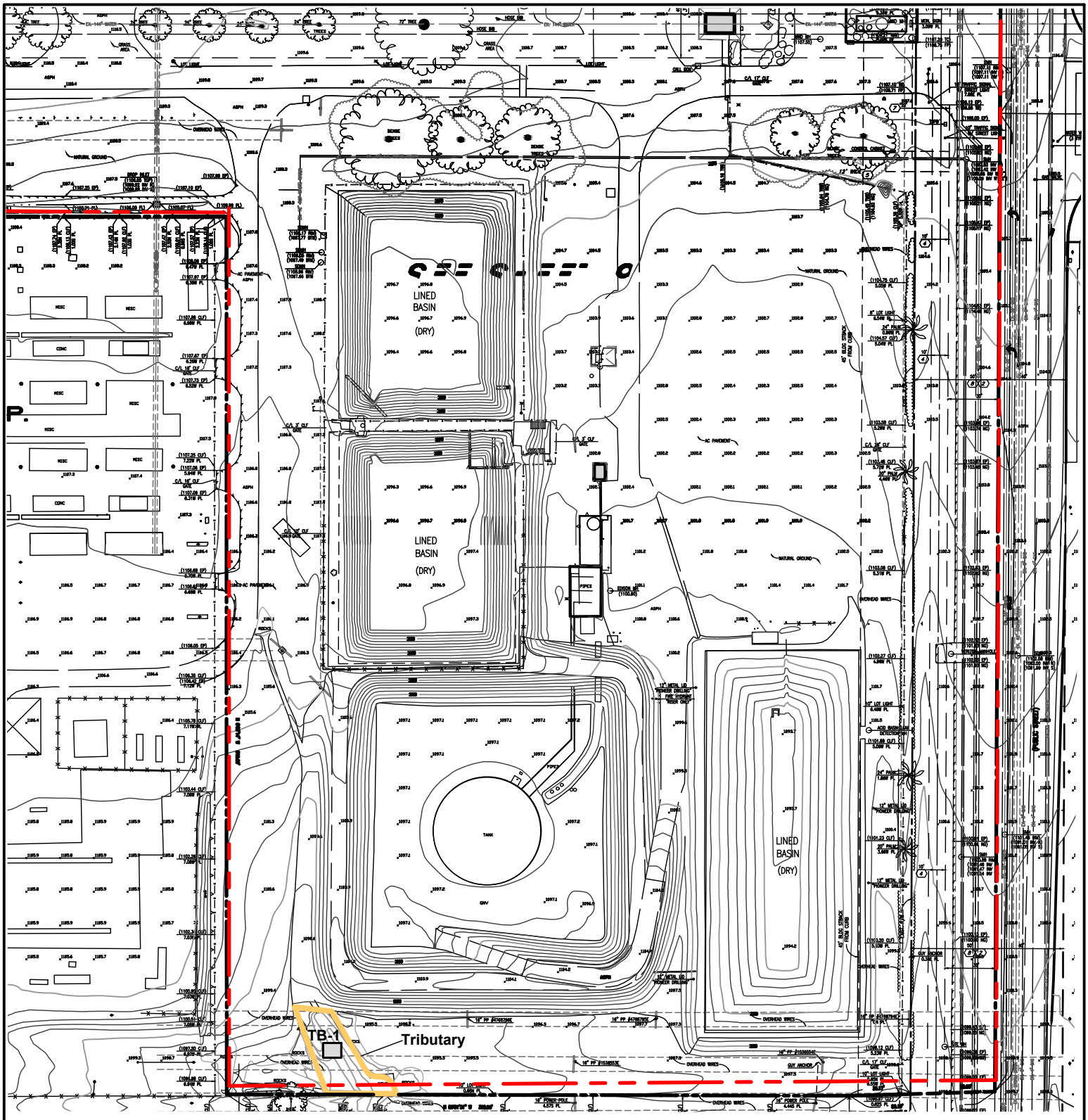
N

APPROXIMATE SCALE, FEET

0 30 60

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. 101120002	MAINTENANCE SHOP AND ASSOCIATED SEPTIC SYSTEM	FIGURE 6
	DATE 10/19	8996 ETIWANDA AVENUE RANCHO CUCAMONGA, CALIFORNIA	



N

APPROXIMATE SCALE, FEET

0 80 160

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

Approximate Site Boundary

TB-1 Surface Sample Location and Designation

ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. **101120002**	TRIBUTARY	FIGURE **7**
	DATE **10/19**	8996 ETIWANDA AVENUE RANCHO CUCAMONGA, CALIFORNIA	

TABLE 1 - LABORATORY RESULTS OF SOIL SAMPLES, COOLING TOWERS 1 AND 2

Rationale	Test Pit ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	Title 22 Metals (mg/kg)																	
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess western extent of arsenic previously detected at Cooling Towers 1 and 2.	CT 1/2-1	10/9/2019	0.5	0	ND<1.0	**2.32**	**79.2**	ND<0.5	ND<0.5	**28.3**	ND<0.2	**6.42**	**10.9**	**1.83**	**0.014**	ND<5.0	**6.82**	ND<1.0	ND<1.0	**3.63**	**42.7**	**37.3**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess northern extent of arsenic previously detected at Cooling Towers 1 and 2	CT 1/2-2	10/9/2019	0.5	0	ND<1.0	**1.86**	**79.6**	ND<0.5	ND<0.5	**34**	ND<0.2	**5.94**	**16.2**	**7.41**	**0.013**	ND<0.5	**12.4**	ND<1.0	ND<1.0	**5.11**	**39.1**	**64.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-3	10/9/2019	0.5	0	ND<1.0	**2.02**	**85.9**	ND<0.5	ND<0.5	**28.1**	ND<0.2	**6.82**	**11.9**	**2.56**	**0.013**	ND<0.5	**6.81**	ND<1.0	ND<1.0	**4.6**	**42.8**	**40.4**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-4	10/9/2019	0.5	0	ND<1.0	**3.54**	**103**	ND<0.5	ND<0.5	**32.3**	ND<0.2	**7.98**	**12.8**	**2.79**	**0.016**	ND<0.5	**6.75**	ND<1.0	ND<1.0	**7.45**	**34.8**	**49.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess eastern extent of arsenic previously detected at Cooling Towers 1 and 2	CT 1/2-5	10/9/2019	0.5	0	ND<1.0	**6.71**	**111**	ND<0.5	**1.22**	**35.1**	ND<0.2	**8.45**	**12.1**	**3.52**	**0.014**	ND<0.5	**7.12**	ND<1.0	ND<1.0	**5.72**	**46.7**	**1190**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess southern extent of arsenic previously detected at Cooling Towers 1 and 2	CT 1/2-6	10/9/2019	0.5	0	ND<1.0	**1.58**	**113**	ND<0.5	ND<0.5	**29.5**	ND<0.2	**7.86**	**11**	**3.17**	**0.014**	ND<0.5	**6.42**	ND<1.0	ND<1.0	**7.67**	**44.9**	**45.4**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-7	10/9/2019	0.5	0	ND<1.0	**1.99**	**88**	ND<0.5	ND<0.5	**26.7**	ND<0.2	**7.19**	**12**	**2.97**	**0.016**	ND<0.5	**7.89**	ND<1.0	ND<1.0	**5.78**	**41.1**	**44.4**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-8	10/9/2019	0.5	0	ND<1.0	**0.95**	**93.7**	ND<0.5	ND<0.5	**29.5**	ND<0.2	**7.02**	**11.4**	**2.16**	**0.016**	ND<0.5	**6.79**	ND<1.0	ND<1.0	**4.8**	**45.2**	**41**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess medial concentration of arsenic previously detected Cooling Towers 1 and 2	CT 1/2-9	10/9/2019	0.5	0	ND<1.0	**0.81**	**83.9**	ND<0.5	ND<0.5	**27**	ND<0.2	**6.43**	**11.5**	**1.88**	ND<0.1	ND<0.5	**7.38**	ND<1.0	ND<1.0	**4.83**	**37.6**	**37.6**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-10	10/9/2019	0.5	0	ND<1.0	**1.39**	**129**	ND<0.5	ND<0.5	**44.2**	ND<0.2	**9.83**	**18.1**	**3.34**	ND<0.1	ND<0.5	**10.2**	ND<1.0	ND<1.0	**6.54**	**53.3**	**59.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-11	10/9/2019	0.5	0	ND<1.0	**1.20**	**121**	ND<0.5	ND<0.5	**36.3**	ND<0.2	**8.75**	**15**	**3.03**	ND<0.1	ND<0.5	**8.49**	ND<1.0	ND<1.0	**9.08**	**47.9**	**55.2**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health		**EPA-RSLi**		NA	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
		DTSC-SLi		NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
		Background for Arsenic		NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions		**SCAQMD**		50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria		**TTLC**		NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
		STLC		NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
		10x STLC		NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
		20x STLC		NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 2 - LABORATORY RESULTS OF SOIL SAMPLES, SLUDGE DRAINAGE AREA ASSOCIATED WITH COOLING TOWERS 1 AND 2

Rationale	Soil Boring ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	Title 22 Metals (mg/kg)																	
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals in soil along possible sludge drag out path located between Cooling Towers 1 and 2 and the Sludge Drainage Area.	SDA-1	10/15/2019	0.5	0	ND<1.0	ND<0.3	**136**	ND<0.5	ND<0.5	**28.3**	ND<0.2	**8.08**	**6.76**	**1.05**	**0.012**	ND<5.0	**4.11**	ND<1.0	ND<1.0	**2.17**	**39.3**	**40.3**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-2	10/15/2019	0.5	0	ND<1.0	ND<0.3	**96.3**	ND<0.5	ND<0.5	**36.6**	ND<0.2	**7.56**	**11.7**	**2.19**	**0.014**	ND<5.0	**6.62**	ND<1.0	ND<1.0	**1.98**	**42.6**	**42.6**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-3	10/15/2019	0.5	0	ND<1.0	**0.657**	**154**	ND<0.5	ND<0.5	**47.8**	ND<0.2	**11.5**	**17.3**	**4.37**	**0.017**	ND<5.0	**7.95**	ND<1.0	ND<1.0	**1.3**	**57.2**	**77.7**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately south of Sludge Drainage Area.	SDA-4	10/15/2019	0.5	0	ND<1.0	**0.357**	**127**	ND<0.5	ND<0.5	**45.1**	ND<0.2	**9.76**	**16.8**	**3.26**	**0.015**	ND<5.0	**10.1**	ND<1.0	ND<1.0	ND<1.0	**49.9**	**60.4**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-5	10/15/2019	0.5	0	ND<1.0	**0.32**	**131**	ND<0.5	ND<0.5	**45.9**	ND<0.2	**10.7**	**19.3**	**3.15**	**0.019**	ND<5.0	**11.4**	ND<1.0	ND<1.0	**4.13**	**54.1**	**68.6**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately east of Sludge Drainage Area.	SDA-6	10/15/2019	0.5	0	ND<1.0	**0.719**	**145**	ND<0.5	ND<0.5	**47.6**	ND<0.2	**10.5**	**16.7**	**4.26**	**0.017**	ND<5.0	**8.96**	ND<1.0	ND<1.0	**7.07**	**55**	**70.2**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil within central portion of Sludge Drainage Area.	SDA-7	10/15/2019	0.5	0	ND<1.0	**0.423**	**118**	ND<0.5	ND<0.5	**42**	ND<0.2	**8.71**	**14.4**	**2.62**	**0.015**	ND<5.0	**8.06**	ND<1.0	ND<1.0	ND<1.0	**56.5**	**53.4**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-8	10/15/2019	0.5	0	ND<1.0	**0.497**	**128**	ND<0.5	ND<0.5	**45**	ND<0.2	**9.41**	**17.3**	**3.06**	**0.017**	ND<5.0	**9.67**	ND<1.0	ND<1.0	**2.21**	**70.9**	**57.3**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-9	10/15/2019	0.5	0	ND<1.0	**0.493**	**131**	ND<0.5	ND<0.5	**45.9**	ND<0.2	**9.81**	**17.8**	**3.33**	**0.019**	ND<5.0	**8.81**	ND<1.0	ND<1.0	**8.17**	**51.2**	**60**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-10	10/15/2019	0.5	0	ND<1.0	**0.442**	**109**	ND<0.5	ND<0.5	**41**	ND<0.2	**8.71**	**15.2**	**3.39**	**0.013**	ND<5.0	**11.7**	ND<1.0	ND<1.0	ND<1.0	**45.1**	**54.7**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health	**EPA-RSLi**			NA	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi			NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
	Background for Arsenic			NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions	**SCAQMD**			50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**			NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
	STLC			NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
	10x STLC			NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
	20x STLC			NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ppm - parts per million

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 3 - LABORATORY RESULTS OF SOIL SAMPLES, COOLING TOWER 3

Rationale	Soil Boring ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	Title 22 Metals (mg/kg)																	
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Soluble Lead WET (ug/l)	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals in soil immediately west of Cooling Tower 3	CT3-1	10/14/2019	0.5	0	ND<1.0	**0.811**	**90.8**	ND<0.5	ND<0.5	**37.5**	ND<0.2	**6.14**	**6.31**	**1.86**	--	**0.013**	ND<5.0	**4.42**	ND<1.0	ND<1.0	ND<1.0	**32.7**	**29.2**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately north of Cooling Tower 3	CT3-2	10/14/2019	0.5	0	ND<1.0	**14.3**	**144**	ND<0.5	ND<0.5	**102**	ND<0.2	**9.04**	**221**	**56.9**	**0.086**	**0.03**	ND<5.0	**79.7**	ND<1.0	ND<1.0	ND<1.0	**107**	**115**
			1.5	--	--	**2.02**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	**1.06**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT3-3	10/14/2019	0.5	0	ND<1.0	ND<0.3	**75.7**	ND<0.5	ND<0.5	**25.7**	ND<0.2	**6.74**	**4.89**	**0.69**	--	**0.013**	ND<5.0	ND<2.5	ND<1.0	ND<1.0	ND<1.0	**28.8**	**25.8**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT3-4	10/14/2019	0.5	0	ND<1.0	**0.607**	**88.6**	ND<0.5	ND<0.5	**35.7**	ND<0.2	**7.25**	**9.41**	**2.01**	--	**0.015**	ND<5.0	**12.9**	ND<1.0	ND<1.0	ND<1.0	**33.9**	**37.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately east of Cooling Tower 3	CT3-5	10/14/2019	0.5	0	ND<1.0	**2.15**	**85.6**	ND<0.5	ND<0.5	**33.2**	ND<0.2	**6.9**	**6.79**	**2.44**	--	**0.015**	ND<5.0	**8.4**	ND<1.0	ND<1.0	ND<1.0	**39.2**	**31.6**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately south of Cooling Tower 3	CT3-6	10/14/2019	0.5	0	ND<1.0	**26.4**	**109**	ND<0.5	ND<0.5	**62.9**	ND<0.2	**7.96**	**48**	**3.31**	--	**0.018**	ND<5.0	**12.5**	ND<1.0	ND<1.0	ND<1.0	**36.4**	**47.9**
			1.5	--	--	**3.57**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	**2.35**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT3-7	10/14/2019	0.5	0	ND<1.0	**1.19**	**85**	ND<0.5	ND<0.5	**31**	ND<0.2	**6.35**	**37.9**	**1.48**	--	**0.015**	ND<5.0	**2.9**	ND<1.0	ND<1.0	ND<1.0	**33.5**	**28.2**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT3-8	10/14/2019	0.5	0	ND<1.0	**7.87**	**142**	ND<0.5	ND<0.5	**50**	ND<0.2	**10.5**	**20.4**	**3.88**	--	**0.018**	ND<5.0	**15.8**	ND<1.0	ND<1.0	ND<1.0	**53.1**	**60.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health	**EPA-RSLi**			NA	470	3.0	22,000	2,300	980	1,800,000	6	350	47,000	800	NA	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi			NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	NA	4.5	NA	3,100	NA	1,500	NA	1,000	NA
	Background for Arsenic			NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions	**SCAQMD**			50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**			NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	NA	20	3,500	2,000	100	500	700	2,400	5,000
	STLC			NA	15	5	100	0.75	1	560	5	80	25	5	5	0.2	350	20	1	5	7	24	250
	10x STLC			NA	150	50	1,000	7.5	10	5,600	50	800	250	50	NA	2	3,500	200	10	50	70	240	2,500
	20x STLC			NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	NA	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

PID - Photoionization Detector

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

Green highlighted cell indicates a concentration that exceeds a regulatory screening level for disposal criteria

TABLE 4 - LABORATORY RESULTS OF SOIL SAMPLES, COOLING TOWER 4

Rationale	Soil Boring ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	Title 22 Metals (mg/kg)																	
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals in soil immediately west of Cooling Tower 4	**CT4-1**	10/14/2019	0.5	0	ND<1.0	**0.353**	**92.4**	ND<0.5	ND<0.5	**35.2**	ND<0.2	**7.33**	**9.72**	**2.1**	**0.015**	ND<5.0	**5.94**	ND<1.0	ND<1.0	ND<1.0	**34**	**39.6**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately north of Cooling Tower 4	**CT4-2**	10/14/2019	0.5	0	ND<1.0	**5.93**	**64**	ND<0.5	ND<0.5	**41.2**	ND<0.2	**7.11**	**139**	**19.9**	**0.015**	ND<5.0	**21.9**	ND<1.0	ND<1.0	ND<1.0	**31.1**	**102**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT4-3	10/14/2019	0.5	0	ND<1.0	**2.41**	**70.1**	ND<0.5	ND<0.5	**31.9**	ND<0.2	**6.41**	**6.17**	**1.23**	**0.013**	ND<5.0	**6.28**	ND<1.0	ND<1.0	ND<1.0	**35.8**	**25.9**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT4-4	10/14/2019	0.5	0	ND<1.0	**1.79**	**114**	ND<0.5	ND<0.5	**42.9**	ND<0.2	**8.4**	**40.1**	**4.65**	**0.018**	ND<5.0	**13**	ND<1.0	ND<1.0	ND<1.0	**37.8**	**101**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately south of Cooling Tower 4	**CT4-5**	10/14/2019	0.5	0	ND<1.0	ND<0.3	**101**	ND<0.5	ND<0.5	**33.2**	ND<0.2	**7.5**	**8.31**	**2.11**	**0.013**	ND<5.0	**3.35**	ND<1.0	ND<1.0	ND<1.0	**33**	**34.5**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately east of Cooling Tower 4	**CT4-6**	10/14/2019	0.5	0	ND<1.0	**2.69**	**108**	ND<0.5	ND<0.5	**49.8**	ND<0.2	**8.23**	**53.3**	**12.2**	**0.015**	ND<5.0	**28**	ND<1.0	ND<1.0	ND<1.0	**41.3**	**71.8**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT4-7	10/14/2019	0.5	0	ND<1.0	**1.51**	**132**	ND<0.5	ND<0.5	**160**	ND<0.2	**4.89**	**32.3**	**12.9**	**0.015**	ND<5.0	**15.7**	ND<1.0	ND<1.0	ND<1.0	**146**	**105**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT4-8	10/14/2019	0.5	0	ND<1.0	**2.48**	**84.7**	ND<0.5	ND<0.5	**35.8**	ND<0.2	**7.02**	**12.9**	**3.19**	**0.018**	ND<5.0	**8.41**	ND<1.0	ND<1.0	ND<1.0	**37.5**	**42.9**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health	**EPA-RSLi**			NA	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi			NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
	Background for Arsenic			NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions	**SCAQMD**			50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**			NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
	STLC			NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
	10x STLC			NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
	20x STLC			NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unified School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 5 - LABORATORY RESULTS OF SOIL SAMPLES, CHADWICK CHANNEL

Rationale	Mulit-Increment Sample ID	Sample Date	Sample Depth (feet bgs)	TPHcc (mg/kg)			PCBs (mg/kg)		Title 22 Metals (mg/kg)																
				TPHg C_4 - C_{10}	TPHd C_{10} - C_{28}	TPHo C_{23} - C_{35}	Aroclor 1254	All Others	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess soil within the Chadwick Channel	CC-1	10/8/2019	0.5	ND<10	11.7	69.1	0.19	ND<0.01	ND<1.0	1.25	89.5	ND<0.5	0.63	111	ND<0.2	6.97	57.2	36.8	0.05	ND<5.0	27.8	ND<1.0	ND<1.0	ND<1.0	55.8	211
	CC-2	10/8/2019	0.5	ND<10	883	3,760	0.12	ND<0.01	ND<1.0	2.05	132	ND<0.5	1.02	156	ND<0.2	6.3	88	46.7	0.05	ND<5.0	38.3	ND<1.0	ND<1.0	8.85	60.5	382
	CC-3	10/8/2019	0.5	ND<10	69.7	261	0.09	ND<0.01	ND<1.0	1.53	86.8	ND<0.5	1.75	75.4	ND<0.2	6.11	43	27	0.07	ND<5.0	27.4	ND<1.0	ND<1.0	ND<1.0	54	146
	CC-4	10/8/2019	0.5	ND<10	24.1	142	0.06	ND<0.01	ND<1.0	1.14	86.3	ND<0.5	ND<0.5	85.2	ND<0.2	5.8	40.8	19.8	0.04	ND<5.0	22.2	ND<1.0	ND<1.0	ND<1.0	62.7	134
	CC-5	10/8/2019	0.5	ND<10	130	525	0.05	ND<0.01	ND<1.0	1.18	98.6	ND<0.5	0.57	115	ND<0.2	6.58	59.8	31.8	0.03	ND<5.0	42.9	ND<1.0	ND<1.0	ND<1.0	63	218
	CC-6	10/8/2019	0.5	ND<10	113	590.8	0.04	ND<0.01	ND<1.0	2.47	130	ND<0.5	0.85	130	ND<0.2	7.28	102	45.3	0.05	ND<5.0	52.2	ND<1.0	ND<1.0	ND<1.0	73.7	315
	CC-7	10/8/2019	0.5	ND<10	395	1,730	0.03	ND<0.01	ND<1.0	1.22	77	ND<0.5	ND<0.5	64.6	ND<0.2	4.84	40.9	19.3	0.02	ND<5.0	32.4	ND<1.0	ND<1.0	ND<1.0	50.9	160
	CC-8	10/8/2019	0.5	ND<10	47.8	232	0.03	ND<0.01	ND<1.0	1.19	81.2	ND<0.5	ND<0.5	66	ND<0.2	6.46	34.6	23.6	0.03	ND<5.0	30.3	ND<1.0	ND<1.0	2.55	60.8	144
	CC-9	10/8/2019	0.5	ND<10	39.3	146	0.01	ND<0.01	ND<1.0	0.67	63.1	ND<0.5	ND<0.5	50.5	ND<0.2	5.65	23.7	10.7	0.02	ND<5.0	23.3	ND<1.0	ND<1.0	ND<1.0	50.2	103
	CC-10	10/8/2019	0.5	ND<10	84.7	478	0.03	ND<0.01	ND<1.0	0.88	81.8	ND<0.5	0.53	99.5	ND<0.2	6.15	52.8	26.5	0.04	ND<5.0	42.5	ND<1.0	ND<1.0	ND<1.0	60.6	222
Protection of Human Health		EPA-RSLi		2200	440.0	3,500,000	0.97	Various	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
		DTSC-SLi		NA	NA	NA	0.58	Various	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
		Background for Arsenic		NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Protection of Environment		LARWQCB		100	10,000	50000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions		SCAQMD		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria		TTLC		NA	NA	NA	NA	NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
		STLC		NA	NA	NA	NA	NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
		10x STLC		NA	NA	NA	NA	NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
		20x STLC		NA	NA	NA	NA	NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

TPHcc - total petroleum hydrocarbons carbon chain C4-C35 analyzed in general accordance with EPA Method No. 8015 (modified)

TPHg - total petroleum hydrocarbons as gasoline

TPHd - total petroleum hydrocarbons as diesel fuel

TPHo - total petroleum hydrocarbons as oil

PCBs - Polychlorinated Biphenyls analyzed in general accordance with EPA Method No. 8082

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

LARWQCD - Los Angeles Regional Water District Control Board, Interim Site Assessment and Cleanup Guidebook, March 1996

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

TABLE 6 - LABORATORY RESULTS OF SOIL SAMPLES, RAILROAD SPUR

Rationale	Multi-Increment Sample ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	OCPs (mg/kg)		Title 22 Metals (mg/kg)															
					DDE	All Others	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals and pesticides in soil along railroad spur.	RR-1	10/9/2019	0.5	0	ND<0.001	ND<0.001-0.02	ND<1.0	**1.19**	**104**	ND<0.5	ND<0.5	**30.8**	**7.61**	**13.5**	**2.33**	**0.018**	ND<5.0	**8.86**	ND<1.0	ND<1.0	**7.1**	**72.6**	**47.4**
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RR-2	10/9/2019	0.5	0	0.001	ND<0.001-0.02	ND<1.0	**1.36**	**121**	ND<0.5	ND<0.5	**36.1**	**10.7**	**18.9**	**3.4**	**0.014**	ND<0.5	**26.5**	ND<1.0	ND<1.0	**8.13**	**39.6**	**73.2**
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RR-3	10/9/2019	0.5	0	0.020	ND<0.001-0.02	ND<1.0	**1.69**	**104**	ND<0.5	ND<0.5	**31.2**	**8.5**	**15.9**	**6.24**	**0.024**	ND<0.5	**24.8**	ND<1.0	ND<1.0	**6.68**	**51.9**	**44.7**
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RR-4	10/9/2019	0.5	0	0.014	ND<0.001-0.02	ND<1.0	**1.42**	**107**	ND<0.5	ND<0.5	**32.4**	**5.98**	**13.4**	**4.89**	**0.019**	ND<0.5	**7.77**	ND<1.0	ND<1.0	**7.64**	**48.9**	**52.2**
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health	**EPA-RSLi**			NA	8.5	Various	470	3.0	22,000	2,300	980	1,800,000	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi			NA	9.3	Various	NA	0.36	NA	210	7.3	170,000	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
	Background for Arsenic			NA	NA	Various	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions	**SCAQMD**			50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**			NA	1	Various	500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
	STLC			NA	0.1	Various	15	5	100	0.75	1	560	80	25	5	0.2	350	20	1	5	7	24	250
	10x STLC			NA	1	Various	150	50	1,000	7.5	10	5,600	800	250	50	2	3,500	200	10	50	70	240	2,500
	20x STLC			NA	NA	Various	NA	100	2,000	NA	20	NA	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

OCPs - Organo Chlorine Pesticides analyzed in general accordance with EPA Method No. 8081A

PID - Photoionization Detector

DDE - Dichlorodiphenyldichloroethylene

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 7 - LABORATORY RESULTS OF SOIL SAMPLES, LANDFILL I

Rationale	Test Pit ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	VOCs (mg/kg)	TPHcc (mg/kg)			Title 22 Metals (mg/kg)																				
						TPHg C_4 - C_{10}	TPHd C_{10} - C_{28}	TPHo C_{23} - C_{35}	Antimony	Arsenic	Soluble Arsenic WET (ug/l)	Soluble Arsenic TCLP (ug/l)	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Soluble Copper WET (ug/l)	Lead	Soluble Lead WET (ug/l)	Soluble Lead TCLP (ug/l)	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess soil within Landfill I	LFI-1	10/9/2019	3	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	25.1	--	--	178	ND<0.5	1.27	81.7	ND<0.2	9.85	832	68.3	111	10	0.057	0.06	ND<5.0	23.1	ND<1.0	ND<1.0	5.42	46.9	618
	LFI-2	10/9/2019	5	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	0.769	--	--	71.6	ND<0.5	ND	22.9	ND<0.2	5.69	9.08	--	1.53	--	--	0.01	ND<5.0	5.75	ND<1.0	ND<1.0	4.1	30.5	31.3
Sample collected from 2' thick layer of black stained soil.	LFI-3	10/9/2019	4	0	ND<0.005-0.02	ND<10	13.5	86.1	ND<1.0	227	18.5	0.046	302	ND<0.5	6.41	574	ND<0.2	13.2	3,220	--	769	67.1	0.328	0.20	ND<5.0	134	ND<1.0	ND<1.0	ND<1.0	175	1,420
Sample collected beneath observed layer of stained soil.	LFI-3	10/9/2019	7	0	ND<0.005-0.02	ND<10	37.1	212	ND<1.0	297	12.2	0.058	410	ND<0.5	5.82	700	ND<0.2	14.8	3,130	--	949	51.1	0.625	0.12	ND<5.0	139	ND<1.0	ND<1.0	ND<1.0	201	1,050
Assess soil within Landfill I.	LFI-4	10/9/2019	5	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	1.26	--	--	98.6	ND<0.5	ND	30.8	ND<0.2	8.21	13.5	--	2.55	--	--	0.02	ND<5.0	9.33	ND<1.0	ND<1.0	5.72	46	48.7
	LFI-5	10/9/2019	7	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	7.86	--	--	158	ND<0.5	ND	56.1	ND<0.2	10.1	111	--	20.3	--	--	0.02	ND<5.0	14.9	ND<1.0	ND<1.0	7.83	59	85.6
	LFI-6	10/9/2019	3	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	2.17	--	--	119	ND<0.5	ND	39	ND<0.2	10.5	29.8	--	6.75	--	--	0.01	ND<5.0	66.6	ND<1.0	ND<1.0	8.11	121	66
	LFI-7	10/9/2019	6	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	0.982	--	--	72.3	ND<0.5	ND	22.5	ND<0.2	6.11	8.22	--	1.43	--	--	0.01	ND<5.0	5.58	ND<1.0	ND<1.0	3.7	37.3	30.9
Protection of Human Health	**EPA-RSLi**		NA	Various	2,200	440	3,500,000	470	3.0	NA	NA	22,000	2,300	980	1,800,000	6	350	47,000	NA	800	NA	NA	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi		NA	Various	NA	NA	NA	NA	0.36	NA	NA	NA	210	7.3	170,000	6.2	NA	NA	NA	320	NA	NA	4.5	NA	3,100	NA	1500	NA	1000	NA
	Background for Arsenic		NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Protection of Environment	**LARWQCB**		NA	NA	1,000	10,000	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions	**SCAQMD**		50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**		NA	NA	NA	NA	NA	500	500	NA	NA	10,000	75	100	2,500	500	8,000	2,500	NA	1,000	NA	NA	20	3,500	2,000	100	500	700	2,400	5,000
	STLC		NA	NA	NA	NA	NA	15	5	5	5	100	0.75	1	560	5	80	25	25	5	5	5	0.2	350	20	1	5	7	24	250
	10x STLC		NA	NA	NA	NA	NA	150	50	NA	NA	1,000	7.5	10	5,600	50	800	250	NA	50	NA	NA	2	3,500	200	10	50	70	240	2,500
	20x STLC		NA	NA	NA	NA	NA	NA	100	NA	NA	2,000	NA	20	NA	100	NA	NA	NA	100	NA	NA	400	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ug/L - micrograms per liter

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

TPHcc - total petroleum hydrocarbons carbon chain C4-C35 analyzed in general accordance with EPA Method No. 8015 (modified)

TPHg - total petroleum hydrocarbons as gasoline

TPHd - total petroleum hydrocarbons as diesel fuel

TPHo - total petroleum hydrocarbons as oil

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

LARWQCD - Los Angeles Regional Water District Control Board, Interim Site Assessment and Cleanup Guidebook, March 1996

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unified School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TCLP - Toxicity Characteristic Leeching Procedure

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

Green highlighted cell indicates a concentration that exceeds a regulatory screening level for disposal criteria

Blue highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health and for disposal criteria

TABLE 8 - LABORATORY RESULTS OF SOIL SAMPLES, LANDFILL II

Rationale	Test Pit ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	VOCs (mg/kg)	TPHcc (mg/kg)			Title 22 Metals (mg/kg)															
						TPHg C_4 - C_{10}	TPHd C_{10} - C_{28}	TPHo C_{23} - C_{35}	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess soil in Landfill II.	**LFII-1**	10/10/2019	7	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.39**	**117**	ND<0.5	ND<0.5	**33.2**	ND<0.2	**9.42**	**16.1**	**3.19**	**0.016**	ND<5.0	**10.5**	ND<1.0	ND<1.0	**8.22**	**48**	**55.2**
	LFII-2	10/10/2019	6	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.45**	**130**	ND<0.5	ND<0.5	**36.1**	ND<0.2	**10.3**	**19.7**	**4.69**	**0.013**	ND<5.0	**12.3**	ND<1.0	ND<1.0	**7.33**	**50.3**	**68.3**
	LFII-3	10/10/2019	6	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**2.16**	**117**	ND<0.5	ND<0.5	**49.4**	ND<0.2	**10.2**	**36.3**	**15.9**	**0.017**	ND<5.0	**19.4**	ND<1.0	ND<1.0	**7.81**	**52.3**	**130**
	LFII-4	10/10/2019	4	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.4**	**82.2**	ND<0.5	ND<0.5	**26.5**	ND<0.2	**7.82**	**12.8**	**5.93**	**0.016**	ND<5.0	**8.71**	ND<1.0	ND<1.0	**6.3**	**38.3**	**59.9**
	LFII-5	10/10/2019	5	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.12**	**93.2**	ND<0.5	ND<0.5	**29.1**	ND<0.2	**8.38**	**13.1**	**3.78**	**0.014**	ND<5.0	**9.97**	ND<1.0	ND<1.0	**7.53**	**42.1**	**51.6**
	LFII-6	10/9/2019	4	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.16**	**76.8**	ND<0.5	ND<0.5	**24.3**	ND<0.2	**6.29**	**9**	**1.81**	ND<0.01	ND<5.0	**5.93**	ND<1.0	ND<1.0	**3.08**	**37**	**35.4**
	LFII-7	10/9/2019	3	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**0.961**	**67**	ND<0.5	ND<0.5	**23.5**	ND<0.2	**6.14**	**7.58**	**1.57**	ND<0.01	ND<5.0	**5.02**	ND<1.0	ND<1.0	**5.69**	**30.7**	**31.5**
	LFII-8	10/9/2019	6	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.35**	**63.2**	ND<0.5	ND<0.5	**23.1**	ND<0.2	**5.47**	**7.6**	**1.72**	ND<0.01	ND<5.0	**5.4**	ND<1.0	ND<1.0	**2.09**	**39.5**	**31.2**
	LFII-9	10/9/2019	2	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.53**	**93.7**	ND<0.5	ND<0.5	**27.3**	ND<0.2	**9.42**	**13.6**	**3.43**	ND<0.01	ND<5.0	**9.89**	ND<1.0	ND<1.0	**6.42**	**38.2**	**51.1**
	LFII-10	10/9/2019	5	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.55**	**71.7**	ND<0.5	ND<0.5	**27**	ND<0.2	**6.15**	**11.2**	**3.22**	ND<0.01	ND<5.0	**8.59**	ND<1.0	ND<1.0	**2.57**	**42.1**	**41.8**
Protection of Human Health		**EPA-RSLi**	NA	Various	2,200	440	3,500,000	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
		DTSC-SLi	NA	Various	NA	NA	NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
		Background for Arsenic	NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Protection of Environment		**LARWQCB**	NA	NA	1,000	10,000	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions		**SCAQMD**	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria		**TTLC**	NA	Various	NA	NA	NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
		STLC	NA	Various	NA	NA	NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
		10x STLC	NA	Various	NA	NA	NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
		20x STLC	NA	Various	NA	NA	NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

TPHcc - total petroleum hydrocarbons carbon chain C4-C35 analyzed in general accordance with EPA Method No. 8015 (modified)

TPHg - total petroleum hydrocarbons as gasoline

TPHd - total petroleum hydrocarbons as diesel fuel

TPHo - total petroleum hydrocarbons as oil

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

LARWQCD - Los Angeles Regional Water District Control Board, Interim Site Assessment and Cleanup Guidebook, March 1996

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 9 - LABORATORY RESULTS OF SOIL GAS SAMPLES, FORMER HAZARDOUS WASTE STORAGE AREA

Rationale	Soil Gas Point ID	Sample Date	Sample Depth (feet bgs)	VOCs (ug/L)							
				Ethylbenzene	Styrene	PCE	Toluene	1,2,4 TMB	m,p-Xylene	o-Xylene	Other VOCs
Screening soil gas sample points.	**FHW-1**	10/17/2019	5	**0.010**	**0.015**	ND<0.008	**0.015**	**0.026**	**0.050**	**0.02**	ND<0.008-0.4000
	FHW-2	10/17/2019	5	**0.011**	**0.017**	**0.061**	**0.013**	**0.025**	**0.052**	**0.022**	ND<0.008-0.4000
	FHW-3	10/17/2019	5	**0.011**	**0.019**	**0.027**	**0.017**	**0.026**	**0.050**	**0.021**	ND<0.008-0.4000
	FHW-4	10/17/2019	5	**0.015**	**0.025**	**0.030**	**0.032**	**0.027**	**0.065**	**0.026**	ND<0.008-0.4000
Protection of Human Health		EPA-RSLi		4.9	146.6	1.5	733	8.6	14.6	14.6	Various
		DTSC-SLi		NA	130	0.067	430.6	NA	NA	NA	Various

Notes:

ID - identification

feet bgs - feet below the ground surface

ug/L - micrograms per liter

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

PCE - Tetrachloroethene

1,2,4-TMB - 1,2,4-Trimethylbenzene

EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land , dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

TABLE 10 - LABORATORY RESULTS OF SOIL GAS SAMPLES, EXISTING HAZARDOUS WASTE STORAGE AREA

Rationale	Soil Gas Point ID	Sample Date	Sample Depth (feet bgs)	VOCs (ug/L)									
				Ethylbenzene	Isopropyl-benzene	Styrene	PCE	Toluene	1,2,4 TMB	1,3,5 TMB	m,p-Xylene	o-Xylene	Other VOCs
Soil gas sample points adjacent to septic pits.	**EHW-1**	10/17/2019	5	**0.023**	**0.012**	**0.023**	ND<0.008	**0.029**	**0.044**	**0.010**	**0.114**	**0.045**	ND<0.008-0.4000
	EHW-2	10/17/2019	5	**0.022**	ND<0.008	**0.019**	**0.046**	**0.032**	**0.053**	**0.011**	**0.105**	**0.041**	ND<0.008-0.4000
Protection of Human Health		EPA-RSLi		4.9	NA	146.6	1.5	733.3	8.6	8.6	14.6	14.6	Various
		DTSC-SLi		NA	NA	130	0.067	430.3	NA	NA	NA	NA	Various

Notes:

ID - identification

feet bgs - feet below the ground surface

ug/L - micrograms per liter

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

PCE - Tetrachloroethene

1,2,4-TMB - 1,2,4-Trimethylbenzene

1,3,4-TMB - 1,3,5-Trimethylbenzene

EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land , dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

TABLE 11 - LABORATORY RESULTS OF SOIL GAS SAMPLES, MAINTENANCE SHOP

Rationale	Soil Gas Point ID	Sample Date	Sample Depth (feet bgs)	VOCs (ug/L)																	
				Bromo-dichloro-methane	Bromoform	Chloroform	Dibromo-chloro-methane	1,1-DCA	1,1-DCE	Ethylbenzene	Isopropyl-benzene	Styrene	PCE	Toluene	1,1,1-TCA	TCE	1,2,4-TMB	1,3,5-TMB	Vinyl Chloride	m,p-Xylene	o-Xylene	Other VOCs
South of Maintenance Shop	**MS-1**	10/17/2019	5	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008	**0.022**	**0.009**	**0.034**	**0.049**	**0.068**	**0.011**	ND<0.008	**0.019**	ND<0.008	ND<0.008	**0.086**	**0.030**	ND<0.008-0.400
West of Maintenance Shop	**MS-2**	10/17/2019	5	**0.010**	ND<0.008	**0.017**	ND<0.008	ND<0.008	**0.047**	**0.028**	**0.009**	**0.030**	**0.046**	**0.086**	**0.060**	ND<0.008	**0.028**	ND<0.008	ND<0.008	**0.114**	**0.039**	ND<0.008-0.400
	MS-2 (DUP)	10/17/2019	5	**0.010**	ND<0.008	**0.018**	ND<0.008	ND<0.008	**0.046**	**0.029**	**0.009**	**0.030**	**0.037**	**0.087**	**0.058**	ND<0.008	**0.029**	ND<0.008	ND<0.008	**0.115**	**0.039**	ND<0.008-0.400
	MS-3	10/17/2019	5	**0.020**	ND<0.008	**0.042**	**0.015**	ND<0.008	**0.157**	**0.031**	ND<0.008	ND<0.008	**0.155**	**0.045**	**0.164**	ND<0.008	**0.026**	ND<0.008	**0.014**	**0.158**	**0.055**	ND<0.008-0.400
	MS-4	10/17/2019	5	**0.027**	**0.009**	**0.049**	**0.018**	ND<0.008	**0.158**	**0.036**	**0.012**	**0.040**	**0.067**	**0.155**	**0.161**	ND<0.008	**0.028**	ND<0.008	**0.012**	**0.132**	**0.043**	ND<0.008-0.400
North of Maintenance Shop	**MS-5**	10/17/2019	5	**0.011**	ND<0.008	**0.023**	**0.008**	ND<0.008	**0.104**	**0.034**	**0.009**	**0.029**	**0.060**	**0.105**	**0.140**	ND<0.008	**0.015**	ND<0.008	ND<0.008	**0.136**	**0.043**	ND<0.008-0.400
East of Maintenance Shop	**MS-6**	10/17/2019	5	ND<0.008	ND<0.008	**0.021**	ND<0.008	**0.396**	**0.571**	**0.028**	ND<0.008	**0.022**	**0.661**	**0.094**	**1.77**	ND<0.008	**0.033**	**0.008**	**0.138**	**0.107**	**0.038**	ND<0.008-0.400
	MS-7	10/17/2019	5	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008	**0.048**	**0.018**	ND<0.008	**0.022**	**0.075**	**0.058**	**0.133**	ND<0.008	**0.021**	ND<0.008	ND<0.008	**0.068**	**0.025**	ND<0.008-0.400
Sub-slab sample points within the Maintenance Shop	**MS-8SS**	10/17/2019	Sub Slab	ND<0.008	**0.015**	**0.014**	ND<0.008	ND<0.008	**0.122**	ND<0.008	ND<0.008	ND<0.008	**0.089**	ND<0.008	**0.214**	**0.008**	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008-0.400
	MS-9SS	10/17/2019	Sub Slab	**0.015**	ND<0.008	**0.033**	**0.009**	ND<0.008	**0.055**	ND<0.008	ND<0.008	ND<0.008	**0.076**	ND<0.008	**0.22**	ND<0.008	ND<0.008	ND<0.008	**0.009**	ND<0.008	ND<0.008	ND<0.008-0.400
Protection of Human Health - Vapor Intrusion		EPA-RSLi		0.011	0.367	0.017	NA	0.256	29	0.163	60	147	1.50	733	733	0.100	8.7	8.7	0.093	14.7	14.7	Various
		DTSC-SLi		0.011	0.367	NA	NA	0.256	10.3	NA	NA	130	0.067	43	147	NA	NA	NA	0.0053	NA	NA	Various

Notes:
ID - identification
feet bgs - feet below the ground surface
VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B
ug/L - micrograms per liter
DUP - duplicate sample
ND - no detectable concentrations above the laboratory reporting limit
NA - not available / not applicable
1,1-DCA - 1,1-Dichloroethane
1,1-DCE - 1,1-Dichloroethene
PCE - Tetrachloroethene
1,1,1 -TCA - 1,1,1-Trichlorethane
TCE - Trichloroethene
1,2,4-TMB - 1,2,4-Trimethylbenzene
1,3,4-TMB - 1,3,5-Trimethylbenzene
EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.
DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.
Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health through vapor intrusion

TABLE 12 - LABORATORY RESULTS OF SOIL GAS SAMPLES, SEPTIC SYSTEM ASSOCIATED WITH MAINTENANCE SHOP

Rationale	Soil Gas Point ID	Sample Date	Sample Depth (feet bgs)	VOCs (ug/L)														
				Chloroform	1,1-DCA	1,1-DCE	Ethylbenzene	Styrene	PCE	Toluene	1,1,1-TCA	TCE	1,2,4-TMB	1,3,5-TMB	Vinyl Chloride	m,p-Xylene	o-Xylene	Other VOCs
Screening soil gas sample points	**SS-1**	10/17/2019	5	**0.013**	**0.405**	**1.02**	**0.016**	**0.018**	**1.20**	**0.025**	**2.88**	**0.012**	**0.018**	ND<0.008	**0.160**	**0.067**	**0.025**	ND<0.008-0.4000
	SS-2	10/17/2019	5	ND<0.008	ND<0.008	**0.139**	**0.023**	**0.021**	**0.324**	**0.056**	**0.604**	ND<0.008	**0.049**	**0.011**	ND<0.008	**0.093**	**0.037**	ND<0.008-0.4000
	SS-3	10/17/2019	5	ND<0.008	ND<0.008	**0.171**	**0.030**	**0.008**	**0.341**	**0.125**	**0.631**	ND<0.008	**0.039**	**0.009**	ND<0.008	**0.103**	**0.041**	ND<0.008-0.4000
Protection of Human Health - Vapor Intrusion		EPA-RSLi		0.53	0.256	29	4.9	146.6	1.5	733.3	733.3	0.1	8.6	8.6	0.093	14.6	14.6	Various
		DTSC-SLi		NA	0.256	10.3	NA	130	0.067	430.3	146.67	NA	NA	NA	0.0053	NA	NA	Various

Notes:

ID - identification
feet bgs - feet below the ground surface
VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B
ug/L - micrograms per liter
DUP - duplicate sample
ND - no detectable concentrations above the laboratory reporting limit
NA - not available / not applicable
1,1-DCA - 1,1-Dichloroethane
1,1-DCE - 1,1-Dichloroethene
PCE - Tetrachloroethene
1,1,1 -TCA - 1,1,1-Trichloroethane
TCE - Trichloroethene
1,2,4-TMB - 1,2,4-Trimethylbenzene
1,3,5-TMB - 1,3,5-Trimethylbenzene
EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.
DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.
Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

TABLE 13 - LABORATORY RESULTS OF SOIL SAMPLES, FLUMES ASSOCIATED WITH COOLING TOWERS 1 - 4

Rationale	Soil Boring IDs	Sample Date	Sample Depth (feet bgs)	Title 22 Metals (mg/kg)																	
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess the concentration of metals in soil beneath Flumes associated with Cooling Towers 1 and 2	F1/2-1	10/7/19	0.5	ND<1.0	**0.578**	**55.4**	ND<0.5	ND<0.5	**25.1**	ND<0.5	**5.05**	**10.6**	**2.13**	ND<0.01	ND<5.0	**4.6**	ND<1.0	ND<1.0	ND<1.0	**35.2**	**30.70**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F1/2-2	10/7/19	0.5	ND<1.0	**0.895**	**101**	ND<0.5	ND<0.5	**32.2**	ND<0.5	**7.59**	**11.5**	**2.08**	ND<0.01	ND<5.0	**5.04**	ND<1.0	ND<1.0	**2.82**	**42.3**	**44.50**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F1/2-3	10/7/19	0.5	ND<1.0	**1.27**	**98.3**	ND<0.5	**0.503**	**41.4**	ND<0.5	**7.42**	**14.2**	**2.59**	ND<0.01	ND<5.0	**5.98**	ND<1.0	ND<1.0	**4**	**41.5**	**247.00**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F1/2-4	10/7/19	0.5	ND<1.0	**1.45**	**111**	ND<0.5	ND<0.5	**35.8**	ND<0.5	**8.24**	**13.4**	**2.25**	ND<0.01	ND<5.0	**5.18**	ND<1.0	ND<1.0	**5.86**	**44.1**	**114.00**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F1/2-5	10/7/19	0.5	ND<1.0	**1.44**	**123**	ND<0.5	ND<0.5	**46**	ND<0.5	**8.99**	**18.1**	**5.12**	ND<0.01	ND<5.0	**6.19**	ND<1.0	ND<1.0	ND<1.0	**51.1**	**177.00**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess the concentration of metals in soil beneath Flume associated with Cooling Tower 3	F3-1	10/7/19	0.5	ND<1.0	ND<0.30	**271**	ND<0.5	ND<0.5	**49.3**	ND<0.5	**16**	**17**	**2.89**	ND<0.01	ND<5.0	ND	ND<1.0	ND<1.0	**14.9**	**70.8**	**78.7**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2.43**	--	--
	F3-2	10/7/19	0.5	ND<1.0	ND<0.30	**131**	ND<0.5	ND<0.5	**28.3**	ND<0.5	**7.23**	**7.1**	**1.67**	ND<0.01	ND<5.0	**2.89**	ND<1.0	ND<1.0	**3.52**	**45.7**	**37.8**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F3-3	10/7/19	0.5	ND<1.0	ND<0.30	**97.6**	ND<0.5	ND<0.5	**16.4**	ND<0.5	**4.79**	**4.08**	**0.897**	ND<0.01	ND<5.0	**2.68**	ND<1.0	ND<1.0	ND<1.0	**25.6**	**25.6**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F3-4	10/7/19	0.5	ND<1.0	**0.515**	**127**	ND<0.5	ND<0.5	**30.8**	ND<0.5	**7.93**	**8.67**	**2.4**	ND<0.01	ND<5.0	**2.96**	ND<1.0	ND<1.0	**8.24**	**45.4**	**41.3**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess the concentration of metals in soil beneath Flume associated with Cooling Tower 4	F4-1	10/7/19	0.5	ND<1.0	0.357	**138**	ND<0.5	ND<0.5	**39.2**	ND<0.5	**10.8**	**11.9**	**3.25**	ND<0.01	ND<5.0	**4.27**	ND<1.0	ND<1.0	**9.26**	**53.3**	**56.5**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F4-2	10/7/19	0.5	ND<1.0	**0.46**	**90.7**	ND<0.5	ND<0.5	**27.3**	ND<0.5	**6.14**	**6.79**	**1.53**	ND<0.01	ND<5.0	**3.52**	ND<1.0	ND<1.0	**1.83**	**38.1**	**34.4**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F4-3	10/7/19	0.5	ND<1.0	**0.479**	**74.2**	ND<0.5	ND<0.5	**27.1**	ND<0.5	**6.19**	**7.14**	**1.68**	ND<0.01	ND<5.0	**4.3**	ND<1.0	ND<1.0	ND<1.0	**38**	**32.5**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F4-4	10/7/19	0.5	ND<1.0	**0.682**	**97.7**	ND<0.5	ND<0.5	**32.5**	ND<0.5	**7.29**	**10.1**	**2.68**	ND<0.01	ND<5.0	**5.39**	ND<1.0	ND<1.0	ND<1.0	**43.4**	**47.7**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health		**EPA-RSLi**		470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
		DTSC-SLi		NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
		Background for Arsenic		NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria		**TTLC**		500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
		STLC		15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
		10x STLC		150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
		20x STLC		NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land , dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

TABLE 14 - LABORATORY RESULTS OF SOIL SAMPLES, TRIBUTARY

Rationale	Soil Sample ID	Sample Date	Sample Depth (feet bgs)	TPHcc (mg/kg)			PCBs (mg/kg)		Title 22 Metals (mg/kg)																
				TPHg C_4 - C_{10}	TPHd C_{10} - C_{28}	TPHo C_{23} - C_{35}	Aroclor 1254	All Others	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals and petroleum hydrocarbons potentially flowing off-site	**TB-1**	10/9/19	0.5	ND<10	**58**	**445**	0.03	ND<0.01	ND<1.0	**1.51**	**159**	ND<0.5	**1.31**	**59.7**	ND<0.2	**7.18**	**66.4**	**75.4**	**0.067**	ND<5.0	**26.1**	ND<1.0	ND<1.0	**3.79**	**44.2**	**414**
Protection of Human Health	**EPA-RSLi**			420	600	33,000	0.97	Various	470	3.0	22,000	2,300	980	1,800,000	6	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi			NA	NA	NA	0.58	Various	NA	0.36	NA	210	7.3	170000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
	Background for Arsenic			NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Protection of Environment	**LARWQCB**			100	10,000	50000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**			NA	NA	NA	NA	NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
	STLC			NA	NA	NA	NA	NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
	10x STLC			NA	NA	NA	NA	NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
	20x STLC			NA	NA	NA	NA	NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

TPHcc - total petroleum hydrocarbons carbon chain C4-C35 analyzed in general accordance with EPA Method No. 8015 (modified)

TPHg - total petroleum hydrocarbons as gasoline

TPHd - total petroleum hydrocarbons as diesel fuel

TPHo - total petroleum hydrocarbons as oil

EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial abient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land , dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

Appendix G

Soil Removal Memorandum (ERM 2020)

ERM

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Memorandum

To	Steven Rounds, Department of Toxic Substance Control
From	Steve Williams, P.G., CHG, ERM
Date	22 September 2020
Subject	Etiwanda Generating Station – Soil Removal Memorandum

On behalf of GenOn, LLC. (GenOn), ERM-West, Inc. (ERM) has prepared this Soil Removal Memorandum (memo) for the Etiwanda Generating Station located at 8996 Etiwanda Avenue in Rancho Cucamonga, California (the Site; Figure 1). In October 2019, Ardent Environmental Group Inc. (Ardent) conducted a Site-wide investigation, which included excavating test pits in select areas of the Site and collecting soil samples for laboratory analysis. Two of the test pits (LFI-1 and LFI-3) located in the northwest corner of the property indicated lead and/or arsenic concentrations that exceeded applicable commercial/industrial soil screening levels. GenOn contracted ERM to remove the Arsenic and Lead impacted soil. ERM prepared and submitted to the DTSC a *Soil Excavation Work Pla*n, dated 4 March 2020. This memo documents the removal of the soils containing elevated metals concentrations in the northwest portion of the Site.

Between May and July 2020, ERM and their subcontractor, American Integrated Services, Inc. (AIS), conducted soil removal activities in general accordance with ERM's *Soil Excavation Work Pla*n. Soil excavation began at the LFI-1 and LFI-3 test pit locations and were extended based on visual observations, X-ray fluorescence (XRF) analyzer field-screening data, and soil sample analytical results. The following sections further detail the completed soil removal activities.

SOIL EXCAVATION AND SAMPLING

Prior to conducting any ground disturbance activities, Underground Service Alert was notified to obtain clearance for the work area. ERM also utilized a private geophysical utility locator to clear the excavation location for subsurface utilities and structures.

XRF soil screening was used to field test soil samples, based on the XRF results the excavation was either expanded or soil samples collected for confirmation laboratory analyses. Once XRF field screening results indicated impacted soils were removed to concentrations below applicable screening levels, confirmation samples were collected. A total of 87 confirmation soil samples (43 base samples [BS or BSS] and 44 sidewall samples [ESS, NSS, SSS, and WSS]) were collected to verify the remaining soil beneath and around the excavation did not contain arsenic and lead concentrations above applicable screening levels. The final excavation area was approximately 190 feet long and 105 feet wide with a depth ranging from 2 to 8 feet below ground surface. Prior to demobilizing, the sidewalls of the excavation were sloped to allow safe entry and egress to the excavation. The excavation area and final confirmation sample locations are presented on Figure 2. Photographs of the excavation are included in Attachment A.

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Soil samples collected during the excavation activities were submitted to Eurofins Calscience LLC in Garden Grove, a California State-Certified Laboratory (ID Number 2944). All confirmation samples were analyzed for metals by United States Environmental Protection Agency (USEPA) Method 6010B. Since lead and arsenic were the only samples exceeding regulatory levels, the majority of the samples were analyzed for those two constituents. However, 21 of the 87 confirmation samples were also analyzed for the other 14 metal constituents as part of USEPA 6010B, as well as mercury by USEPA 7471A. In addition, two confirmation samples were also analyzed for volatile organic compounds (VOCs) by USEPA 8260B and total petroleum hydrocarbon (TPH) by USEPA 8015B. Results from these other analyses were also compared to applicable soil screening levels and no other exceedances were observed. Summaries of metals, VOCs, and TPH in soils are provided in Tables 1, 2, and 3 respectively.

All laboratory analytical reports are included in Attachment B.

WASTE MANAGEMENT

Excavated soil was profiled as non-Resource Conservation and Recovery Act (RCRA) hazardous waste following waste characterization sampling and analytical testing. Excavated soils were stockpiled on plastic and covered each day, left in the excavation, or directly loaded into trucks for transportation and disposal. Approximately 6,445 tons of waste soil was generated during excavation activities; waste soil was then loaded into 256 trucks and transported to the Yuma County Landfill in Yuma, Arizona for proper disposal by AIS and/or their contractors. Copies of the non-RCRA hazardous waste manifests are included in Attachment C.

CONCLUSION AND RECOMMENDATIONS

Based on the results of field screening, visual observations and analytical results of the confirmation samples, all impacted soil containing elevated metals concentrations in the northwest portion of the Site has been removed and no further action to mitigate this area is required.

Please contact Mr. Steve Williams at 949-294-0835 or steve.williams@erm.com with any questions.

Attachments:

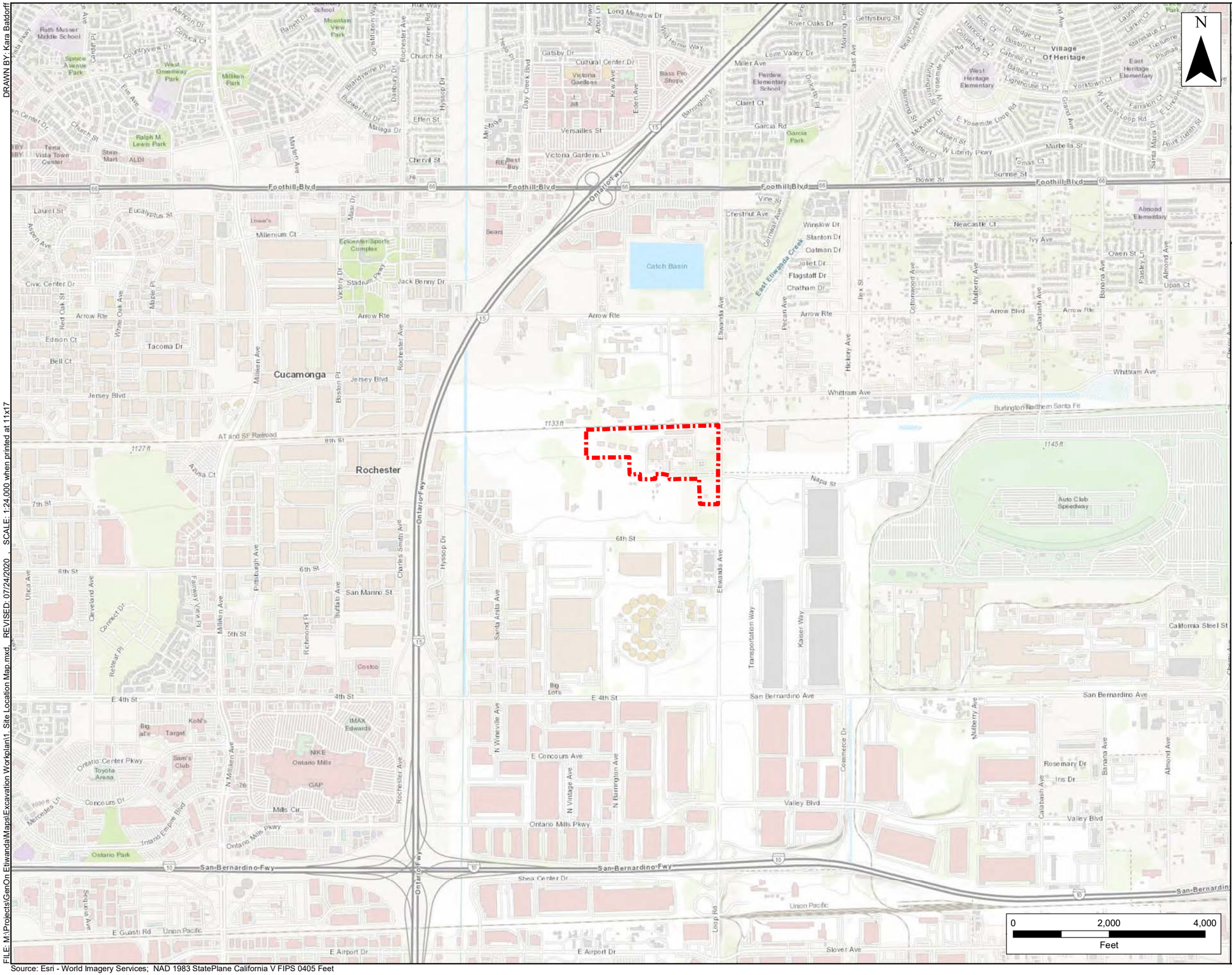
Figure 1: Site Location Map
Figure 2: Confirmation Sample Locations

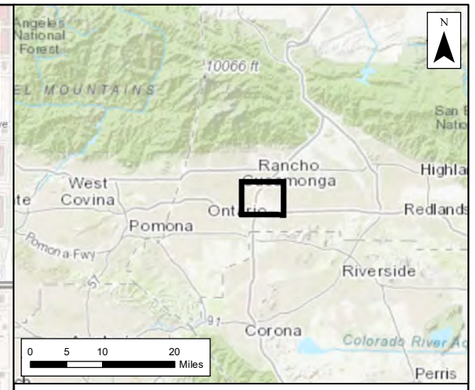
Table 1: Summary of Metals in Soil
Table 2: Summary of VOCs in Soil
Table 3: Summary of TPH in Soil
Attachment A – Site Photos
Attachment B – Laboratory Analytical Reports
Attachment C – Waste Manifests

FIGURES

DRAWN BY: Kara Batdorff

FILE: M:\Projects\GenOn Etiwanda\Maps\Excavation Workplan\1. Site Location Map.mxd REVISED: 07/24/2020 SCALE: 1:24,000 when printed at 11x17





Legend

Site Boundary

Figure 1
Site Location Map

Etiwanda Generation Station
8996 Etiwanda Avenue
Rancho Cucamonga, CA
San Bernardino County

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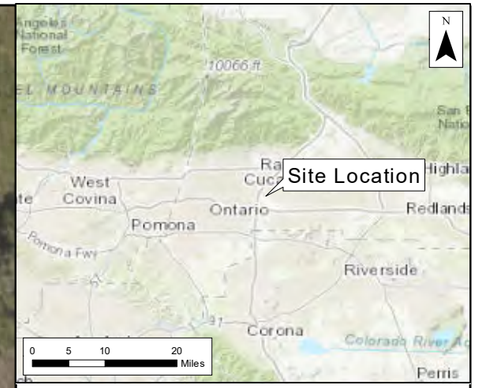
Source: Esri - World Imagery Services; NAD 1983 StatePlane California V FIPS 0405 Feet

DRAWN BY: GIS

FILE: M:\Projects\GenOn Etiwanda\Maps\Excavation Workplan\3. Final Excavation Area and Confirmation Soil Sample Locations.mxd, REVISED: 08/07/2020 , SCALE: 1:288 when printed at 11x17

NSS-3-11
NSS-3-12
NSS-3-13
LFI-1-NSS-1
BSS-6-6
BSS-6-5
LFI-1
NSS-3-7
LFI-1-WSS-2
BSS-3-5
BSS-7-4
LFI-1-BS-1
BSS-3-16
BSS-3-6
ESS-1.5-8
BSS-6-9
BSS-6-8
WSS-2-2
BSS-6-17
ESS-3-3
BSS-7-13
ESS-5-6
ESS-1-3
ESS-4-5
BSS-4-21
ESS-1-4
BSS-8.5-10
BSS-4-20
LFI-2
WSS-2-3
BSS-8.5-18
ESS-2-7
BSS-4.5-14
BSS-4-12
WSS-1.5-5
BSS-2-24
BSS-4-19
LFI-3-NSS-4
BSS-5-22
LFI-3-BS-5
LFI-3-BS-6
WSS-1.5-6
BSS-2-25
ESS-1.5-7
BSS-5-23
LFI-3-BS-1
BSS-3-11
LFI-3-BS-4
ESS-4.5-6
LFI-3-ESS-3
WSS-2-4
ESS-6.5-5
LFI-3
LFI-3-BS-2
BSS-2-27
SSS-4.5-1
ESS-1.5-4
BSS-3-7
WSS-2-5
BSS-5-26
LFI-3-BS-3
LFI-3-SSS-1
SSS-4-6
BSS-3-15
ESS-1.5-9
BSS-2-28
BSS-2-29
BSS-4-30
SSS-1.5-3
SSS-6-10
SSS-2-7
SSS-6-9
WSS-3-6
BSS-5-33
BSS-5-35
SSS-1-14
BSS-4-32
BSS-6.5-31
BSS-5-34
SSS-7-13
LFI-4
WSS-2-7
LFI-5
SSS-2-11
SSS-3-12

Source: Esri - World Topoographic Map; NAD 1983 StatePlane California V FIPS 0405 Feet



Legend

- Confirmation Soil Sample Location
- Test Pit Location
- Site Boundary
- Excavated Area

Notes:
feet = feet below ground surface

N

0 24 48
Feet

Figure 2
Confirmation Sample Locations
Etiwanda Generating Station
Rancho Cucamonga, California

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TABLES

Table 1
Summary of Metals in Soil
Etiwanda Generating Station
Rancho Cucamonga, California

					Analyte	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
					Method	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B
					Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				USEPA RSL Industrial Soil THQ1.0 May 2020		470	NA	220,000	2,300	980	1,800,000^	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
				CA DTSC Note 3 Soil C/I Combined June 2020		NS	12*	NS	230	780	NS	NS	NS	320	4.4	NS	11,000	NS	NS	NS	NS	NS
Location ID	Sample Date	Sample Type	Depth	Sample ID	Lab SDG																	
BSS-2-24	24 Jun 2020	N	2ft	BSS-2-24	570-31775-1	NA	< 0.258	NA	NA	NA	NA	NA	NA	**1.47**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-2-25	24 Jun 2020	N	2ft	BSS-2-25	570-31775-1	NA	**1.73**	NA	NA	NA	NA	NA	NA	**1.93**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-2-27	26 Jun 2020	N	2ft	BSS-2-27	570-32008-1	NA	**0.737 J**	NA	NA	NA	NA	NA	NA	**0.415 J**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-2-28	26 Jun 2020	N	2ft	BSS-2-28	570-32008-1	NA	**2.10**	NA	NA	NA	NA	NA	NA	**2.98**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-2-29	26 Jun 2020	N	2ft	BSS-2-29	570-32008-1	NA	**0.527 J**	NA	NA	NA	NA	NA	NA	**1.10**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-11	19 Jun 2020	N	3ft	BSS-3-11	570-31444-1	NA	**2.34**	NA	NA	NA	NA	NA	NA	**7.20 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-15	23 Jun 2020	N	3ft	BSS-3-15	570-31676-1	NA	**0.692 J**	NA	NA	NA	NA	NA	NA	**1.13**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-16	23 Jun 2020	N	3ft	BSS-3-16	570-31676-1	NA	**0.812**	NA	NA	NA	NA	NA	NA	**3.28**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-5	18 Jun 2020	N	3ft	BSS-3-5	570-31325-1	NA	**9.40**	NA	NA	NA	NA	NA	NA	**20.4**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-6	18 Jun 2020	N	3ft	BSS-3-6	570-31325-1	NA	< 0.270	NA	NA	NA	NA	NA	NA	**1.01**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-7	19 Jun 2020	N	3ft	BSS-3-7	570-31444-1	NA	< 0.260	NA	NA	NA	NA	NA	NA	**2.91 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4.5-14	19 Jun 2020	N	4.5ft	BSS-4.5-14	570-31444-1	NA	**0.294 J**	NA	NA	NA	NA	NA	NA	**2.00 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-12	19 Jun 2020	N	4ft	BSS-4-12	570-31444-1	NA	**9.12**	NA	NA	NA	NA	NA	NA	**35.2 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-19	23 Jun 2020	N	4ft	BSS-4-19	570-31676-1	NA	**1.23**	NA	NA	NA	NA	NA	NA	**2.86**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-20	24 Jun 2020	N	4ft	BSS-4-20	570-31775-1	NA	**1.17**	NA	NA	NA	NA	NA	NA	**1.36**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-21	24 Jun 2020	N	4ft	BSS-4-21	570-31775-1	NA	**1.71**	NA	NA	NA	NA	NA	NA	**1.50**	NA	NA	NA	NA	NA	NA	NA	NA
	24 Jun 2020	N	4ft	BSS-4-21	570-31775-2	< 0.148	**2.52**	**125**	**0.563**	**0.521**	**19.4**	**8.32**	**13.4**	**1.75 B**	< 0.0133 H	< 0.131	**10.4**	< 0.299 L	< 0.0853	**0.423 J**	**39.2**	**44.2 B**
BSS-4-30	26 Jun 2020	N	4ft	BSS-4-30	570-32008-1	NA	**2.28**	NA	NA	NA	NA	NA	NA	**1.81**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-32	26 Jun 2020	N	4ft	BSS-4-32	570-32008-1	NA	**0.607 J**	NA	NA	NA	NA	NA	NA	**2.47**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-22	24 Jun 2020	N	5ft	BSS-5-22	570-31775-1	NA	**0.755 J**	NA	NA	NA	NA	NA	NA	**1.53**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-23	24 Jun 2020	N	5ft	BSS-5-23	570-31775-1	NA	**1.58**	NA	NA	NA	NA	NA	NA	**1.39**	NA	NA	NA	NA	NA	NA	NA	NA
	24 Jun 2020	N	5ft	BSS-5-23	570-31775-2	**0.453 JB**	**1.87**	**94.5**	**0.412**	**0.324 J**	**12.7**	**6.05**	**8.11**	**0.987 B**	< 0.0131 H	< 0.131	**7.04**	< 0.297 L	< 0.0849	< 0.150	**27.8**	**31.4 B**
BSS-5-26	26 Jun 2020	N	5ft	BSS-5-26	570-32008-1	NA	**3.19**	NA	NA	NA	NA	NA	NA	**0.753**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-33	30 Jun 2020	N	5ft	BSS-5-33	570-32191-1	NA	< 0.259	NA	NA	NA	NA	NA	NA	**1.20**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-34	30 Jun 2020	N	5ft	BSS-5-34	570-32191-1	NA	**11.9**	NA	NA	NA	NA	NA	NA	**18.7**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-35	30 Jun 2020	N	5ft	BSS-5-35	570-32191-1	NA	**0.520 J**	NA	NA	NA	NA	NA	NA	**0.404 J**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-6.5-31	30 Jun 2020	N	6.5ft	BSS-6.5-31	570-32191-1	NA	**1.32**	NA	NA	NA	NA	NA	NA	**7.70**	NA	NA	NA	NA	NA	NA	NA	NA
	30 Jun 2020	N	6.5ft	BSS-6.5-31	570-32191-2	< 0.145	**2.99**	**100**	**0.507**	**0.404 J**	**17.3**	**6.31**	**21.2**	**17.9 B**	< 0.0129 H	< 0.129	**17.2**	< 0.293 L	< 0.0836	**0.438 J**	**39.7**	**59.7 B**
BSS-6-17	23 Jun 2020	N	6ft	BSS-6-17	570-31676-1	NA	< 0.256	NA	NA	NA	NA	NA	NA	**1.34**	NA	NA	NA	NA	NA	NA	NA	NA
~~BSS-6-31~~	~~26 Jun 2020~~	~~N~~	~~6ft~~	~~BSS-6-31~~	~~570-32008-1~~	~~NA~~	~~**14.6**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~**3.67**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
~~BSS-6-4~~	~~18 Jun 2020~~	~~N~~	~~6ft~~	~~BSS-6-4~~	~~570-31325-1~~	~~NA~~	~~**12.6**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~**4.90**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
BSS-6-5	18 Jun 2020	N	6ft	BSS-6-5	570-31325-1	NA	**0.455 J**	NA	NA	NA	NA	NA	NA	**0.825**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-6-6	18 Jun 2020	N	6ft	BSS-6-6	570-31325-1	NA	**1.44**	NA	NA	NA	NA	NA	NA	**0.465 J**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-6-8	19 Jun 2020	N	6ft	BSS-6-8	570-31444-1	NA	**2.43**	NA	NA	NA	NA	NA	NA	**5.21 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-6-9	19 Jun 2020	N	6ft	BSS-6-9	570-31444-1	NA	< 0.250	NA	NA	NA	NA	NA	NA	**1.23 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-7-13	19 Jun 2020	N	7ft	BSS-7-13	570-31444-1	NA	**8.16**	NA	NA	NA	NA	NA	NA	**31.1 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-7-4	23 Jun 2020	N	7ft	BSS-7-4	570-31676-1	NA	**0.410 J**	NA	NA	NA	NA	NA	NA	**1.72**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-8.5-10	19 Jun 2020	N	8.5ft	BSS-8.5-10	570-31444-1	NA	< 0.267	NA	NA	NA	NA	NA	NA	**2.03 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-8.5-18	23 Jun 2020	N	8.5ft	BSS-8.5-18	570-31676-2	NA	< 0.253 L	NA	NA	NA	NA	NA	NA	**0.931**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1.5-4	19 Jun 2020	N	1.5ft	ESS-1.5-4	570-31444-1	NA	< 0.260	NA	NA	NA	NA	NA	NA	**1.50 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1.5-7	19 Jun 2020	N	1.5ft	ESS-1.5-7	570-31444-1	NA	**0.312 J**	NA	NA	NA	NA	NA	NA	**1.56 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1.5-8	23 Jun 2020	N	1.5ft	ESS-1.5-8	570-31676-1	NA	< 0.264	NA	NA	NA	NA	NA	NA	**1.42**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1.5-9	23 Jun 2020	N	1.5ft	ESS-1.5-9	570-31676-1	NA	**1.15**	NA	NA	NA	NA	NA	NA	**3.69**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1-3	19 Jun 2020	N	1ft	ESS-1-3	570-31444-1	NA	**2.05**	NA	NA	NA	NA	NA	NA	**7.60 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1-4	19 Jun 2020	N	1ft	ESS-1-4	570-31444-1	NA	**3.36**	NA	NA	NA	NA	NA	NA	**16.0 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-2-7	19 Jun 2020	N	2ft	ESS-2-7	570-31444-1	NA	**0.979**	NA	NA	NA	NA	NA	NA	**2.00 B**	NA	NA	NA	NA	NA	NA	NA	NA
~~ESS-3-1~~	~~18 Jun 2020~~	~~N~~	~~3ft~~	~~ESS-3-1~~	~~570-31325-1~~	~~NA~~	~~**31.5**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~**75.4**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
ESS-3-3	19 Jun 2020	N	3ft	ESS-3-3	570-31444-1	NA	**1.40**	NA	NA	NA	NA	NA	NA	**2.76 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-4.5-6	19 Jun 2020	N	4.5ft	ESS-4.5-6	570-31444-1	NA	**0.479 J**	NA	NA	NA	NA	NA	NA	**1.42 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-4-5	19 Jun 2020	N	4ft	ESS-4-5	570-31444-1	NA	< 0.251	NA	NA	NA	NA	NA	NA	**1.92 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-5-6	19 Jun 2020	N	5ft	ESS-5-6	570-31444-1	NA	< 0.268	NA	NA	NA	NA	NA	NA	**2.65 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-6.5-5	19 Jun 2020	N	6.5ft	ESS-6.5-5	570-31444-1	NA	< 0.266	NA	NA	NA	NA	NA	NA	**2.38 B**	NA	NA	NA	NA	NA	NA	NA	NA
NSS-3-11	18 Jun 2020	N	3ft	NSS-3-11	570-31325-1	NA	**2.21**	NA	NA	NA	NA	NA	NA	**0.763**	NA	NA	NA	NA	NA	NA	NA	NA
NSS-3-12	18 Jun 2020	N	3ft	NSS-3-12	570-31325-1	NA	**1.72**	NA	NA	NA	NA	NA	NA	**1.78**	NA	NA	NA	NA	NA	NA	NA	NA
NSS-3-13	18 Jun 2020	N	3ft	NSS-3-13	570-31325-1	NA	**1.33**	NA	NA	NA	NA	NA	NA	**1.64**	NA	NA	NA	NA	NA	NA	NA	NA
NSS-3-7	18 Jun 2020	N	3ft	NSS-3-7	570-31325-1	NA	**0.652 J**	NA	NA	NA	NA	NA	NA	**1.20**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-1.5-3	23 Jun 2020	N	1.5ft	SSS-1.5-3	570-31676-1	NA	**2.05**	NA	NA	NA	NA	NA	NA	**4.93**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-1-14	30 Jun 2020	N	1ft	SSS-1-14	570-32191-1	NA	**0.304 J**	NA	NA	NA	NA	NA	NA	**3.81**	NA	NA	NA	NA	NA	NA	NA	NA
	30 Jun 2020	N	1ft	SSS-1-14	570-32191-2	**0.376 JB**	**1.68**	**83.5**	**0.506**	**0.352 J**	**9.80**	**6.06**	**6.52**	**4.20 B**	< 0.0137 H	< 0.133	**7.07**	< 0.302 L	< 0.0861	**0.262 J**	**27.7**	**33.4 B**
~~SSS-1-8~~	~~26 Jun 2020~~	~~N~~	~~1ft~~	~~SSS-1-8~~	~~570-32008-1~~	~~NA~~	~~**13.9**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~**28.9**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
SSS-2-11	30 Jun 2020	N	2ft	SSS-2-11	570-32191-1	NA	**1.17**	NA	NA	NA	NA	NA	NA	**1.69**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-2-7	26 Jun 2020	N	2ft	SSS-2-7	570-32008-1	NA	**4.17**	NA	NA	NA	NA	NA	NA	**12.7**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-3-12	30 Jun 2020	N	3ft	SSS-3-12	570-32191-1	NA	**0.382 J**	NA	NA	NA	NA	NA	NA	**1.26**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-4.5-1	19 Jun 2020	N	4.5ft	SSS-4.5-1	570-31444-1	NA	< 0.260	NA	NA	NA	NA	NA	NA	**2.01 B**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-4-6	26 Jun 2020	N	4ft	SSS-4-6	570-32008-1	NA	**1.62**	NA	NA	NA	NA	NA	NA	**1.28**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-6-10	30 Jun 2020	N	6ft	SSS-6-10	570-32191-1	NA	**0.677 J**	NA	NA	NA	NA	NA	NA	**1.46**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-6-9	30 Jun 2020	N	6ft	SSS-6-9	570-32191-1	NA	**2.01**	NA	NA	NA	NA	NA	NA	**0.747**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-7-13	30 Jun 2020	N	7ft	SSS-7-13	570-32191-1	NA	**1.80**	NA	NA	NA	NA	NA	NA	**0.413 J**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-1.5-5	24 Jun 2020	N	1.5ft	WSS-1.5-5	570-31775-1	NA	**0.427 J**	NA	NA	NA	NA	NA	NA	**3.90**	NA	NA	NA	NA	NA	NA	NA	NA
	24 Jun 2020	N	1.5ft	WSS-1.5-5	570-31775-2	**0.519 JB**	**0.837**	**83.6**	**0.393**	**0.412 J**	**10.4**	**5.61**	**7.70**	**3.37 B**	< 0.0140 H	< 0.131	**6.31**	< 0.299 L	< 0.0853	**0.684 J**	**24.2**	**37.0 B**

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Table 1
Summary of Metals in Soil
Etiwanda Generating Station
Rancho Cucamonga, California

					Analyte	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
					Method	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B
					Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				USEPA RSL Industrial Soil THQ1.0 May 2020		470	NA	220,000	2,300	980	1,800,000^	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
				CA DTSC Note 3 Soil C/I Combined June 2020		NS	12*	NS	230	780	NS	NS	NS	320	4.4	NS	11,000	NS	NS	NS	NS	NS
Location ID	Sample Date	Sample Type	Depth	Sample ID	Lab SDG																	
WSS-1.5-6	24 Jun 2020	N	1.5ft	WSS-1.5-6	570-31775-1	NA	**0.897**	NA	NA	NA	NA	NA	NA	**2.66**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-2-2	24 Jun 2020	N	2ft	WSS-2-2	570-31775-1	NA	**2.10**	NA	NA	NA	NA	NA	NA	**7.75**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-2-3	24 Jun 2020	N	2ft	WSS-2-3	570-31775-1	NA	**1.31**	NA	NA	NA	NA	NA	NA	**1.57**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-2-4	24 Jun 2020	N	2ft	WSS-2-4	570-31775-1	NA	**1.06**	NA	NA	NA	NA	NA	NA	**1.81**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-2-5	26 Jun 2020	N	2ft	WSS-2-5	570-32008-1	NA	**1.38**	NA	NA	NA	NA	NA	NA	**1.67**	NA	NA	NA	NA	NA	NA	NA	NA
	26 Jun 2020	N	2ft	WSS-2-5	570-32008-2	**0.415 JB**	**0.435 J**	**92.9**	**0.467**	**0.411 J**	**14.0**	**6.58**	**10.4**	**1.78 B**	< 0.0133 H	< 0.134	**8.47**	< 0.305 L	< 0.0870	**0.605 J**	**29.6**	**35.1 B**
WSS-2-7	30 Jun 2020	N	2ft	WSS-2-7	570-32191-1	NA	< 0.260	NA	NA	NA	NA	NA	NA	**0.902**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-3-6	30 Jun 2020	N	3ft	WSS-3-6	570-32191-1	NA	< 0.258	NA	NA	NA	NA	NA	NA	**0.425 J**	NA	NA	NA	NA	NA	NA	NA	NA
LFI-1-BS-1	07-May-20	N	5ft	LFI-1-BS-5-1	570-27652-1	**0.539 JB**	**2.75**	**79.0**	**0.281**	**0.193 J**	**9.40**	**5.03**	**13.0**	**2.23**	< 0.00597	< 0.133	**5.68**	**0.689 JB**	**0.120 JB**	< 0.153	**22.0**	**25.0**
~~LFI-1-ESS-4~~	~~07-May-20~~	~~N~~	~~2.5ft~~	~~LFI-1-ESS-2.5-4~~	~~570-27652-1~~	~~< 0.152~~	~~**122**~~	~~**305**~~	~~**0.548**~~	~~**1.45**~~	~~**363**~~	~~**5.02**~~	~~**1,770**~~	~~**321**~~	~~**0.107**~~	~~**2.77 B**~~	~~**26.9**~~	~~**0.611 JB**~~	~~**0.368 B**~~	~~< 0.155~~	~~**65.5**~~	~~**589**~~
LFI-1-NSS-1	07-May-20	N	2.5ft	LFI-1-NSS-2.5-1	570-27652-1	< 0.145	**1.57**	**83.0**	**0.302**	**0.203 J**	**8.35**	**4.73**	**14.1**	**1.91**	< 0.00568	< 0.129	**5.18**	< 0.293	**0.128 JB**	**0.238 J**	**21.6**	**26.9**
~~LFI-1-SSS-3~~	~~07-May-20~~	~~N~~	~~2.5ft~~	~~LFI-1-SSS-2.5-3~~	~~570-27652-1~~	~~< 0.151~~	~~**340**~~	~~**538**~~	~~**0.922**~~	~~**2.84**~~	~~**749**~~	~~**7.92**~~	~~**4,560**~~	~~**1,100**~~	~~**0.236**~~	~~**6.82 B**~~	~~**40.0**~~	~~**2.22 B**~~	~~**1.41 B**~~	~~< 0.154 L~~	~~**125**~~	~~**883**~~
LFI-1-WSS-2	07-May-20	N	2.5ft	LFI-1-WSS-2.5-2	570-27652-1	< 0.148	**1.07**	**76.1**	**0.266**	**0.196 J**	**8.59**	**4.31**	**12.3**	**1.58**	< 0.00559	< 0.131	**5.28**	**0.530 JB**	< 0.0849	**0.312 J**	**19.9**	**22.8**
LFI-3-BS-1	06-May-20	N	8ft	LFI-3-BS-8-1	570-27534-1	< 0.151	**0.659 J**	**50.8**	**0.225 J**	< 0.137	**5.74**	**3.26**	**4.25**	**1.27 B**	**0.0725 J**	< 0.134	**3.97**	< 0.305 L	< 0.0870	**0.661 J**	**15.5**	**19.3**
LFI-3-BS-2	06-May-20	N	8ft	LFI-3-BS-8-2	570-27534-1	**0.251 J**	**0.735 J**	**56.7**	**0.251 J**	< 0.138	**7.14**	**3.63**	**7.11**	**1.65 B**	**0.0581 J**	< 0.135	**4.76**	< 0.306 L	< 0.0874	**0.440 J**	**18.3**	**19.9**
LFI-3-BS-3	07-May-20	N	8ft	LFI-3-BS-8-3	570-27655-1	< 0.149	**1.48**	**78.2**	**0.338**	**0.196 J**	**11.0**	**4.27**	**13.5**	**2.37**	< 0.00559	**0.134 JB**	**8.29**	< 0.300 L	**0.109 JB**	**0.253 J**	**27.3**	**30.6**
LFI-3-BS-4	07-May-20	N	8ft	LFI-3-BS-8-4	570-27655-1	**0.167 JB**	**1.25**	**42.0**	**0.139 J**	< 0.136	**4.31**	**2.43**	**8.67**	**1.43**	< 0.00559	< 0.133	**3.17**	< 0.302 L	**0.113 JB**	**0.440 J**	**11.2**	**13.6**
LFI-3-BS-5	07-May-20	N	8ft	LFI-3-BS-8-5	570-27655-1	< 0.146	**1.25**	**44.4**	**0.162 J**	< 0.132	**4.87**	**2.59**	**9.42**	**1.90**	< 0.00597	< 0.129	**3.42**	< 0.294	**0.105 JB**	**0.415 J**	**12.3**	**14.4**
LFI-3-BS-6	07-May-20	N	8ft	LFI-3-BS-8-6	570-27655-1	< 0.150	**1.30**	**35.2**	< 0.138	< 0.136	**3.43**	**1.95**	**6.85**	**1.59**	< 0.00559	**0.148 JB**	**2.44**	< 0.302 L	**0.181 JB**	**0.284 J**	**8.72**	**10.9**
LFI-3-ESS-3	07-May-20	N	5ft	LFI-3-ESS-5-3	570-27655-1	< 0.145	**2.89**	**70.8**	**0.298**	**0.210 J**	**9.85**	**4.41**	**15.4**	**7.15**	**0.0103 J**	**0.335 B**	**7.80**	< 0.291	< 0.0832	**0.438 J**	**22.3**	**47.7**
LFI-3-NSS-4	07-May-20	N	5.5ft	LFI-3-NSS-5.5-4	570-27655-1	**0.721 JB**	**2.25**	**79.0**	**0.279**	**0.184 J**	**8.60**	**4.58**	**11.0**	**1.97**	< 0.00607	< 0.133	**5.15**	< 0.302 L	**0.0902 JB**	< 0.153	**20.6**	**23.4**
LFI-3-SSS-1	06-May-20	N	5ft	LFI-3-SSS-5-1	570-27534-1	< 0.150	**5.60**	**122**	**0.477**	**0.243 J**	**23.5**	**6.90**	**72.9**	**8.97 B**	**0.0389 J**	< 0.133	**10.8**	< 0.302 L	< 0.0861	< 0.153	**34.8**	**73.3**
~~LFI-3-WSS-2~~	~~06-May-20~~	~~N~~	~~5ft~~	~~LFI-3-WSS-5-2~~	~~570-27534-1~~	~~< 0.148~~	~~**379**~~	~~**318**~~	~~**1.21**~~	~~**9.64**~~	~~**808**~~	~~**19.8**~~	~~**6,460**~~	~~**1,360 B**~~	~~**0.338**~~	~~**10.7**~~	~~**85.4**~~	~~< 0.297 L~~	~~**1.97 B**~~	~~< 0.150 L~~	~~**132**~~	~~**2,710**~~

Notes:
Results in mg/kg.
< = Compound not detected. Reportable detection limit shown.
Bolded values indicate concentrations above the reportable detection limit.
Shaded values indicate concentrations above the standard.
** = Southern California background concentration of 12 mg/kg used.*
^ = Industrial RSL for Chromium III used in absence of Total Chromium Industrial RSL.
~~Strikethrough~~ indicates sample was over-excavated due to a screening level exceedance.
Samples with two sets of results are the same sample analyzed on separate dates.

Qualifiers - Inorganic:
B = Compound was found in the blank and sample.
J = Result is less than the reporting limit, but greater than or equal to the method detection limit; concentration is an approximate value.
L = A negative instrument reading had an absolute value greater than the reporting limit.
H = Sample was prepped or analyzed beyond the specified holding time.

SW6010B analyses performed by Eurofins Calscience Environmental Laboratories, Inc.
SW7471A analyses performed by Eurofins Calscience Environmental Laboratories, Inc.
CA DTSC Note 3 Soil C/I Combined June 2020 = CA DTSC Note 3 C/I Soil Screening Level combined as minimum of Cancer/Noncancer Endpoint, updated June 2020
EPA RSL Industrial Soil THQ1.0 May 2020 = RSL Industrial Soil (TR=1E 06, HQ=1) May 2020

Abbreviations:
CA DTSC = California Department of Toxic Substances Control
C/I = Commercial/Industrial
ft = Feet
mg/kg = Milligrams per kilogram
NA = Not Applicable
NS = No Standard
RSL = Regional Screening Level
USEPA = U.S. Environmental Protection Agency

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Table 2
Summary of VOCs in Soil
Etiwanda Generating Station
Rancho Cucamonga, California

	Location ID	BSS-5-23	BSS-8.5-18
	Sample Date	6/24/2020	6/23/2020
	Sample Type	N	N
	Depth	5 ft	8.5 ft
Analyte	CA DTSC Note 3 Soil C/I Combined June 2020		
SW8260B			
1,1,1,2-Tetrachloroethane	8,800	< 0.23	< 0.26
1,1,1-Trichloroethane	7,200,000	< 0.22	< 0.24
1,1,2,2-Tetrachloroethane	2,700	< 0.33	< 0.37
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	NS	< 0.34	< 0.38 *
1,1,2-Trichloroethane	NS	< 0.34	< 0.38
1,1-Dichloroethane	16,000	< 0.20	< 0.23
1,1-Dichloroethene	350,000	< 0.34	< 0.37
1,1-Dichloropropene	NS	< 0.32	< 0.35
1,2,3-Trichlorobenzene	300,000	< 0.88	< 0.98
1,2,3-Trichloropropane	21	< 0.80	< 0.89
1,2,4-Trichlorobenzene	35,000	< 0.30	< 0.33
1,2,4-Trimethylbenzene	NS	< 0.57	< 0.63
1,2-Dibromo-3-chloropropane	57	< 1.7	< 1.9
1,2-Dichlorobenzene	NS	< 0.22	< 0.25
1,2-Dichloroethane	NS	< 0.30	< 0.34
1,2-Dichloropropane	NS	< 0.42	< 0.47
1,3,5-Trimethylbenzene	NS	< 0.53	< 0.59
1,3-Dichlorobenzene	NS	< 0.17	< 0.19
1,3-Dichloropropane	2,200,000	< 0.24	< 0.27
1,4-Dichlorobenzene	NS	< 0.22	< 0.24
2,2-Dichloropropane	NS	< 0.32	< 0.36
2-Butanone	NS	< 3.7	< 4.1
2-Hexanone	NS	< 1.7	< 1.9
4-Chlorotoluene	2,300,000	< 0.21	< 0.23
4-Isopropyltoluene	NS	< 0.61	< 0.68
4-Methyl-2-pentanone	NS	< 4.2	< 4.7
Acetone	NS	**18 J**	**19 J**
Benzene	1,400	**0.76 J**	**0.46 J**
Bromobenzene	NS	< 0.20	< 0.23
Bromodichloromethane	1,300	< 0.23	< 0.25
Bromoform	86,000	< 0.77	< 0.86
Carbon disulfide	NS	**0.43 J**	< 0.33
Carbon tetrachloride	2,900	< 0.27	< 0.30
Chlorobenzene	NS	< 0.22	< 0.24
Chlorobromomethane	NS	< 0.67	< 0.74
Chloroethane	NS	< 1.4	< 1.6
Chloroform	NS	< 0.23	< 0.26
cis-1,2-Dichloroethene	84,000	< 0.27	< 0.30
cis-1,3-Dichloropropene	NS	< 0.25	< 0.27
Dibromochloromethane	4,100	< 0.55	< 0.61
Dibromomethane	NS	< 0.75	< 0.83
Dichlorodifluoromethane (Freon 12)	NS	< 0.43	< 0.48
Ethylbenzene	NS	< 0.15	< 0.16
Ethylene dibromide	160	< 0.25	< 0.28
Isopropylbenzene (Cumene)	NS	< 0.53	< 0.59
m,p-Xylenes	NS	< 0.26	< 0.29
Methyl bromide	NS	< 9.1	< 10
Methyl chloride	NS	< 0.29	< 0.33
Methyl tert-butyl ether	NS	< 0.29	< 0.32
Methylene chloride	26,000	< 1.3	< 1.4
Naphthalene	6,500	< 0.79	< 0.88
n-Butylbenzene	18,000,000	< 0.15	< 0.17
n-Propylbenzene	NS	< 0.49	< 0.54
o-Chlorotoluene (2-chlorotoluene)	2,500,000	< 0.22	< 0.25
o-Xylene	NS	< 0.54	< 0.60
sec-Butylbenzene	12,000,000	< 0.56	< 0.62
Styrene	32,000,000	< 0.59	< 0.65
tert-Butylbenzene	12,000,000	< 0.15	< 0.16
Tetrachloroethene	2,700	< 0.20	< 0.23
Toluene	5,300,000	**0.53 J**	< 0.56
trans-1,2-Dichloroethene	600,000	< 0.49	< 0.55

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Table 2
Summary of VOCs in Soil
Etiwanda Generating Station
Rancho Cucamonga, California

Analyte	Location ID	BSS-5-23	BSS-8.5-18
	Sample Date	6/24/2020	6/23/2020
	Sample Type	N	N
	Depth	5 ft	8.5 ft
	CA DTSC Note 3 Soil C/I Combined June 2020		
trans-1,3-Dichloropropene	NS	< 0.59	< 0.65
Trichloroethene	NS	< 0.29	< 0.32
Trichlorofluoromethane (Freon 11)	5,400,000	< 0.36	< 0.40
Vinyl acetate	NS	< 4.6	< 5.1
Vinyl chloride	150	< 0.49	< 0.54

Notes:
Results in micrograms per kilogram.
< = Compound not detected. Reportable detection limit shown.
Bolded values indicate concentrations above the reportable detection limit.
** = LCS or LCSD is outside acceptance limits.*

Qualifiers:
J = Result is less than the reporting limit, but greater than or equal to the method detection limit; Concentration is an approximate value.

CA DTSC Note 3 Soil C/I Combined June 2019 = CA DTSC Note 3 C/I Soil Screening Level combined as minimum of Cancer/Noncancer Endpoint, updated June 2020.
All analyses performed by Eurofins Calscience Environmental Laboratories, Inc. (Calscience).

Abbreviations:
CA DTSC = California Department of Toxic Substances Control
C/I = Commercial/Industrial
ft = Feet
LCS =Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
N = Normal environmental sample
VOC = Volatile organic compound

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Table 3
Summary of TPH in Soil
Etiwanda Generating Station
Rancho Cucamonga, California

Analyte	Location ID Sample Date Sample Type Depth	BSS-5-23 24-Jun-20 N 5 ft	BSS-8.5-18 23-Jun-20 N 8.5 ft
Method SW8015B			
C11-C12-Total		< 3.6	< 3.5
C13-C14-Total		< 3.6	< 3.5
C15-C16-Total		< 3.6	< 3.5
C17-C18-Total		< 3.6	< 3.5
C17-C44-Total		< 3.8	< 3.7
C19-C20-Total		< 3.6	< 3.5
C21-C22-Total		< 3.6	< 3.5
C23-C24-Total		< 3.6	< 3.5
C25-C28-Total		< 3.6	< 3.5
C29-C32-Total		< 3.6	< 3.5
C33-C36-Total		< 3.6	< 3.5
C37-C40-Total		< 3.6	< 3.5
C41-C44-Total		< 3.6	< 3.5
C6		< 3.6	< 3.5
C6-C44-Total		< 3.6	< 3.5
C7		< 3.6	< 3.5
C-8		< 3.6	< 3.5
C9-C10-Total		< 3.6	< 3.5
Diesel Range Organics (C10-C28)		< 3.6	< 3.5
Diesel Range Organics (C13-C22)		< 3.6	< 3.5

Notes:
Results in mg/kg.
< = Compound not detected. Reportable detection limit shown.
Bolded values indicate concentrations above the reportable detection limit.

All analyses performed by Eurofins Calscience Environmental Laboratories, Inc.

Abbreviations:
ft = Feet
N = Normal environmental sample
TPH = Total petroleum hydrocarbon

ATTACHMENT A SITE PHOTOS



Photo 1: Excavation Area Pre-work (looking North) - 23 April 2020



Photo 2: LFI-1 Excavation - 07 May 2020



Photo 3: LFI-3 Excavation - 07 May 2020



Photo 4: Excavation - 28 May 2020



Photo 5: Excavation - 18 June 2020



Photo 6: Final Excavation Northern Portion (looking Northwest) - 01 July 2020



Photo 7: Final Excavation Southern Portion - 30 June 2020



Photo 8: Final Excavation Northern Portion with sloping - 06 July 20



Photo 9: Final Excavation Southern Portion with sloping - 06 July 2020



Photo 10: Final Excavation Southern Portion with sloping - 06 July 20

Appendix H

Historical Sources

8996 Etiwanda Avenue

8996 Etiwanda Avenue

Rancho Cucamonga, CA 91739

Inquiry Number: 6184297.11

September 08, 2020

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

09/08/20

Site Name:	Client Name:
8996 Etiwanda Avenue	Path Forward Partners
8996 Etiwanda Avenue	505 14th Street #1230
Rancho Cucamonga, CA 9173	Oakland, CA 94612
EDR Inquiry # 6184297.11	Contact: Karen Smith

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: August 29, 1990	USDA
1985	1"=500'	Flight Date: July 28, 1985	USDA
1975	1"=500'	Flight Date: August 01, 1975	USGS
1966	1"=500'	Flight Date: April 16, 1966	USGS
1959	1"=500'	Flight Date: October 15, 1959	USDA
1953	1"=500'	Flight Date: February 02, 1953	USDA
1949	1"=500'	Flight Date: May 21, 1949	USDA
1938	1"=500'	Flight Date: May 27, 1938	USDA

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INQUIRY #: 6184297.11

YEAR: 2016

= 500'

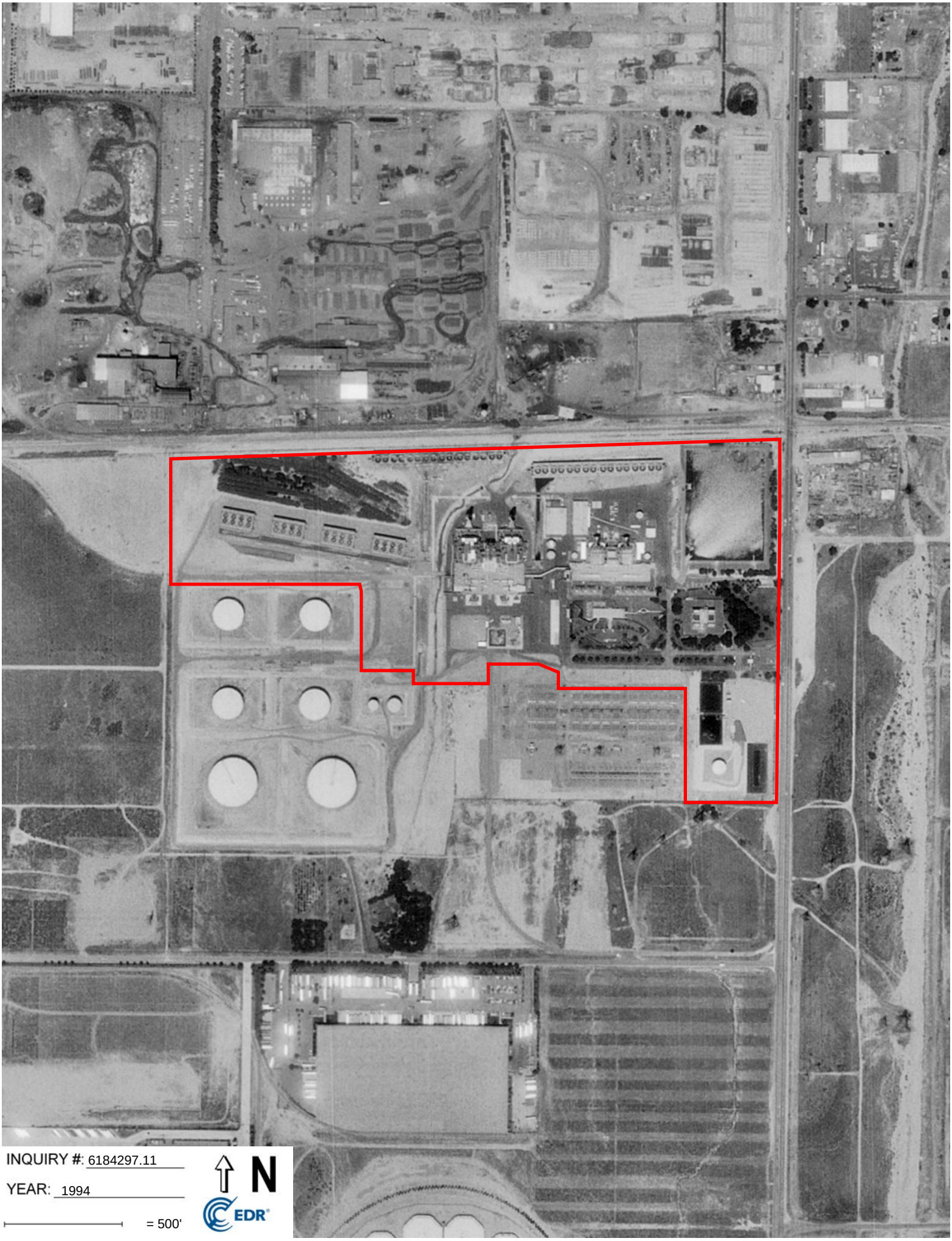
N

EDR

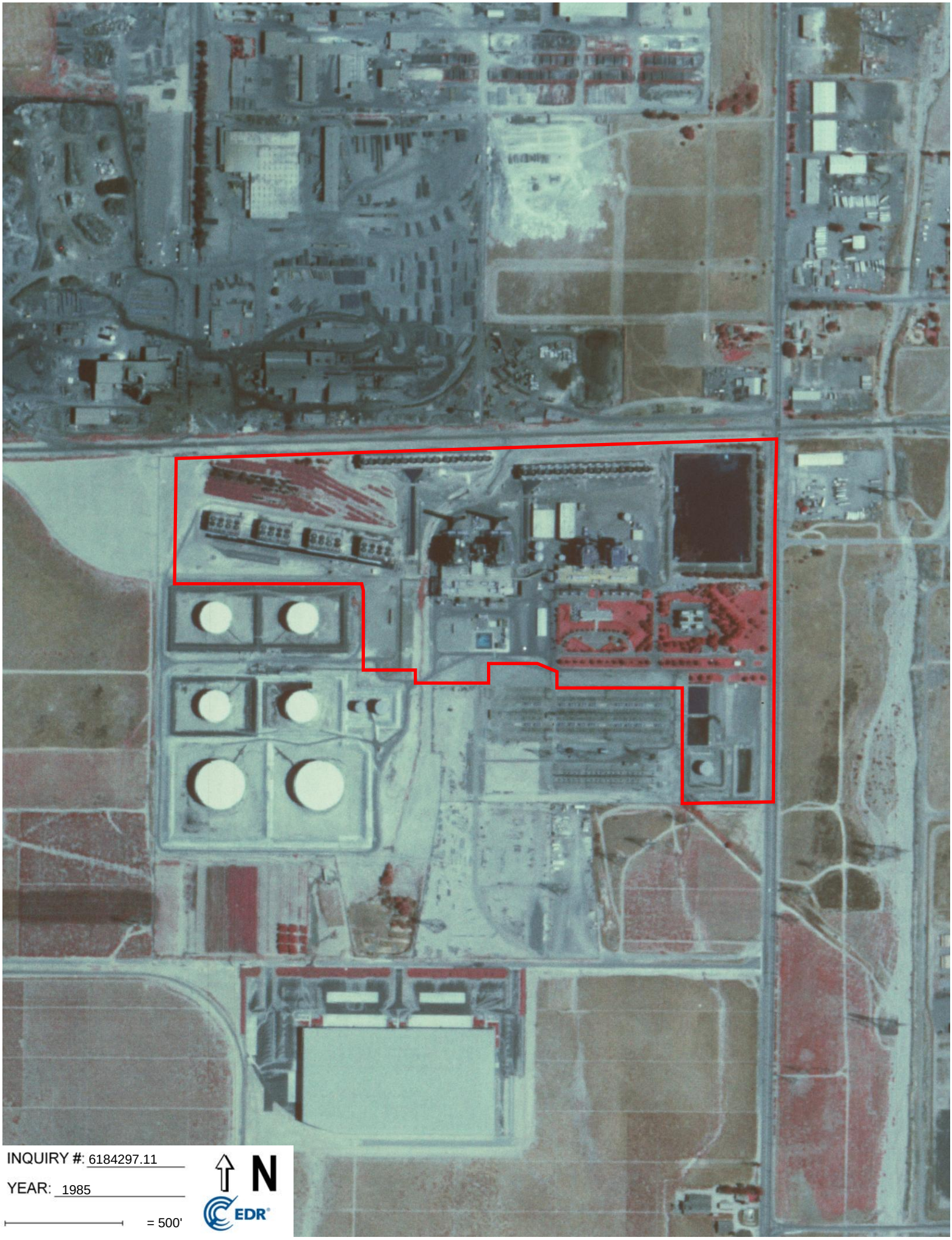

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YEAR: 2012
= 500'
N
EDR


INQUIRY #: 6184297.11
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 6184297.11
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 6184297.11
YEAR: 1994
= 500'
N
EDR


INQUIRY #: 6184297.11
YEAR: 1990
= 500'
N
EDR



INQUIRY #: 6184297.11

YEAR: 1985

= 500'

N

EDR



INQUIRY #: 6184297.11

YEAR: 1975

= 500'

N

EDR


INQUIRY #: 6184297.11
YEAR: 1966
= 500'
N
EDR



INQUIRY #: 6184297.11

YEAR: 1959

= 500'

N

EDR



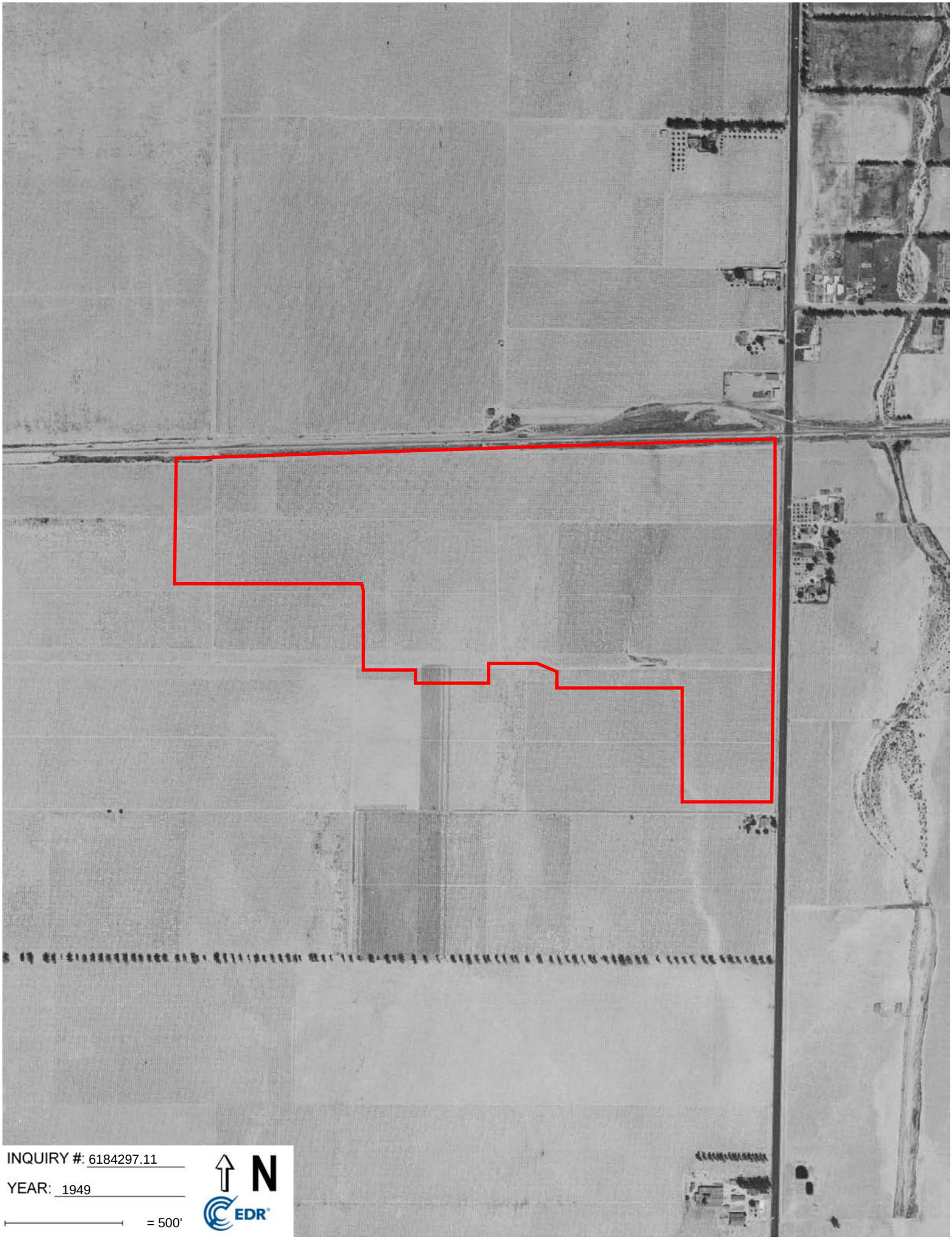
INQUIRY #: 6184297.11

YEAR: 1953

= 500'

N

EDR



INQUIRY #: 6184297.11

YEAR: 1949

= 500'

N

EDR



INQUIRY #: 6184297.11

YEAR: 1938

= 500'

N

EDR

8996 Etiwanda Avenue

8996 Etiwanda Avenue

Rancho Cucamonga, CA 91739

Inquiry Number: 6184297.4

September 08, 2020

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

09/08/20

Site Name:

8996 Etiwanda Avenue
8996 Etiwanda Avenue
Rancho Cucamonga, CA 9173
EDR Inquiry # 6184297.4

Client Name:

Path Forward Partners
505 14th Street #1230
Oakland, CA 94612
Contact: Karen Smith

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Path Forward Partners were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 124-108-100
Project: 8996 Etiwanda Avenue

Coordinates:

Latitude:	34.09114 34° 5' 28" North
Longitude:	-117.527679 -117° 31' 40" West
UTM Zone:	Zone 11 North
UTM X Meters:	451321.84
UTM Y Meters:	3772387.12
Elevation:	1122.71' above sea level

Maps Provided:

2012	1941
1981	1903
1976	1900
1973	1897
1966	
1954	
1953	
1944	

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Topo Sheet Key

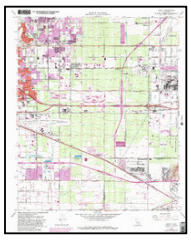
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



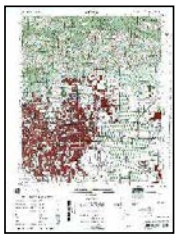
Guasti
2012
7.5-minute, 24000

1981 Source Sheets



Guasti
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1976 Source Sheets



ONTARIO
1976
15-minute, 50000

1973 Source Sheets



Guasti
1973
7.5-minute, 24000
Aerial Photo Revised 1973

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1966 Source Sheets



Guasti
1966
7.5-minute, 24000
Aerial Photo Revised 1966

1954 Source Sheets



Ontario
1954
15-minute, 62500

1953 Source Sheets



Guasti
1953
7.5-minute, 24000
Aerial Photo Revised 1952

1944 Source Sheets



CUCAMONGA
1944
15-minute, 50000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1941 Source Sheets



GUASTI VICINITY
1941
7.5-minute, 31680

1903 Source Sheets



Cucamonga
1903
15-minute, 62500

1900 Source Sheets



Cucamonga
1900
15-minute, 62500

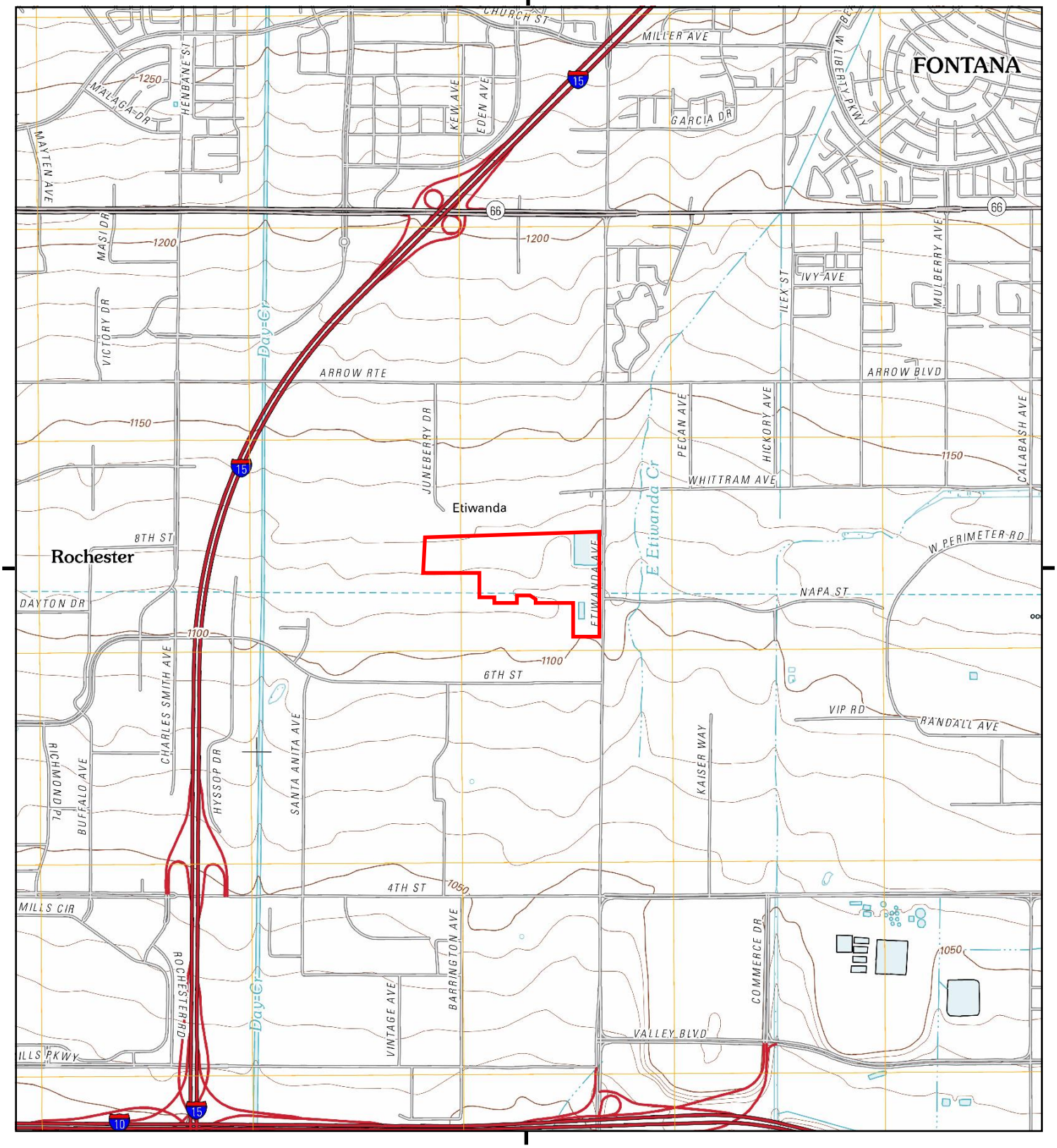
1897 Source Sheets



Cucamonga
1897
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

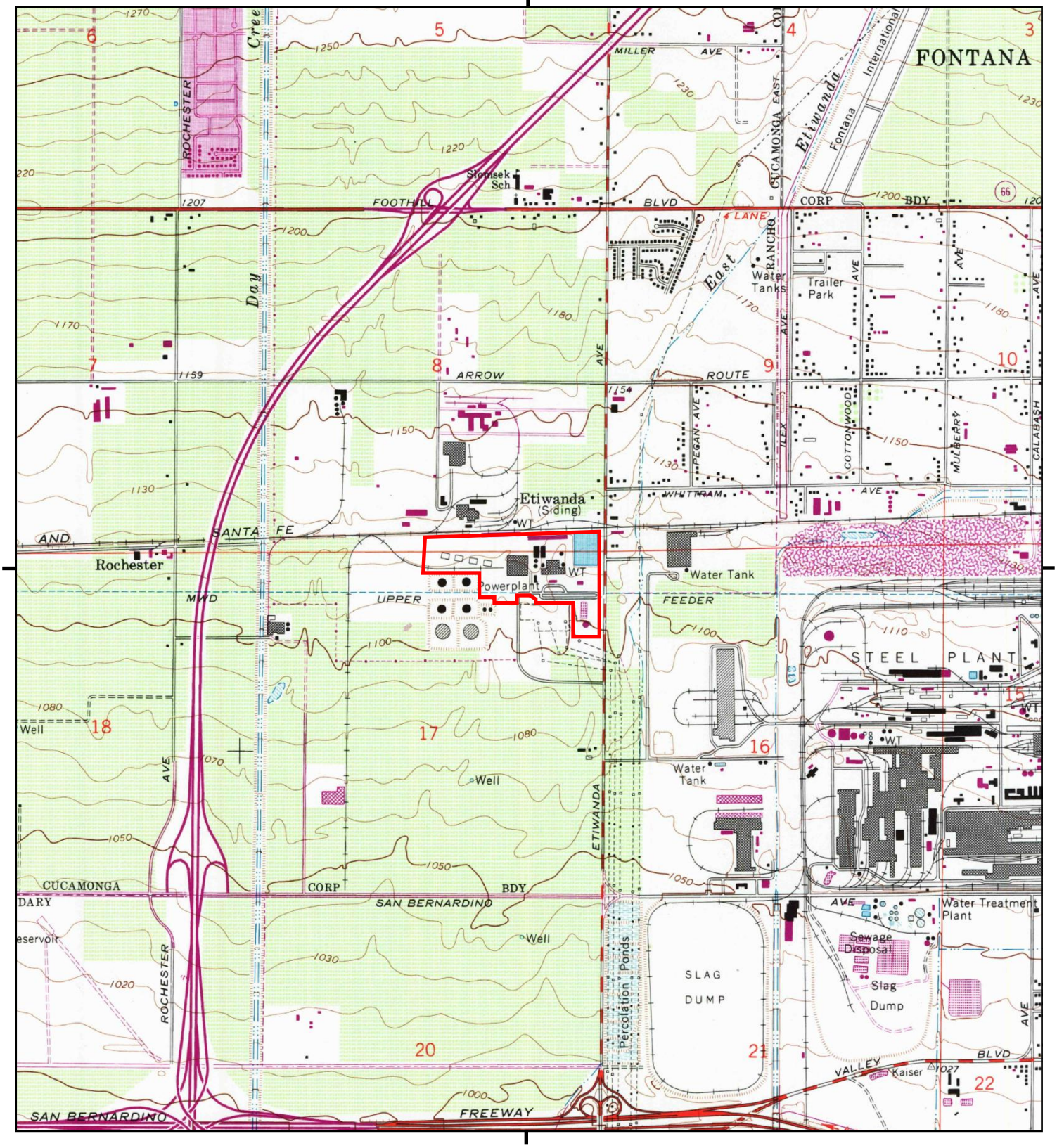
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Guasti, 2012, 7.5-minute

SITE NAME: 8996 Etiwanda Avenue
ADDRESS: 8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739
CLIENT: Path Forward Partners

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

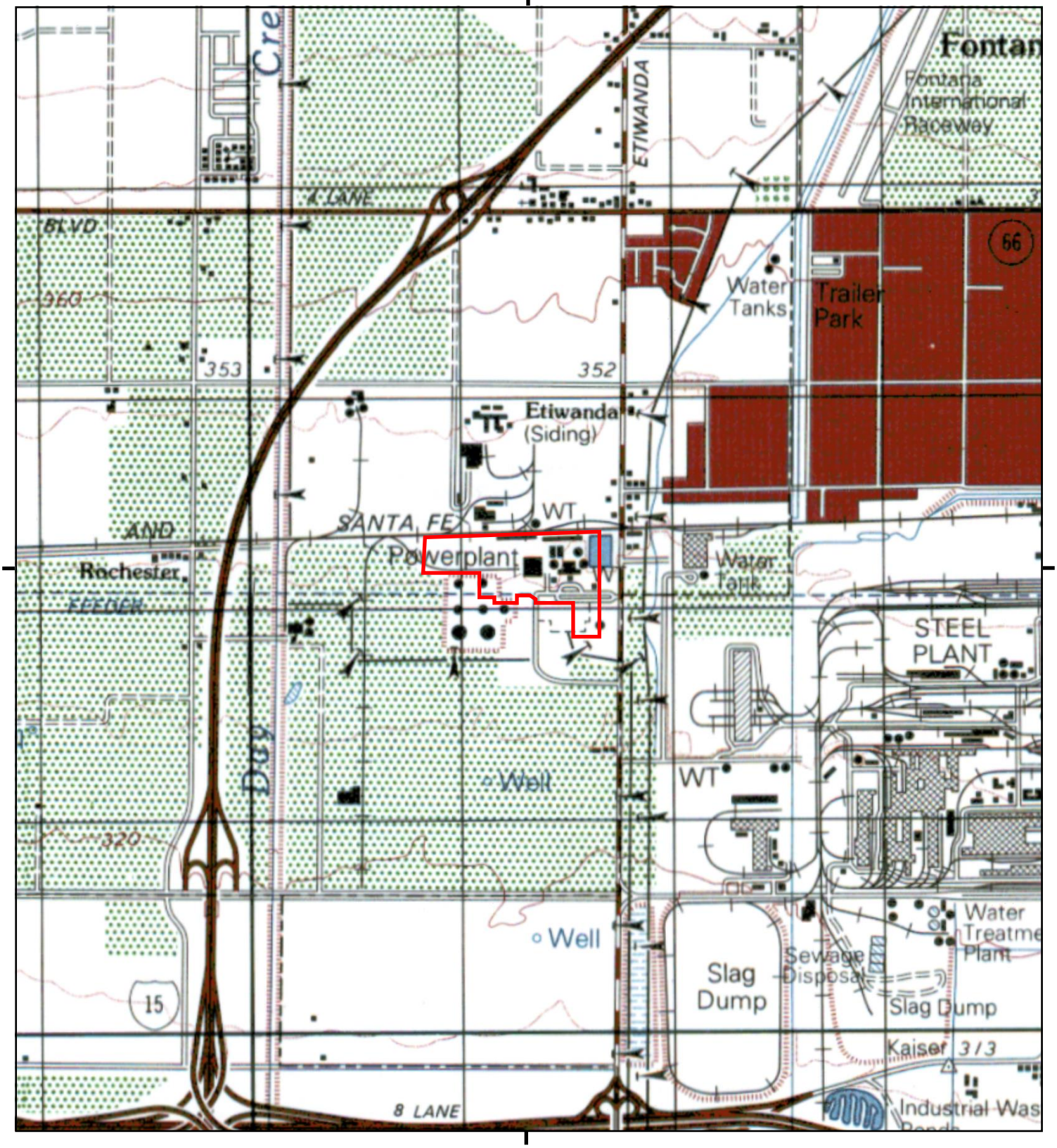
TP, Guasti, 1981, 7.5-minute

SITE NAME: 8996 Etiwanda Avenue
ADDRESS: 8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739
CLIENT: Path Forward Partners

N

Historical Topo Map

1976



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

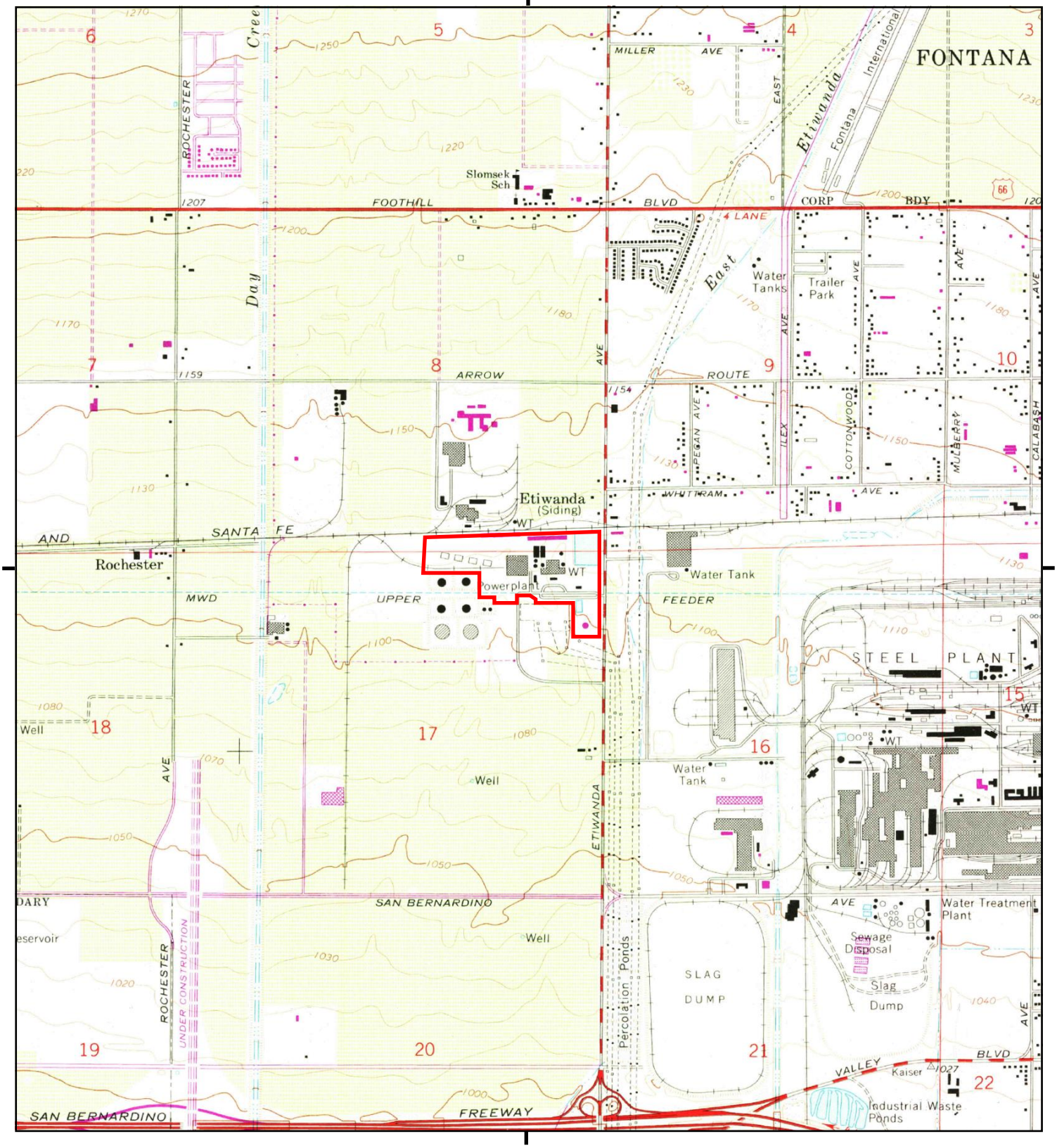
TP, ONTARIO, 1976, 15-minute

SITE NAME: 8996 Etiwanda Avenue
ADDRESS: 8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739
CLIENT: Path Forward Partners

N

Historical Topo Map

1973



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

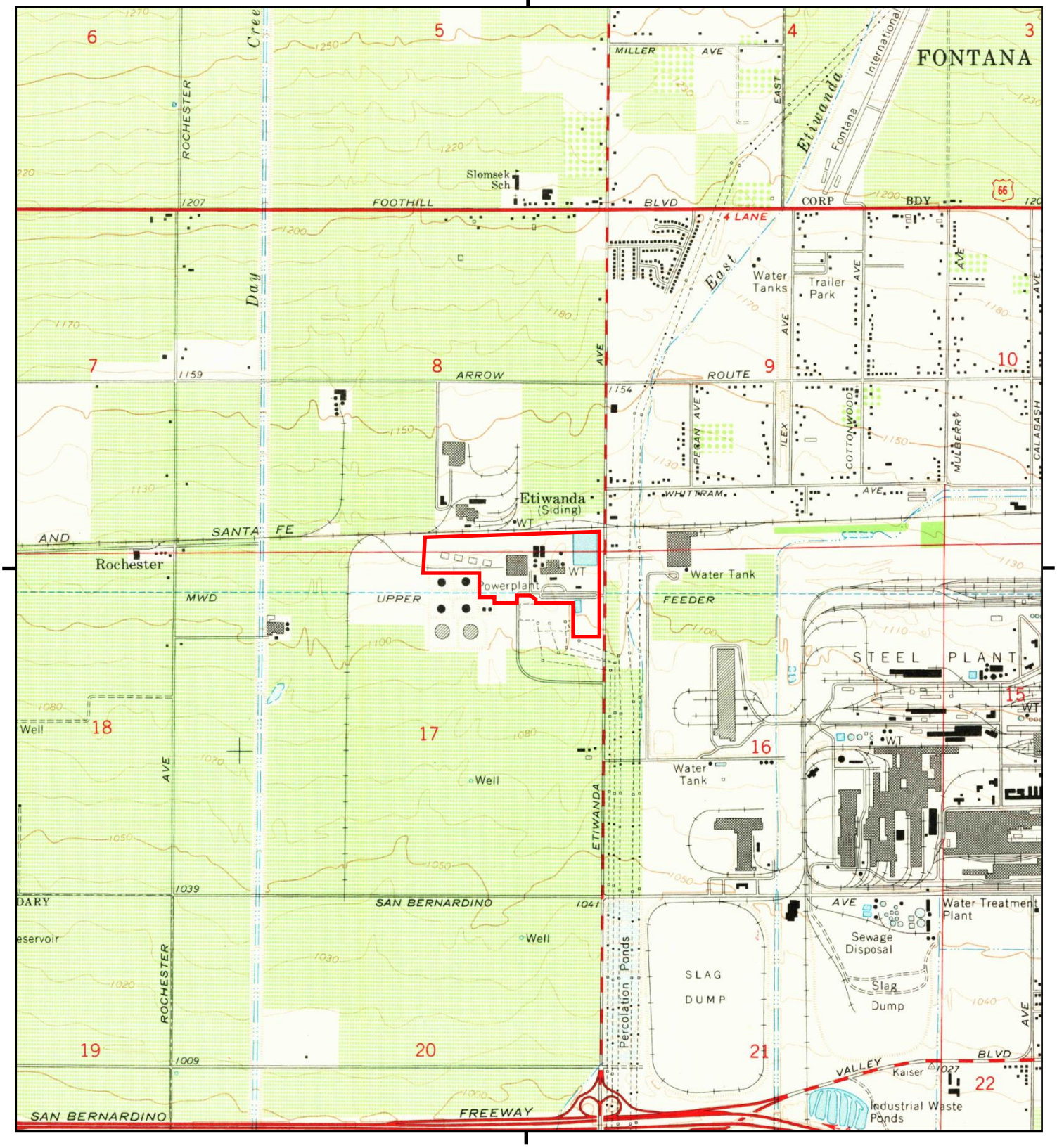
TP, Guasti, 1973, 7.5-minute

SITE NAME: 8996 Etiwanda Avenue
ADDRESS: 8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739
CLIENT: Path Forward Partners

N

Historical Topo Map

1966



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

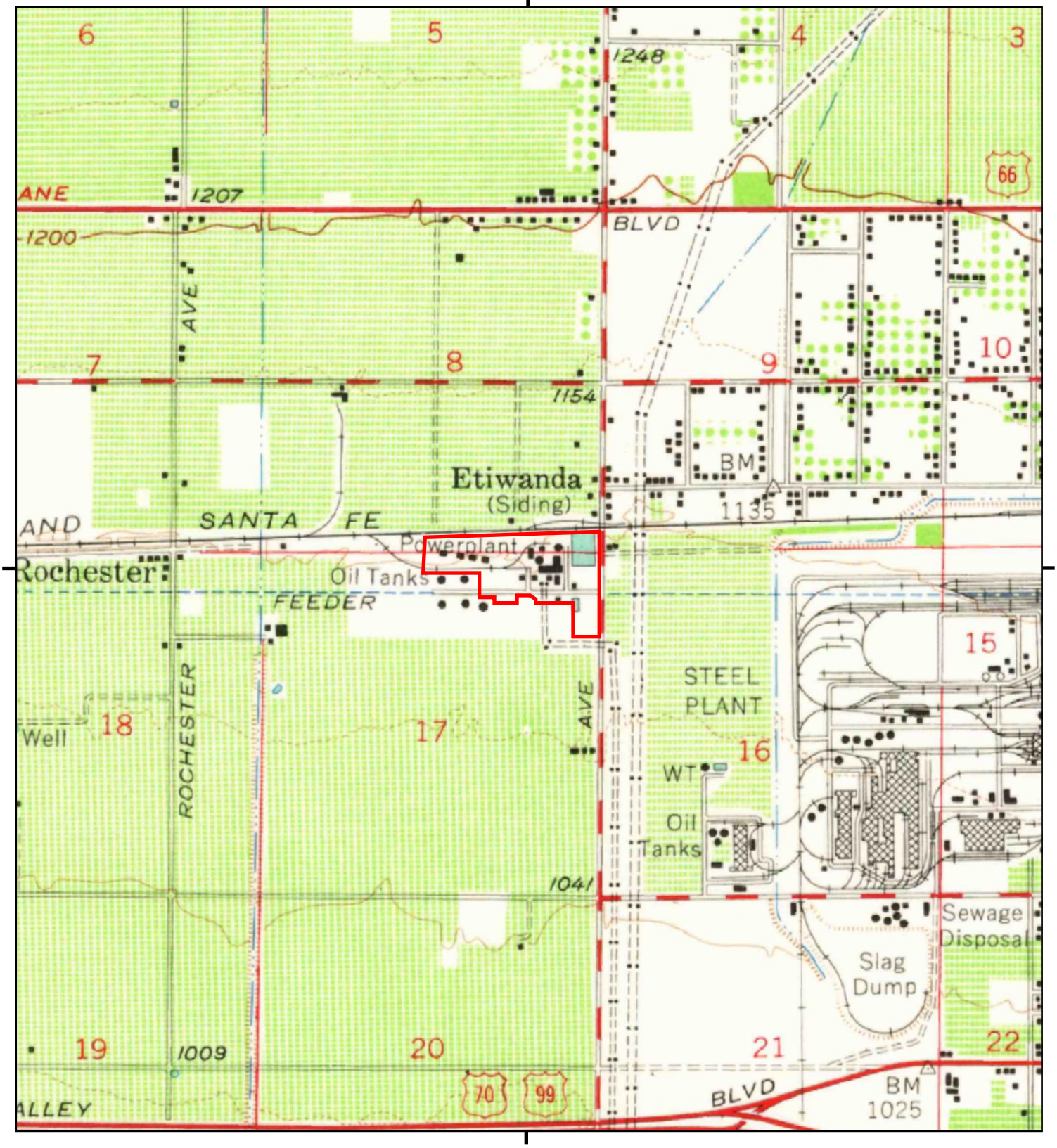
TP, Guasti, 1966, 7.5-minute

SITE NAME: 8996 Etiwanda Avenue
ADDRESS: 8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739
CLIENT: Path Forward Partners

N

Historical Topo Map

1954



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

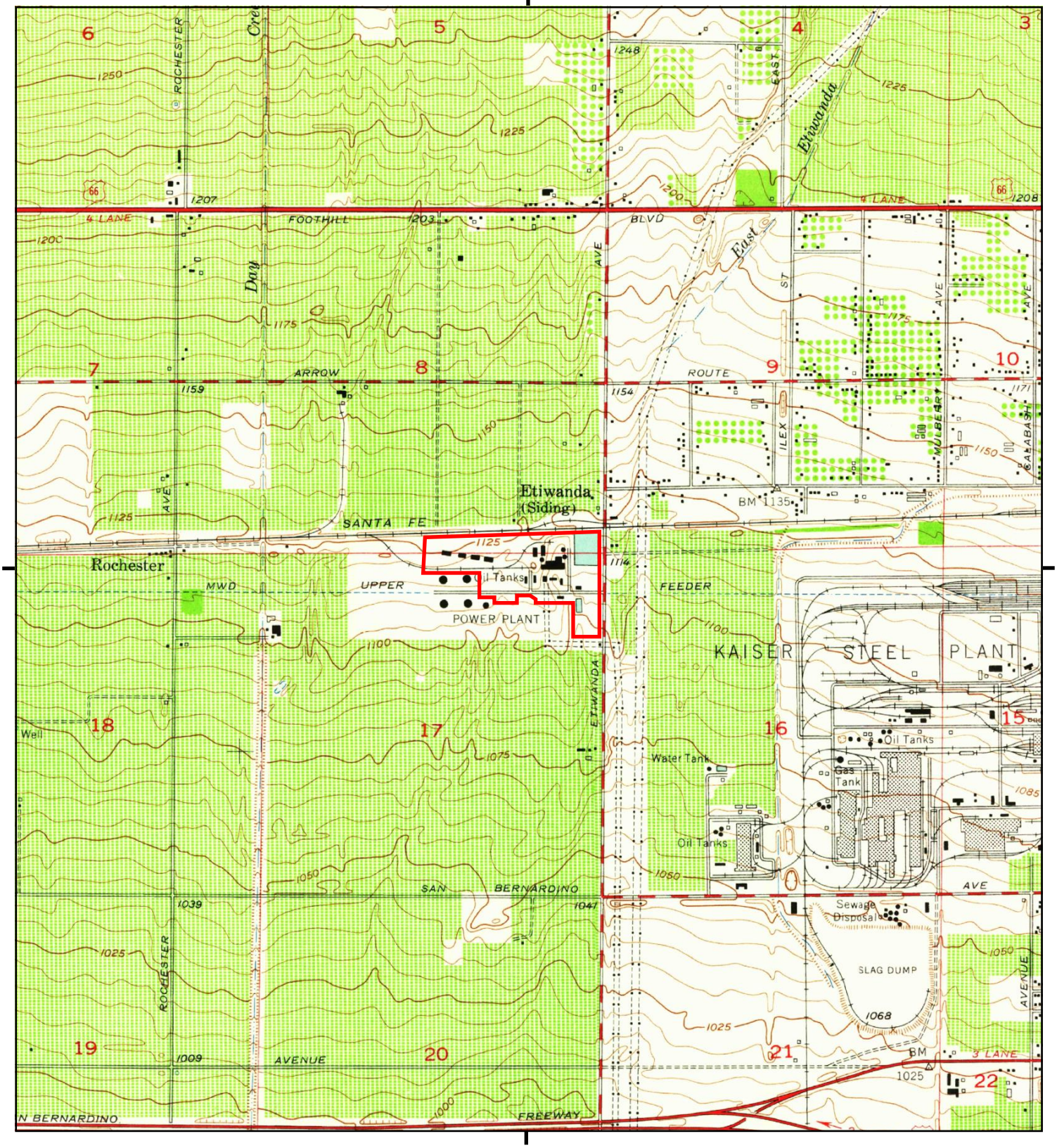
TP, Ontario, 1954, 15-minute

SITE NAME: 8996 Etiwanda Avenue
ADDRESS: 8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739
CLIENT: Path Forward Partners

N

Historical Topo Map

1953



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

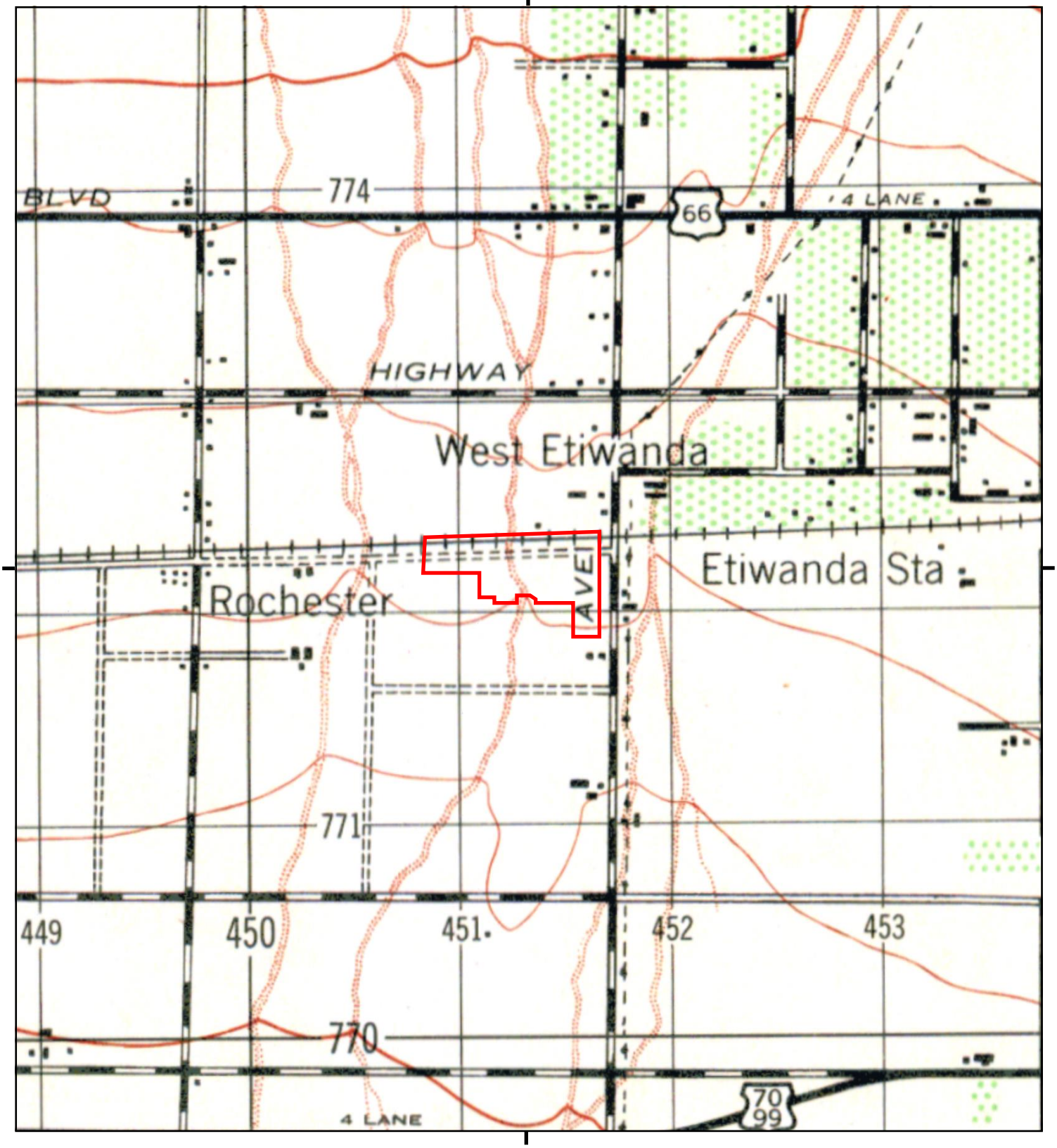
TP, Guasti, 1953, 7.5-minute

SITE NAME: 8996 Etiwanda Avenue
ADDRESS: 8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739
CLIENT: Path Forward Partners

N

Historical Topo Map

1944



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

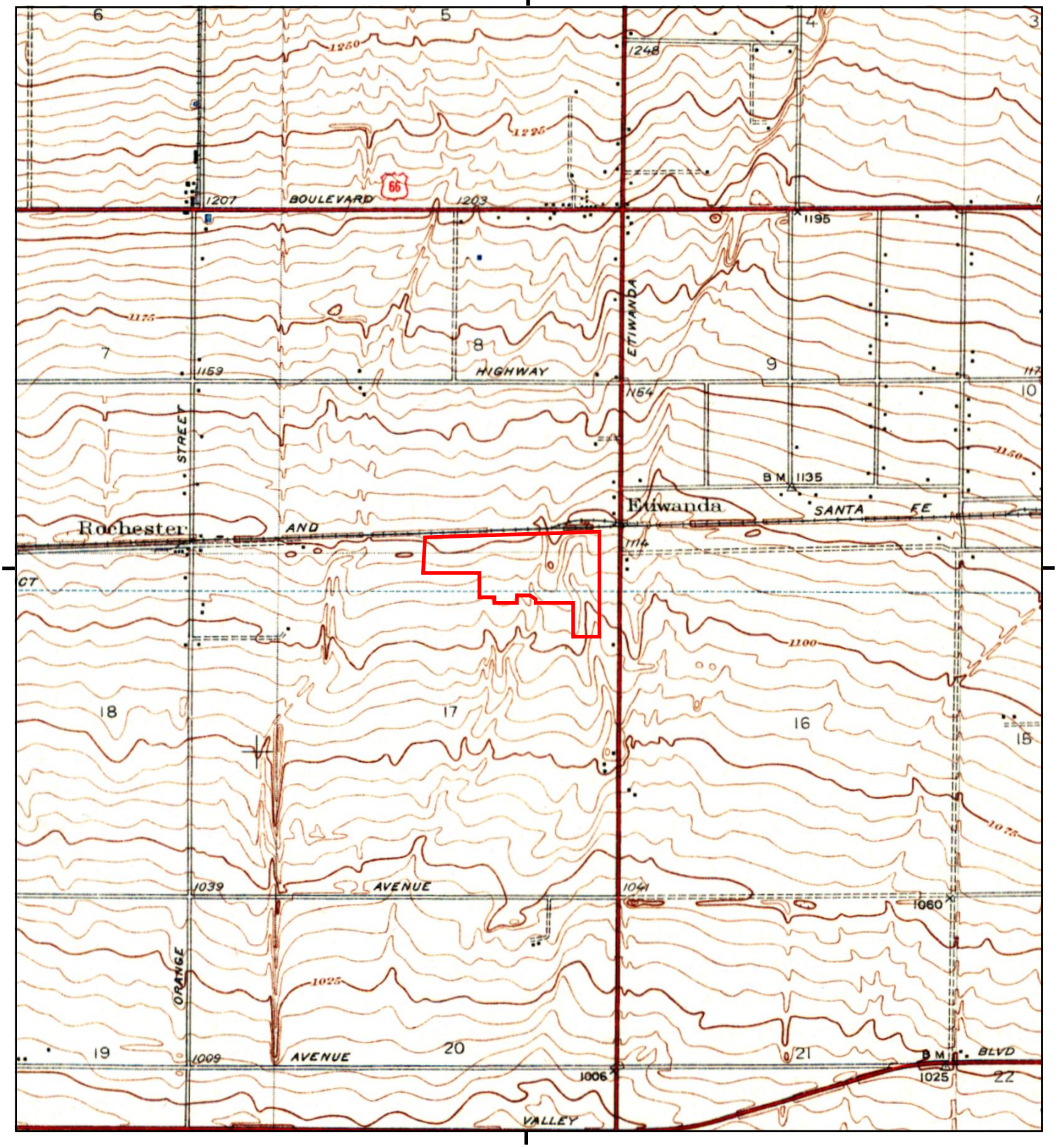
TP, CUCAMONGA, 1944, 15-minute

SITE NAME: 8996 Etiwanda Avenue
ADDRESS: 8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739
CLIENT: Path Forward Partners

N

Historical Topo Map

1941



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

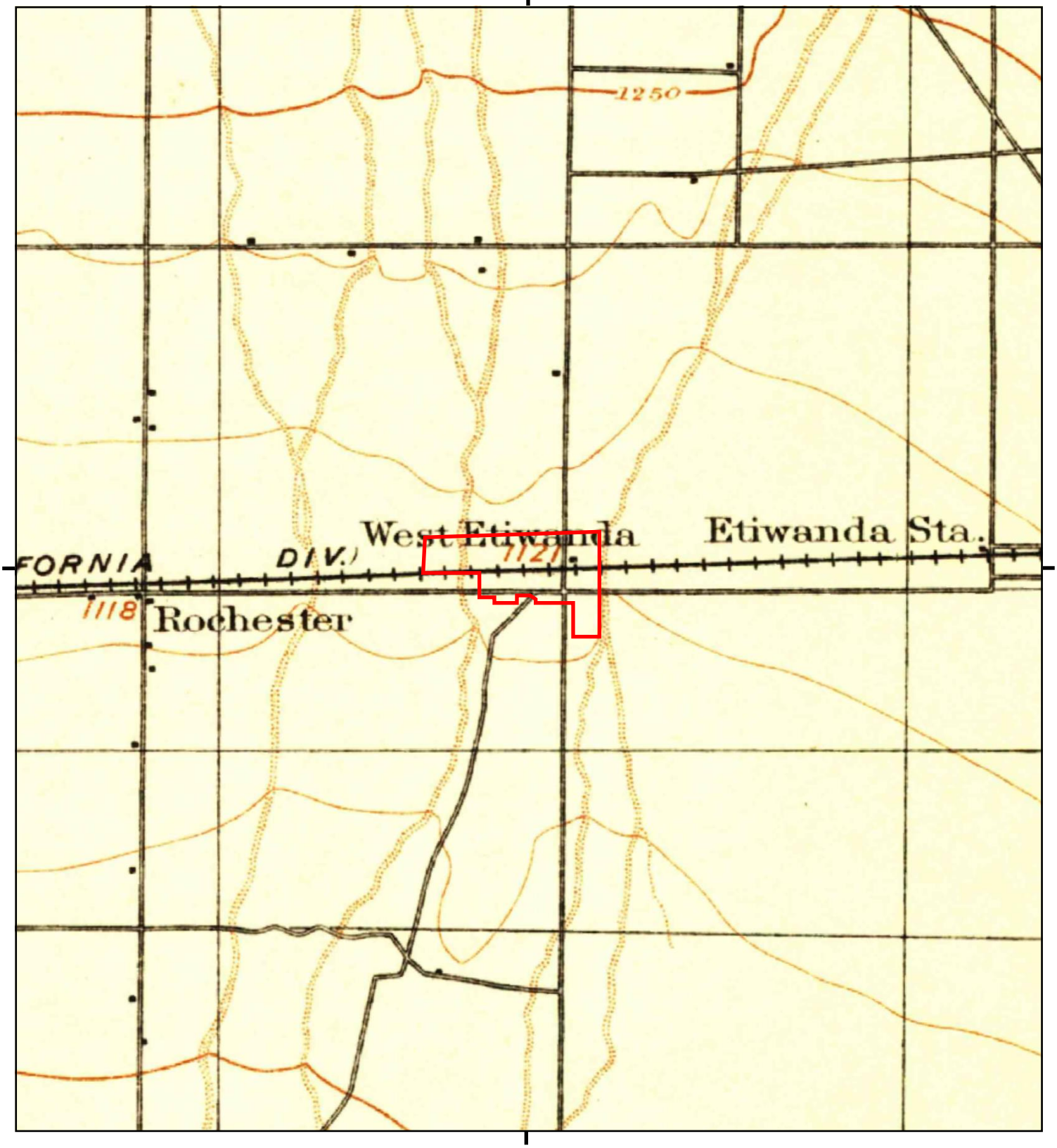
TP, GUASTI VICINITY, 1941, 7.5-minute

SITE NAME: 8996 Etiwanda Avenue
ADDRESS: 8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739
CLIENT: Path Forward Partners

N

Historical Topo Map

1903



This report includes information from the following map sheet(s).

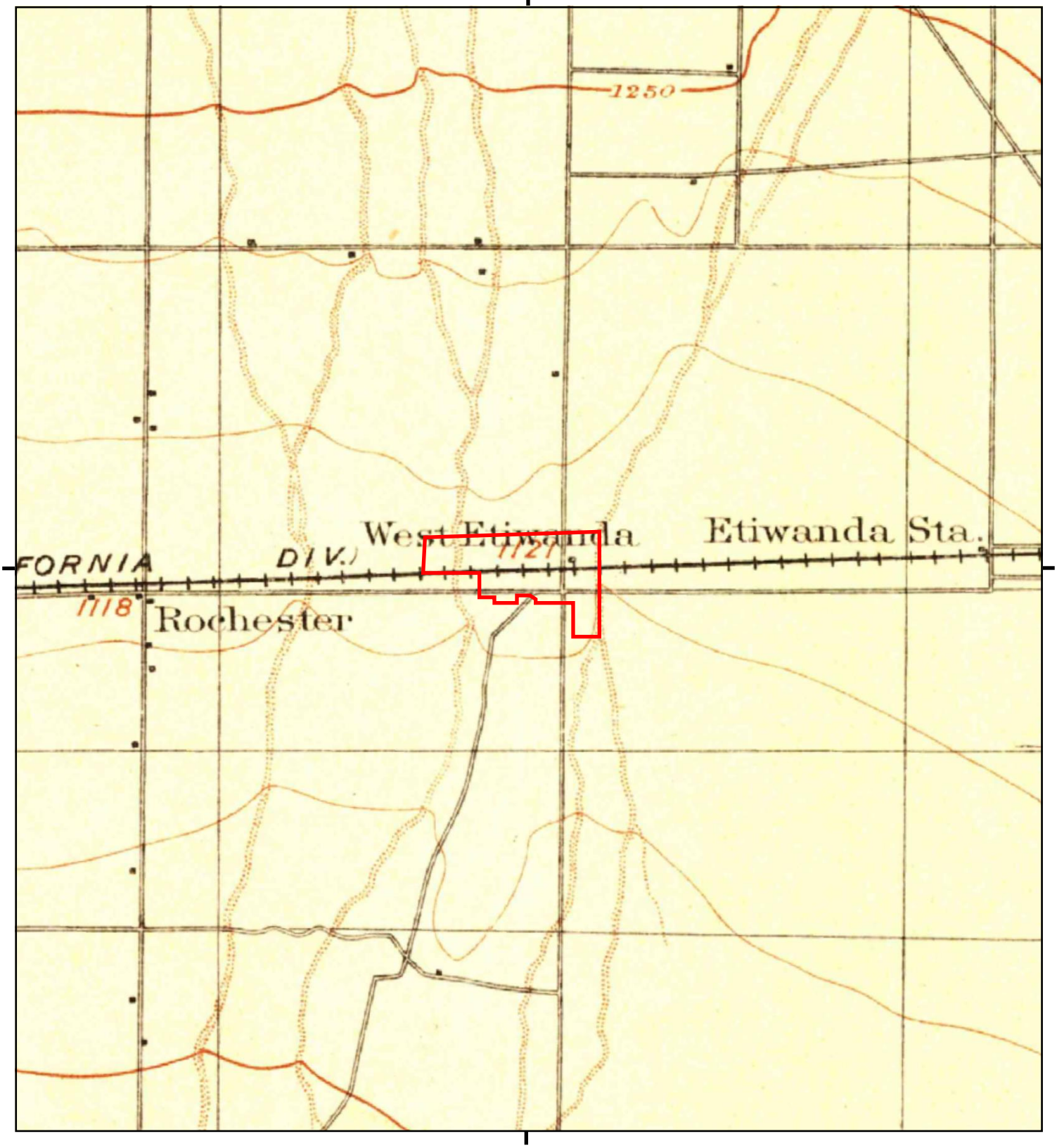
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Cucamonga, 1903, 15-minute

SITE NAME: 8996 Etiwanda Avenue
ADDRESS: 8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739
CLIENT: Path Forward Partners

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

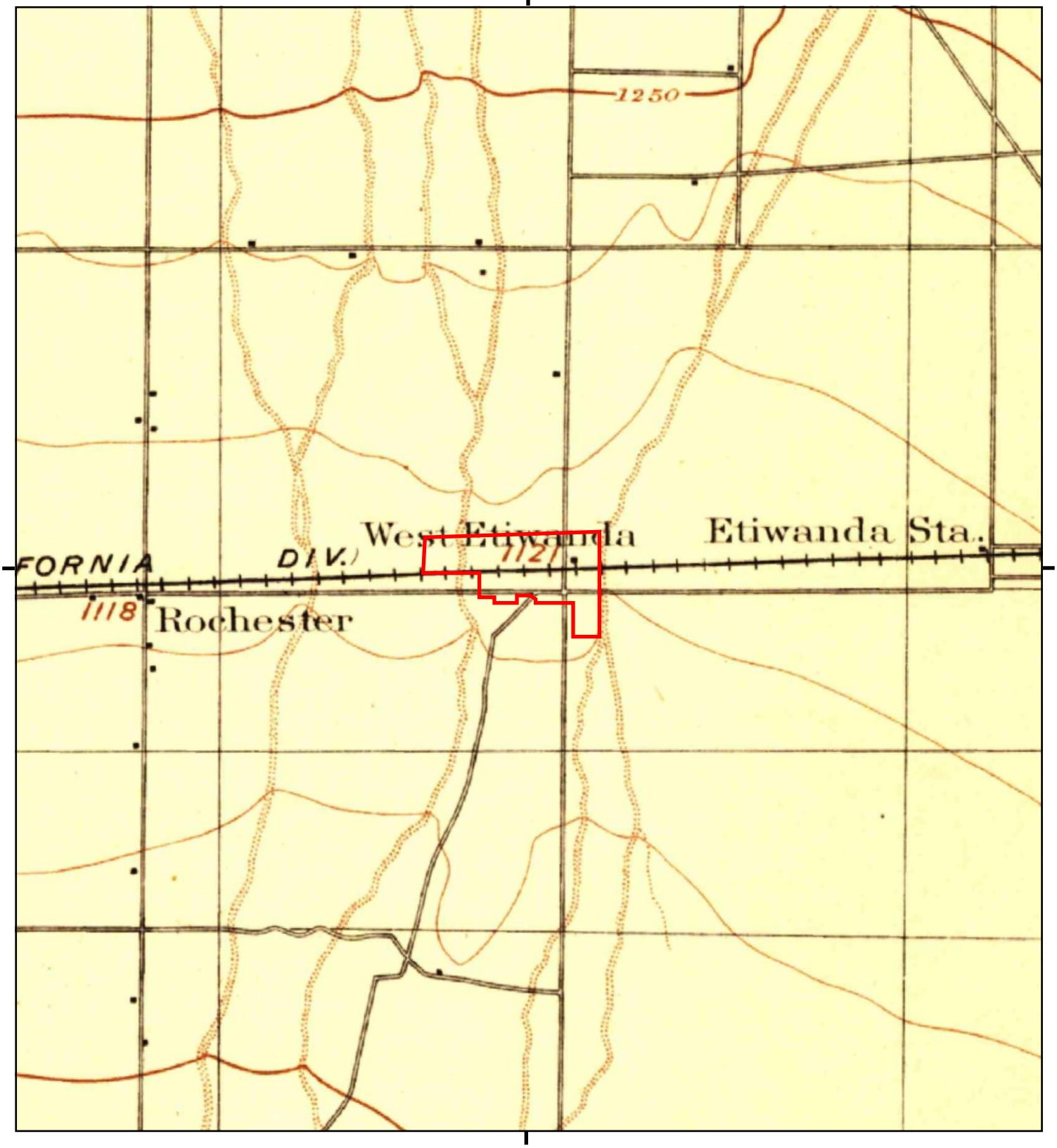
TP, Cucamonga, 1900, 15-minute

SITE NAME: 8996 Etiwanda Avenue
ADDRESS: 8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739
CLIENT: Path Forward Partners

N

Historical Topo Map

1897



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Cucamonga, 1897, 15-minute

SITE NAME: 8996 Etiwanda Avenue
ADDRESS: 8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739
CLIENT: Path Forward Partners

N

8996 Etiwanda Avenue

8996 Etiwanda Avenue

Rancho Cucamonga, CA 91739

Inquiry Number: 6184297.3

September 08, 2020

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

09/08/20

Site Name:	Client Name:
8996 Etiwanda Avenue	Path Forward Partners
8996 Etiwanda Avenue	505 14th Street #1230
Rancho Cucamonga, CA 9173	Oakland, CA 94612
EDR Inquiry # 6184297.3	Contact: Karen Smith

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Certified Sanborn Results:

Certification # C77B-4585-9455

PO # 124-108-100

Project 8996 Etiwanda Avenue

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: C77B-4585-9455

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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8996 Etiwanda Avenue
8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739

Inquiry Number: 6184297.5
September 08, 2020

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by infoUSA®

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2017	Cole Information Services	X	X	X	-
2014	Cole Information Services	X	X	X	-
2009	Cole Information Services	X	X	X	-
2008	Haines Company, Inc.	-	X	X	-
	Haines Company, Inc.	X	X	X	-
2004	Cole Information Services	X	X	X	-
2003	Haines & Co Publishers	-	X	X	-
	Haines & Co Publishers	X	X	X	-
2002	Cole Information Services	-	-	-	-
1999	Cole Information Services	-	X	X	-
1996	GTE	-	-	-	-
1995	GTE Directories	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1994	Cole Information Services	-	X	X	-
1991	GTE California Incorporated	-	-	-	-
1990	GTE	-	X	X	-
1985	GTE	-	X	X	-
	GTE	X	X	X	-
1981	General Telephone Company of California	-	-	-	-
1980	GTE General Telephone Company of California	-	X	X	-
1975	Pacific Telephone Co	-	-	-	-
1970	General Telephone Company of California	-	X	X	-
1965	GTE	-	-	-	-
1964	Luskey Brothers & Co	-	-	-	-
1961	Luskey Brothers& Co Publishers	-	-	-	-
1960	Luskey Brothers & Co Publishers	-	-	-	-
1956	General Telephone Company Publishers	-	-	-	-
1955	Luskey Brothers Co Publishers	-	-	-	-
1951	Los Angeles Directory Co Publishers	-	-	-	-
1950	The Pacific Telephone and Telegraph Co	-	-	-	-
1949	San Bernardino Directory Co. Publishers	-	-	-	-
1946	Los Angeles Directory Company Publishers	-	-	-	-
1945	Southern Califronia Telephone Company	-	-	-	-
1942	San Bernardino Directory Co Publisher	-	-	-	-
1941	Associated Telephone Company Limited	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Co.	-	-	-	-
1936	San Bernardino Directory Co Publisher	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Co.	-	-	-	-
1930	San Bernardino Directory Co Publisher	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Company	-	-	-	-
1922	R.L. Polk & Co Publishers	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739

FINDINGS DETAIL

Target Property research detail.

ETIWANDA AVE

8996 ETIWANDA AVE

Year	*Uses*	*Source*
2017	NRG ENERGY	Cole Information Services
2014	GEN ON ENERGY	Cole Information Services
2009	RELIANT ENERGY CORP	Cole Information Services
	RELIANT RESOURCES INC	Cole Information Services
2008	XXXX	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services
	RELIANT ENERGY	Cole Information Services
2003	XXXX	Haines & Co Publishers
1985	ETIWANDA AV FON	GTE
	SEPHTON WTR TECHNLGY	GTE

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

ETIWANDA AVE

8810 ETIWANDA AVE

Year	Uses	Source
2017	BERNELL HYDRAULICS INC	Cole Information Services
2014	BERNELL HYDRAULICS INC	Cole Information Services
	BERNELL	Cole Information Services
2009	BERNELL HYDRAULICS INC	Cole Information Services
2004	BERNELL HYDRAULICS INC	Cole Information Services
1999	BERNELL	Cole Information Services

8821 ETIWANDA AVE

Year	Uses	Source
2017	THE BAIL HOTLINE	Cole Information Services
	ZK PARTS & LUBE	Cole Information Services
2014	THE BAIL HOTLINE	Cole Information Services
	PRECISION TOOL WORKS	Cole Information Services
2009	JB CUSTOM UPHOLSTERY	Cole Information Services
	ARMADA TRANSPORT	Cole Information Services
	PRECISION TOOL WORKS	Cole Information Services
	RANCHO CUCAMONGA TOWING	Cole Information Services
	ARMADA TOWING INC	Cole Information Services
	THE BAIL HOTLINE	Cole Information Services
	CJM TRUCKING	Cole Information Services
2004	SAN BERNARDINO TOWING	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
	ARMADA TRANSPORT	Cole Information Services
	KIPLEY FOREST PRODUCTS	Cole Information Services
	PRECISION TOOL WORKS	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	DATA INTEGRITY	Cole Information Services
	PRECISION TOOL WORKS	Cole Information Services
1994	DATA INTEGRITY	Cole Information Services
	POLOCK, J C	Cole Information Services
	PRECISION TOOL WORKS	Cole Information Services

FINDINGS

8822 ETIWANDA AVE

Year	Uses	Source
2017	PACIFIC COAST RECYCLING	Cole Information Services
2014	PACIFIC COAST RECYCLING	Cole Information Services
2009	PACIFIC COAST RECYCLING	Cole Information Services
	SIMSMETAL USA CORP	Cole Information Services
1999	FERROMET INCORPORATED	Cole Information Services
1994	FERROMET INC	Cole Information Services

8845 ETIWANDA AVE

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services

8875 ETIWANDA AVE

Year	Uses	Source
1995	T M P SERVICES	GTE Directories

8885 ETIWANDA AVE

Year	Uses	Source
1985	D & M TRANSPORT INC	GTE

8889 ETIWANDA AVE

Year	Uses	Source
2017	ALL STATE PAPERMETAL RECYCLING	Cole Information Services
2014	ALL STATE PAPER & METAL RECYCLING CO	Cole Information Services
2009	ALL STATE PAPER & METAL RECYCLING CO	Cole Information Services
	INLAND EMPIRE SCRAP MTLS RCYCL	Cole Information Services
2008	INLAND COMPANY	Haines Company, Inc.
	ALL ST PPR & METAL RCYCLG CO	Haines Company, Inc.
2004	INLAND CO	Cole Information Services
	RECYCLING RESOURCES	Cole Information Services
	ALL STATE PAPER & METAL RCYCLN CO	Cole Information Services
	JAMES LIN	Cole Information Services
2003	LIN James	Haines & Co Publishers
	INLAND COMPANY	Haines & Co Publishers
	ALL STATE PAPER & METAL RECYCLNG	Haines & Co Publishers
1999	INLAND COMPANY	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services

FINDINGS

Year	Uses	Source
1995	INDUSTRIAL SALVAGE CORP	GTE Directories
1994	INDSTRL SALVGE CORP	Cole Information Services
	INDUSTRIAL SALVAGE CORP	Cole Information Services
1990	Hartanto Anthony	GTE
	Iarte Hanks Transportation	GTE
	Arizona Pacific Transport	GTE
1985	HARTE HANKS TRANS	GTE
	M S MARKS TRUCKNG CO	GTE
	LOPEZ MAR	GTE
1980	LUNDEEN COATNGS CORP	GTE General Telephone Company of California
	SONNYS METAL PROOCTS	GTE General Telephone Company of California
	SONNYS METAL PROOCTS	GTE General Telephone Company of California
	LUNDEEN COATNGS CORP	GTE General Telephone Company of California

8939 ETIWANDA AVE

Year	Uses	Source
2017	AGUILAR TRUCKING INC	Cole Information Services
2014	BOLGER DAVE	Cole Information Services
	AGUILAR TRUCKING INC	Cole Information Services
2009	AGUILAR TRUCKING INC	Cole Information Services
2008	AGUILAR TRUCKING INC	Haines Company, Inc.
	BOLGER DAVE	Haines Company, Inc.
2004	AGUILAR WAREHOUSE & DSTRBTN INC	Cole Information Services
2003	BOLGER Dave	Haines & Co Publishers
	AGUILAR TRUCKING INC	Haines & Co Publishers
1999	AGUILAR TRUCKING INCORPORATED	Cole Information Services
	BOLGER DAVE	Cole Information Services
1995	BOLGER DAVE	GTE Directories
1994	STERLING CAN CORP	Cole Information Services
1990	C H B Foods Metal Decorating Div	GTE
1985	C H B FOODS METAL	GTE
1980	NATIONAL CAN CORP	GTE General Telephone Company of California
	NATIONAL CAN CORP	GTE General Telephone Company of California

FINDINGS

8975 ETIWANDA AVE

Year	*Uses*	*Source*
2004	LISA DERHAMMER	Cole Information Services

ETIWANOA AV CONT

8889 ETIWANOA AV CONT

Year	*Uses*	*Source*
1970	n CALIF STELL / SUPPLY	General Telephone Company of California

NAPA ST

12950 NAPA ST

Year	*Uses*	*Source*
2014	BAIL AABB	Cole Information Services
	ARMSTRONG BAIL BONDS	Cole Information Services
	A ABB BAIL BONDS	Cole Information Services
2008	JOHNSON BAIL BONDS	Haines Company, Inc.
2004	DAVE JOHNSON BAIL BONDS	Cole Information Services
	DAVE JOHNSON	Cole Information Services
2003	JOHNSON BAIL BONDS	Haines & Co Publishers

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
12950 NAPA ST	2017, 2009, 2008, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
12950 NAPA ST	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8810 ETIWANDA AVE	2008, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8821 ETIWANDA AVE	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8822 ETIWANDA AVE	2008, 2004, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8845 ETIWANDA AVE	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8875 ETIWANDA AVE	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8885 ETIWANDA AVE	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8889 ETIWANDA AVE	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1991, 1981, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8889 ETIWANDA AVE	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8889 ETIWANOA AV CONT	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8939 ETIWANDA AVE	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1991, 1981, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8939 ETIWANDA AVE	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
8975 ETIWANDA AVE	2017, 2014, 2009, 2008, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
8996 Etiwanda Avenue	2002, 1999, 1996, 1995, 1994, 1991, 1990, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

Appendix I

Regulatory Agency Records

SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT

620 South "E" Street ● San Bernardino, CA 92415-0153 ● (909) 386-8401 ● Fax (909) 386-8460

Office of the Fire Marshal
Hazardous Materials Division
sbcfire.org

Daniel R. Munsey
Fire Chief/Fire Warden

Michael A. Horton
Fire Marshal/Deputy Fire Warden

September 29, 2020

20092202 Rancho Cucamonga RAL Path Forward

PATH FORWARD
505 14TH STREET, SUITE 1230
OAKLAND, CA 94612

ATTENTION: KAREN SMITH

SUBJECT: CERTIFIED RECORD SEARCH FINDINGS
8996 ETIWANDA AVENUE, RANCHO CUCAMONGA, CALIFORNIA

This is to confirm that the San Bernardino County Hazardous Materials Division has identified records that may pertain to the subject site, as described in your request for records search.

The file(s) shown below have been retrieved for review. If you wish to view the original documents, please e-mail this office at mmolina@sbcfire.org or call the number at the end of this letter to arrange an appointment.

ACTIVE PERMIT FACILITIES: (Regulatory files for facilities with annual operating permits to maintain underground storage tanks, handle hazardous materials, and/or generate hazardous waste. Files include permits, inspections, reports, test results, correspondence, and related materials. Files will also include any underground tank removal/construction activity records and site remediation/contamination records for facilities still in operation).

Etiwanda Generating Station 8996 Etiwanda Ave. Rancho Cucamonga	FA0002943~ CERS ID. 10038976 Small Quantity Generator Permit Hazardous Materials 11-30 Chemicals Handler Permit (Last CERS Submission: 08/24/2020)

INACTIVE PERMIT AND/OR NON-PERMIT FACILITIES: (Inactive regulatory files for formerly permitted facilities that maintained underground storage tanks, stored hazardous materials, and/or generated hazardous waste and/or facilities with underground storage tanks removed and/or materials and waste removed.
Files will also include any underground tank removal/construction activity records and site remediation/ contamination records for facilities no longer operating underground tanks).

Etiwanda Generating Station 8996 Etiwanda Ave. Rancho Cucamonga	FA0002943 ~ Est. # 86008879 Underground Storage Tank Permit

PERMITS TO REMOVE/INSTALL/MODIFY TANKS UNDERGROUND:

Etiwanda Generating Station 8996 Etiwanda Ave. Rancho Cucamonga	Issued 01/03/2000 Removal (1) – Removed on 01/13/2000 Log # 010300-02 ~ Job Card # 6319

BOARD OF DIRECTORS

Robert A. Lovingood, First District | Janice Rutherford, Second District | Dawn Rowe, Third District | Curt Hagman, Chairman, Fourth District | Josie Gonzales, Vice Chair, Fifth District

Gary McBride, Chief Executive Officer

HAZARDOUS MATERIAL INCIDENT AND/OR COMPLAINT RESPONSE ACTIVITY: (other records of spill notifications and/or complaints not listed below may also exist in facility permit files).

Etiwanda Generating Station 8996 Etiwanda Ave. Rancho Cucamonga	CO0032644 06/16/2016 Release of approximately 42 gallons of lube oil
Etiwanda Generating Station 8996 Etiwanda Ave. Rancho Cucamonga	CO0031131 07/25/2014 Release of less than 3 gallons of sodium hypochlorite
Etiwanda Generating Station 8996 Etiwanda Ave. Rancho Cucamonga	CO0029229 04/05/2012 Cement/hazardous waste release to stream/river/soil from pipe from Ameron. Fish and Game and Water Board cleaned up stream. Ameron fixed the pipe of release. Samples of water were sent to lab. Results of lab tests were all levels of metals and pH were below hazardous waste levels. Remediated soil was kept onsite at Ameron. Case closed.
Genonwest, LP 8996 Etiwanda Ave. Rancho Cucamonga	CO0028479 05/09/2011 Release of 150 gallons of cooling water (reclaimed water with well mixture)
RRI Energy Etiwanda 8996 Etiwanda Ave. Rancho Cucamonga	CO0027236 03/03/2010 Release of 35 gallons of oil
Etiwanda Generating Station 8996 Etiwanda Ave. Rancho Cucamonga	CO0025739 10/10/2008 Release of 50 gallons of mineral oil
Reliant Energy 8996 Etiwanda Ave. Rancho Cucamonga	CO0002935 07/15/2002 5000 gallons of cooling tower water
Reliant Energy 8996 Etiwanda Ave. Rancho Cucamonga	CO0002860 02/09/2002 Release of 1000 gallons of cooling water (w/Chlorine)
Reliant Energy 8996 Etiwanda Ave. Rancho Cucamonga	CO0002554 09/13/2001 Release of 80 gallons of cooling tower water
Reliant Energy 8996 Etiwanda Ave. Rancho Cucamonga	CO0002525 08/28/2001 Release of 100 gallons of cooling tower water

Reliant Energy 8996 Etiwanda Rancho Cucamonga	CO0002430 07/16/2001 Release of 150 Gallons of coolant tower water
Reliant Energy 8996 Etiwanda Rancho Cucamonga	CO0002320 05/21/2001 Release of 20 gallons of cooling tower water
Reliant Energy 8996 Etiwanda Rancho Cucamonga	CO0002773 01/17/2001 Release of 100 gallons of cooling tower water
Reliant Generator Station 8996 Etiwanda Rancho Cucamonga	CO0003575 06/30/1999 Release of 500 gallons of process tower water

SITE REMEDIATION: (Underground Storage Tank Clean-Up under Local Oversight Program or Voluntary Hazardous Waste Clean-Up activity under Local Jurisdiction) (documents may be included in regular active or inactive permit files listed above).

No record of site remediation identified in this search.

Records searched include permit database systems for facilities with permits as hazardous waste generators, hazardous materials handlers, and/or underground storage tanks, including inactive and/or out of business records; logs of permits issued for the removal and/or installation of underground storage tanks; records and databases pertaining to illicit dumping and releases; records of non-permitted facilities; sites undergoing remediation for contaminated soil and/or groundwater; and incidents responded to by the hazardous materials emergency response team. Records date back to mid- 1980's. Please note if a facility has completed a submission in CERS, the most recent submission can be made available for review upon request.

Records consist of 11 file(s), 13 volumes, approximately 13 ½" thick. To request a file review appointment or request further clarification, please contact this office at (909) 386-8468 or by email to mmolina@sbcfire.org.

Donna Juday

DONNA JUDAY
Office Specialist
Office of the Fire Marshal
Hazardous Materials Division

*We will copy pre-selected pages from a file at a charge $0.25 per page copied. (Be prepared to make this payment at the time of service). We can also refer you to a private copy service. If you prefer to bring a portable copier, cell phone with camera on site, you may do so. Please let us know your plans in advance so that accommodations can be made.

Department of Toxic Substances Control

Meredith Williams, Ph.D. Director
5796 Corporate Avenue
Cypress, California 90630

Jared Blumenfeld
Secretary for
Environmental Protection

Gavin Newsom
Governor

September 9, 2020

Karen Smith
PATH FORWARD PARTNERS INC
Karen@Pathfw.net

PR4-090820-10
RELIANT ENERGY-SELECTIVE CATALYTIC/ SO. CALIF EDISON 8996 ETIWANDA AVE, RANCHO CUCAMONGA, CA

Dear Requestor:

On September 8, 2020 the Department of Toxic Substances Control (DTSC) received your email of September 8, 2020 requesting records under the Public Records Act. (DTSC) Department of Toxics Substances Control has identified site records responsive to your request and is in the process of gathering the requested records.

Please contact us to schedule an appointment to review these records. DTSC will notify you if any of the records will be withheld from disclosure under the Act. We recommend you bring a copier or arrange for a bonded copying service to make copies of the records.

DTSC's Hazardous Waste Tracking System (HWTS) may have records that pertain to this request. This unit tracks toxic waste generators, transporters 9manifests) and disposal facilities. If you are interested in this type of information, it can be identified by accessing the HWTS database at http://hwts.dtsc.ca.gov/report_search.cfm?id=5. If you are interested in retrieving detailed reports additional charges may apply. Please contact the HWTS unit by email at hwtsreports@dtsc.ca.gov or by phone at 800-6186942 for further information. For copies of manifests, please send an email to mcr@dtsc.ca.gov.

A large number of records are available on EnviroStor an online database that provides non-confidential, public access to DTSCs data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities

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and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone the local library - anywhere Internet access is available. Just go to www.envirostor@dtsc.ca.gov. You'll find a step-by-step of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions, would like further information regarding your request please contact me at (714) 484-5337.

Sincerely



Julie Johnson
Regional Records Coordinator

From:	WB-RB8-FileReview8
To:	Karen Smith
Subject:	RE: File review request - 8996 Etiwanda Avenue
Date:	Wednesday, September 23, 2020 3:03:21 PM

Good afternoon,

After careful review of our records, we show we have files available for review for the following site:
8996 Etiwanda Avenue
Rancho Cucamonga, California

Please contact us through this inbox if you would like to schedule an appointment to review files M-F 8:30-4:30.

Thank you,
File Review Desk
3737 Main St. Suite 500
Riverside, CA 92501

From: Karen Smith <karen@Pathfw.net>
Sent: Tuesday, September 8, 2020 4:40 PM
To: WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
Subject: File review request - 8996 Etiwanda Avenue

EXTERNAL:

Dear sir/madam,

We would like to review records on file for the following address in Rancho Cucamonga:

8996 Etiwanda Avenue
Rancho Cucamonga, California

Please let me know if you need any additional information.

Thanks.
Karen

Karen T. Smith
Path Forward Partners, Inc.
C: 415.420.9430
www.pathfw.net

From:	Egli, Ryan@CalRecycle
To:	Karen Smith
Subject:	RE: File review request - 8996 Etiwanda Avenue, Rancho Cucamonga
Date:	Friday, October 9, 2020 8:46:01 AM

Karen,

CalRecycle doesn't have any records for address listed below.

Thanks,

Ryan Egli
CalRecycle

From: Karen Smith <karen@Pathfw.net>
Sent: Tuesday, September 29, 2020 12:34 PM
To: Public Records Requests <PubRecReq@CalRecycle.ca.gov>
Subject: File review request - 8996 Etiwanda Avenue, Rancho Cucamonga

[[EXTERNAL]]

Dear sir/madam,

We would like to review records on file for the following address in Rancho Cucamonga:

8996 Etiwanda Avenue
Rancho Cucamonga, California

Please let me know if you need any additional information.

Thanks.
Karen

Karen T. Smith
Path Forward Partners, Inc.
C: 415.420.9430
www.pathfw.net

Appendix J

User Questionnaire

PATH FORWARD
Environmental Engineering & Geology

PHASE I ENVIRONMENTAL SITE ASSESSMENT
USER QUESTIONNAIRE

In order to qualify for one of the Landowner Liability Protections (LLPs)[1] offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"),188 the user must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete.

1. **Environmental liens that are filed or recorded against the property (40 CFR 312.25).** Did a search of recorded land title records (or judicial records where appropriate, see Note 1 below) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law? NO

   NOTE 1—In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

2. **Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and vi)).** Did a search of recorded land title records (or judicial records where appropriate, see Note 1 above) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law? NO

3. **Specialized knowledge or experience of the person seeking to qualify for the LLP** (40 CFR 312.28).
   Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

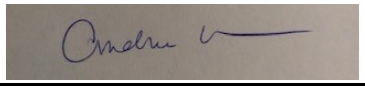
[1] Landowner Liability Protections, or LLPs, is the term used to describe the three types of potential defenses to Superfund liability in EPA's Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability ("Common Elements" Guide) issued on March 6, 2003.

4. **Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).**
   Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? YES

5. **Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).**
   Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example,
   (a.) Do you know the past uses of the property? - see Seller's Phase I
   (b.) Do you know of specific chemicals that are present or once were present at the property? (c.) Do you know of spills or other chemical releases that have taken place at the property? (d.) Do you know of any environmental cleanups that have taken place at the property? See Seller's Phase I

6. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by ap- propriate investigation (40 CFR 312.31).
   Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property?
   See Seller's Phase I

THE ABOVE REFERENCED INFORMATION IS TRUE TO THE BEST OF MY KNOWLEDGE:



Signature

Managing Director
Title

Andrea Karp
Name

9/3/2020
Date

Appendix K

Environmental Database Report

8996 Etiwanda Avenue
8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739

Inquiry Number: 6184297.2s
September 09, 2020

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA 91739

COORDINATES

Latitude (North):	34.0911400 - 34° 5' 28.10''
Longitude (West):	117.5276790 - 117° 31' 39.64''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	451320.8
UTM Y (Meters):	3772192.5
Elevation:	1123 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5620426 GUASTI, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA 91739

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	NRG ENERGY INC	8996 ETIWANDA AVENUE	FINDS, ECHO		TP
A2	NRG ENERGY INC	8996 ETIWANDA AVENUE	CERS HAZ WASTE, CHMIRS, LDS, NPDES, San Bern. Co....		TP
A3	ETIWANDA GENERATING	8996 ETIWANDA ROAD	COAL ASH DOE		TP
A4	NRG CALIFORNIA SOUTH	8996 ETIWANDA AVE	AST, SWEEPS UST, HIST UST, CHMIRS, EMI, WDS		TP
A5	EPTC ETIWANDA	8996 ETIWANDA AVE.	RCRA-SQG		TP
A6	ETIWANDA GENERATING	8996 ETIWANDA BLVD	RCRA-SQG, TSCA, FINDS, ECHO		TP
A7	INLAND EMPIRE UTILIT	8996 ETIWANDA AVE	HWTS		TP
A8		8996 ETIWANDA AV.	CHMIRS		TP
A9		8996 ETIWANDA AVE.	CHMIRS		TP
A10	SOUTHERN CALIFORNIA	8996 ETIWANDA AVE	HWTS		TP
A11	ETIWANDA LAUNCHER FA	8996 ETIWANDA AVE	HIST UST		TP
A12	NRG CALIFORNIA SOUTH	8996 ETIWANDA AVE	ICIS, US AIRS		TP
A13		8996 ETIWANDA AVE, U	CHMIRS		TP
A14	SOUTHERN CALIFORNIA	8996 ETIWANDA AVE	HAZNET, HWTS		TP
A15	SOUTHERN CALIFORNIA	8996 ETIWANDA AVE	HWTS		TP
A16	NORTH STAR RECYCLING	8996 ETIWANDA AVE	CIWQS		TP
A17		8996 ETIWANDA AVE	CHMIRS		TP
A18	GENERATING STATION,E	8996 ETIWANDA AVENUE	WMUDS/SWAT, CHMIRS		TP
A19	ETIWANDA SUBSTATION	8996 ETIWANDA AVE	NPDES, CIWQS		TP
A20	ETIWANDA GENERATING	8996 ETIWANDA BLVD	HAZNET, HWTS		TP
A21	GENON ADMIN BUILDING	8996 ETIWANDA AVE	HWTS		TP
B22	CALIFORNIA HOME BRAN	8930 ETIWANDA AVE	RCRA-SQG, FINDS, ECHO, HAZNET, HWTS	Lower	27, 0.005, ENE
C23	SOUTHERN CALIFORNIA	8998 ETIWANDA AVENUE	ENVIROSTOR, San Bern. Co. Permit	Lower	29, 0.005, East
C24	EPTC-ETIWANDA	8998 ETIWANDA AVE	HWP	Lower	29, 0.005, East
C25	SCE ETIWANDA SWITCHY	9000 ETIWANDA AVE	AST, San Bern. Co. Permit, CERS	Lower	29, 0.005, East
C26	VERIZON WIRELESS: CO	9039 ETIWANDA AVE	San Bern. Co. Permit, CERS	Lower	73, 0.014, ESE
B27	ALL STATE PAPER & ME	8889 ETIWANDA AVE	NPDES, San Bern. Co. Permit	Lower	112, 0.021, ENE
D28	SA RECYCLING	8822 ETIWANDA AVE	RCRA NonGen / NLR	Higher	248, 0.047, NE
D29	DP ETIWANDA	8822 ETIWANDA AVE	RCRA-LQG	Higher	248, 0.047, NE
D30	SA RECYCLING	8822 ETIWANDA AVENUE	ENVIROSTOR, VCP, CHMIRS, EMI, HAZNET, NPDES, San...	Higher	248, 0.047, NE
D31	SIMSMETAL AMERICA	8822 ETIWANDA AVE	RCRA-SQG, SWEEPS UST, HIST UST, FINDS, ECHO, EMI,...	Higher	248, 0.047, NE
D32	SA RECYCLING	8822 ETIWANDA AVE	AST, HAZNET, CIWQS, HWTS	Higher	248, 0.047, NE
D33	BURNELL HYDROLICS	8810 ETIWANDA AVE	RCRA-SQG, FINDS, ECHO	Higher	258, 0.049, NE
D34	BERNELL HYDRAULICS I	8810 ETIWANDA AVE	RCRA NonGen / NLR	Higher	258, 0.049, NE
D35	BERNELL HYDRAULICS,	8810 ETIWANDA AVE	AST, CERS HAZ WASTE, CERS TANKS, CHMIRS, NPDES,...	Higher	258, 0.049, NE
E36	ALL STATE RECYCLING	8949 ETIWANDA AVENUE	CPS-SLIC, CERS	Lower	385, 0.073, East
E37	SOUTHERN CALIFORNIA	8949 ETIWANDA AVE	RCRA NonGen / NLR	Lower	385, 0.073, East
F38	BERNELL HYDRAULICS I	8821 ETIWANDA AVE	RCRA-SQG, FINDS, ECHO, HAZNET, HWTS	Higher	409, 0.077, ENE
F39	YAQUIS TRUCK REPAIR	8821 ETIWANDA AVE	RCRA NonGen / NLR	Higher	409, 0.077, ENE

MAPPED SITES SUMMARY

Target Property Address:
8996 ETIWANDA AVENUE
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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
F40	A G TRANSPORT	8821 ETIWANDA	San Bern. Co. Permit	Higher	409, 0.077, ENE
G41	KAISER STEEL CORP	9400 ETIWANDA AVE	CA FID UST	Lower	715, 0.135, SSE
G42	KAISER STEEL CORPORA	9401 ETIWANDA AVE	SWEEPS UST, CA FID UST	Lower	715, 0.135, SSE
G43	NEXTEL COMMUNICATION	ETIWANDA AVE & 6TH S	San Bern. Co. Permit	Lower	716, 0.136, SSE
H44	INLAND EMPIRE UTIL A	12811 6TH ST	RCRA NonGen / NLR	Lower	786, 0.149, SSE
H45	IEUA REGIONAL PLANT	12811 6TH ST	AST, CERS HAZ WASTE, CERS TANKS, CHMIRS, San Bern....	Lower	786, 0.149, SSE
H46	I.E.U.A. PLANT #4	12811 6TH ST	UST	Lower	786, 0.149, SSE
I47	CHAPARRAL TRUCKING	8729 ETIWANDA	RCRA NonGen / NLR, FINDS, ECHO	Higher	840, 0.159, NE
I48	NATIONAL DISTRIBUTIO	8688 ETIWANDA AVE	RCRA NonGen / NLR	Higher	1108, 0.210, NE
I49	NATIONAL DISTRIBUTIO	8688 ETIWAND AVE	CERS HAZ WASTE, NPDES, San Bern. Co. Permit, CERS	Higher	1108, 0.210, NE
I50	GEORGIA PACIFIC	8688 ETIWANDA AVE	RCRA NonGen / NLR	Higher	1108, 0.210, NE
J51	PACIFIC RECYCLING EN	13012 WITTRAM AVE.	SEMS-ARCHIVE	Higher	1170, 0.222, NE
J52	IVP INC DBA V & L RE	13053 WHITTRAN	RCRA NonGen / NLR	Higher	1180, 0.223, ENE
J53	IVP INC DBA V&L REPA	13053 WHITTRAM AVENU	CERS HAZ WASTE, NPDES, San Bern. Co. Permit, CERS	Higher	1180, 0.223, ENE
K54	STERLING CAN	8939 ETIWANDA AVENUE	CPS-SLIC	Lower	1214, 0.230, East
K55	STERLING CAN	8939 ETIWANDA AVENUE	CPS-SLIC, CERS	Lower	1214, 0.230, East
K56	CAL HOME BRANDS, C-H	8939 ETIWANDA AV	HIST UST, EMI	Lower	1214, 0.230, East
K57	NATIONAL CAN CORP	8939 ETIWANDA AVE	RCRA-SQG	Lower	1214, 0.230, East
J58	TRINITY EQUIPMENT RE	13052 WHITTRAM AVE	RCRA NonGen / NLR	Higher	1251, 0.237, ENE
L59	INLAND EMPIRE REGION	12645 6TH ST	AST, CERS HAZ WASTE, CERS TANKS, San Bern. Co....	Lower	1319, 0.250, SSW
L60	INLAND EMPIRE REGION	12645 6TH ST	SWF/LF, HAZNET, HWTS	Lower	1319, 0.250, SSW
L61	INLAND EMPIRE REGION	12645 6TH ST	RCRA NonGen / NLR	Lower	1319, 0.250, SSW
L62	INLAND EMPIRE REGION	12645 SIXTH STREET	SWF/LF, CERS	Lower	1319, 0.250, SSW
63	VILLA PARK LANDSCAPE	13109 WHITTRAM AVE.	SWF/LF, CERS	Higher	1694, 0.321, ENE
64	GOODMAN LOGISTICS CE	12455 ARROW ROUTE	WMUDS/SWAT, HIST UST, DEED, CHMIRS, LDS, ENF,...	Higher	1885, 0.357, North
65	SOIL TREATMENT, RANC	12167 ARROW ROUTE	WMUDS/SWAT	Higher	2087, 0.395, WNW
66	FOSECO INC	7TH ST OFF ROCHESTER	SEMS-ARCHIVE, RCRA-SQG, ENVIROSTOR, HIST UST	Lower	2319, 0.439, WSW
M67	CMC REBAR ETIWANDA	12451 ARROW RTE	ENVIROSTOR, VCP, CERS HAZ WASTE, NPDES, San Bern....	Higher	2333, 0.442, NW
N68	TAMCO	12549 ARROW HIGHWAY	ENVIROSTOR	Higher	2338, 0.443, NNW
M69	TAMCO	12459 B ARROW ROUTE	SEMS-ARCHIVE, RCRA-LQG, ENVIROSTOR, LUST,...	Higher	2368, 0.448, NNW
M70	TI WIRE	12459 ARROW ROUTE	LUST, AST, CERS HAZ WASTE, CERS TANKS, CHMIRS,...	Higher	2368, 0.448, NNW
M71	AMERON STEEL AND WIR	12459 ARROW HWY	LUST, Cortese	Higher	2397, 0.454, NNW
M72	AMERON STEEL AND WIR	12459 ETIWANDA	HIST CORTESE	Higher	2410, 0.456, NNW
N73	AIR LIQUIDE	12550 ARROW RTE	LUST, AST, NPDES, San Bern. Co. Permit, CIWQS,...	Higher	2416, 0.458, NNW
N74	AIR LIQUIDE	12550 ARROW RTE	LUST, Cortese	Higher	2416, 0.458, NNW
N75	AIR LIQUIDE	12550 ARROW RT	HIST CORTESE	Higher	2416, 0.458, NNW
76	VISTA METALS CORPORA	13425 WHITTRAM AVE	ENVIROSTOR, UST, AST, CERS HAZ WASTE, SWEEPS UST,..	Higher	3547, 0.672, ENE
O77	KAISER SHELL CASING		FUDS	Lower	3919, 0.742, SSE
O78	NIRP TAYLOR FORGE LA		ENVIROSTOR	Lower	3920, 0.742, SSE

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
O79	KAISER SHELL CASING		ENVIROSTOR	Lower	3920, 0.742, SSE
P80	BASE OIL SERVICE	13579 WHITTRAM	ENVIROSTOR, SWEEPS UST, CA FID UST, EMI, ICE,...	Higher	4795, 0.908, ENE
P81	ADVANCED ENVIRONMENT	13579 WHITTRAM AVENU	CORRACTS, RCRA-LQG, US FIN ASSUR, PADS, HWP	Higher	4795, 0.908, ENE
Q82	CHEMWEST INDUSTRIES	13425 SAN BERNARDINO	ENVIROSTOR, CPS-SLIC, WMUDS/SWAT, HIST UST, DEED,..	Lower	4879, 0.924, SE
Q83	CHEMWEST IND INC	13425 SAN BERNARDINO	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-SQG, US...	Lower	4879, 0.924, SE
Q84	CHEMWEST INDUSTRIES	13425 SAN BERNARDINO	Toxic Pits	Lower	4879, 0.924, SE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
NRG ENERGY INC 8996 ETIWANDA AVENUE ETIWANDA, CA 91739	FINDS Registry ID:: 110070089502 ECHO Registry ID: 110070089502	N/A
NRG ENERGY INC 8996 ETIWANDA AVENUE ETIWANDA, CA 91739	CERS HAZ WASTE CHMIRS OES Incident Number: 10-1543 LDS Global Id: L10004706415 Status: Completed - Case Closed NPDES Facility Status: Terminated San Bern. Co. Permit Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0002943 CIWQS CERS	N/A
ETIWANDA GENERATING 8996 ETIWANDA ROAD RANCHO CUCAMONGA, CA 91739	COAL ASH DOE	N/A
NRG CALIFORNIA SOUTH 8996 ETIWANDA AVE ETIWANDA, CA 91739	AST Database: AST, Date of Government Version: 07/06/2016 SWEEPS UST Status: A Tank Status: A Comp Number: 60030 HIST UST Facility Id: 00000022179 Facility Id: 00000060030 Facility Id: 00000066344 CHMIRS OES Incident Number: 16-3638 EMI Facility Id: 800224 Facility Id: 115315 WDS Facility Status: A	N/A

EXECUTIVE SUMMARY

Facility Id: 8 36I013924

EPTC ETIWANDA 8996 ETIWANDA AVE. ETIWANDA, CA 91739	RCRA-SQG EPA ID:: CAD079548574	CAD079548574
ETIWANDA GENERATING 8996 ETIWANDA BLVD RANCH CUCAMONGA, CA 91739	RCRA-SQG EPA ID:: CAR000038158 TSCA FINDS Registry ID:: 110002414138 ECHO Registry ID: 110002414138	CAR000038158
INLAND EMPIRE UTILIT 8996 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739	HWTS	N/A
8996 ETIWANDA AV. 8996 ETIWANDA AV. RANCHO CUCAMONGA, CA	CHMIRS OES Incident Number: 1-5228	N/A
8996 ETIWANDA AVE. 8996 ETIWANDA AVE. RANCHO CUCAMONGA, CA 91739	CHMIRS OES Incident Number: 1-3155 OES Incident Number: 1-2945 OES Incident Number: 0-6149	N/A
SOUTHERN CALIFORNIA 8996 ETIWANDA AVE ETIWANDA, CA 91739	HWTS	N/A
ETIWANDA LAUNCHER FA 8996 ETIWANDA AVE ETIWANDA, CA 91739	HIST UST Facility Id: 00000066323	N/A
NRG CALIFORNIA SOUTH 8996 ETIWANDA AVE ETIWANDA, CA 91739	ICIS FRS ID:: 110002414138 US AIRS Database: US AIRS (AFS), Date of Government Version: 10/12/2016 EPA plant ID:: 110002414138	N/A
8996 ETIWANDA AVE, U 8996 ETIWANDA AVE, U RANCHO CUCAMONGA, CA 91739	CHMIRS	N/A

EXECUTIVE SUMMARY

	OES Incident Number: 15-4528	
SOUTHERN CALIFORNIA 8996 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739	HAZNET GEPAID: CAC002605906 HWTS	N/A
SOUTHERN CALIFORNIA 8996 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739	HWTS	N/A
NORTH STAR RECYCLING 8996 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739	CIWQS	N/A
8996 ETIWANDA AVE 8996 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739	CHMIRS OES Incident Number: 2-3830 OES Incident Number: 1-4093 OES Incident Number: 1-0348 OES Incident Number: 0-2616 OES Incident Number: 12-2022 **Additional key fields are available in the Map Findings section*	N/A
GENERATING STATION,E 8996 ETIWANDA AVENUE RANCHO CUCAMONGA CA, CA 91739	WMUDS/SWAT CHMIRS OES Incident Number: 9-2781	N/A
ETIWANDA SUBSTATION 8996 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739	NPDES CIWQS	N/A
ETIWANDA GENERATING 8996 ETIWANDA BLVD RANCHO CUCAMONGA, CA 91739	HAZNET GEPAID: CAR000038158 HWTS	N/A
GENON ADMIN BUILDING 8996 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739	HWTS	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing

INDIAN UST ---- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY ---- Recycler Database
HAULERS ---- Registered Waste Tire Haulers Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
ODI ---- Open Dump Inventory
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---- Historical Calsites Database
SCH ---- School Property Evaluation Program
CDL ---- Clandestine Drug Labs
US CDL ---- National Clandestine Laboratory Register
PFAS ---- PFAS Contamination Site Location Listing

Local Land Records

LIENS ---- Environmental Liens Listing
LIENS 2 ---- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
MCS ---- Military Cleanup Sites Listing
SPILLS 90 ---- SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
2020 COR ACTION ---- 2020 Corrective Action Program List
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems

ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	ICE
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WIP	Well Investigation Program Case List
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)
MINES MRDS	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR Hist Auto---------- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 07/29/2020 has revealed that there are 3 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PACIFIC RECYCLING EN Site ID: 0904783 EPA Id: CAD983659970	13012 WITTRAM AVE.	NE 1/8 - 1/4 (0.222 mi.)	J51	375
TAMCO Site ID: 0904936 EPA Id: CAD982361404	***12459 B ARROW ROUTE***	***NNW 1/4 - 1/2 (0.448 mi.)***	***M69***	***463***

Lower Elevation	Address	Direction / Distance	Map ID	Page
FOSECO INC	***7TH ST OFF ROCHESTER***	***WSW 1/4 - 1/2 (0.439 mi.)***	***66***	***437***

Site ID: 0901435
EPA Id: CAD053844395

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/23/2020 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ADVANCED ENVIRONMENT EPA ID:: CAT080025711	***13579 WHITTRAM AVENU***	***ENE 1/2 - 1 (0.908 mi.)***	***P81***	***631***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHEMWEST IND INC EPA ID:: CAD040520975	***13425 SAN BERNARDINO***	***SE 1/2 - 1 (0.924 mi.)***	***Q83***	***680***

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/23/2020 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DP ETIWANDA EPA ID:: CAP000290510	8822 ETIWANDA AVE	NE 0 - 1/8 (0.047 mi.)	D29	236

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/23/2020 has revealed that there are 5 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SIMSMETAL AMERICA	***8822 ETIWANDA AVE***	***NE 0 - 1/8 (0.047 mi.)***	***D31***	***258***

EPA ID:: CAD981368228				
BURNELL HYDROLICS	***8810 ETIWANDA AVE***	***NE 0 - 1/8 (0.049 mi.)***	***D33***	***300***
EPA ID:: CAR000076950				
BERNELL HYDRAULICS I	***8821 ETIWANDA AVE***	***ENE 0 - 1/8 (0.077 mi.)***	***F38***	***329***
EPA ID:: CAR000070748				

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA HOME BRAN	***8930 ETIWANDA AVE***	***ENE 0 - 1/8 (0.005 mi.)***	***B22***	***205***
EPA ID:: CAD981399843				
NATIONAL CAN CORP	8939 ETIWANDA AVE	E 1/8 - 1/4 (0.230 mi.)	K57	388
EPA ID:: CAD041580945				

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 04/27/2020 has revealed that there are 11 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SA RECYCLING	***8822 ETIWANDA AVENUE***	***NE 0 - 1/8 (0.047 mi.)***	***D30***	***237***
Facility Id: 60002634				
Status: Active				
CMC REBAR ETIWANDA	***12451 ARROW RTE***	***NW 1/4 - 1/2 (0.442 mi.)***	***M67***	***442***
Facility Id: 36340066				
Status: No Further Action				
TAMCO	12549 ARROW HIGHWAY	NNW 1/4 - 1/2 (0.443 mi.)	N68	462
Facility Id: 36330050				
Status: Refer: Other Agency				
TAMCO	***12459 B ARROW ROUTE***	***NNW 1/4 - 1/2 (0.448 mi.)***	***M69***	***463***
Facility Id: 36340064				
Status: No Further Action				
VISTA METALS CORPORA	***13425 WHITTRAM AVE***	***ENE 1/2 - 1 (0.672 mi.)***	***76***	***513***
Facility Id: 36340036				
Status: Refer: Other Agency				
BASE OIL SERVICE	***13579 WHITTRAM***	***ENE 1/2 - 1 (0.908 mi.)***	***P80***	***618***
Facility Id: 80001853				
Status: Active				

Lower Elevation	Address	Direction / Distance	Map ID	Page
SOUTHERN CALIFORNIA	***8998 ETIWANDA AVENUE***	***E 0 - 1/8 (0.005 mi.)***	***C23***	***217***

Facility Id: 60001192
Status: Active

FOSECO INC	***7TH ST OFF ROCHESTER***	***WSW 1/4 - 1/2 (0.439 mi.)***	***66***	***437***
Facility Id: 36280006 Status: Refer: Other Agency				
NIRP TAYLOR FORGE LA		SSE 1/2 - 1 (0.742 mi.)	O78	615
Facility Id: 80000675 Status: No Further Action				
KAISER SHELL CASING		SSE 1/2 - 1 (0.742 mi.)	O79	616
Facility Id: 80000271 Status: No Further Action				
CHEMWEST INDUSTRIES	***13425 SAN BERNARDINO***	***SE 1/2 - 1 (0.924 mi.)***	***Q82***	***667***
Facility Id: 80001364 Facility Id: 36280139 Status: Certified / Operation & Maintenance Status: Refer: RCRA				

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there are 3 SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VILLA PARK LANDSCAPE	***13109 WHITTRAM AVE.***	***ENE 1/4 - 1/2 (0.321 mi.)***	***63***	***413***
Database: SWF/LF (SWIS), Date of Government Version: 05/11/2020 Facility ID: 36-AA-0473 Operational Status: Active Regulation Status: Notification				

Lower Elevation	Address	Direction / Distance	Map ID	Page
INLAND EMPIRE REGION	***12645 6TH ST***	***SSW 1/8 - 1/4 (0.250 mi.)***	***L60***	***396***
Database: LOS ANGELES CO. LF, Date of Government Version: 04/13/2020 Site ID: 2733 Status: Active				
INLAND EMPIRE REGION	***12645 SIXTH STREET***	***SSW 1/8 - 1/4 (0.250 mi.)***	***L62***	***411***
Database: SWF/LF (SWIS), Date of Government Version: 05/11/2020 Facility ID: 36-AA-0423 Operational Status: Active Regulation Status: Notification				

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 5 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TAMCO	***12459 B ARROW ROUTE***	***NNW 1/4 - 1/2 (0.448 mi.)***	***M69***	***463***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0607100309				
TI WIRE	***12459 ARROW ROUTE***	***NNW 1/4 - 1/2 (0.448 mi.)***	***M70***	***485***
Database: LUST, Date of Government Version: 06/08/2020 Status: Completed - Case Closed Global Id: T0607100309				
AMERON STEEL AND WIR	***12459 ARROW HWY***	***NNW 1/4 - 1/2 (0.454 mi.)***	***M71***	***502***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0607100046				
AIR LIQUIDE	***12550 ARROW RTE***	***NNW 1/4 - 1/2 (0.458 mi.)***	***N73***	***504***
Database: LUST, Date of Government Version: 06/08/2020 Status: Completed - Case Closed Global Id: T0607100393				
AIR LIQUIDE	***12550 ARROW RTE***	***NNW 1/4 - 1/2 (0.458 mi.)***	***N74***	***511***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0607100393				

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 4 CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TAMCO	***12459 B ARROW ROUTE***	***NNW 1/4 - 1/2 (0.448 mi.)***	***M69***	***463***
Database: CPS-SLIC, Date of Government Version: 06/08/2020 Database: SLIC REG 8, Date of Government Version: 04/03/2008 Facility Status: Completed - Case Closed Facility Status: Closed Global Id: SLT8R1914124				

Lower Elevation	Address	Direction / Distance	Map ID	Page
ALL STATE RECYCLING	***8949 ETIWANDA AVENUE***	***E 0 - 1/8 (0.073 mi.)***	***E36***	***326***
Database: CPS-SLIC, Date of Government Version: 06/08/2020				

Facility Status: Completed - Case Closed
Global Id: T10000004163

STERLING CAN	8939 ETIWANDA AVENUE	E 1/8 - 1/4 (0.230 mi.)	K54	385
Database: CPS-SLIC, Date of Government Version: 06/08/2020 Facility Status: Completed - Case Closed Global Id: SLT8R1864120				
STERLING CAN	***8939 ETIWANDA AVENUE***	***E 1/8 - 1/4 (0.230 mi.)***	***K55***	***386***
Database: SLIC REG 8, Date of Government Version: 04/03/2008 Facility Status: Closed				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
I.E.U.A. PLANT #4	12811 6TH ST	SSE 1/8 - 1/4 (0.149 mi.)	H46	361
Database: UST, Date of Government Version: 06/08/2020 Facility Id: 97045697				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there are 5 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SA RECYCLING	***8822 ETIWANDA AVE***	***NE 0 - 1/8 (0.047 mi.)***	***D32***	***272***
Database: AST, Date of Government Version: 07/06/2016				
BERNELL HYDRAULICS,	***8810 ETIWANDA AVE***	***NE 0 - 1/8 (0.049 mi.)***	***D35***	***303***
Database: AST, Date of Government Version: 07/06/2016				

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCE ETIWANDA SWITCHY	***9000 ETIWANDA AVE***	***E 0 - 1/8 (0.005 mi.)***	***C25***	***221***
Database: AST, Date of Government Version: 07/06/2016				
IEUA REGIONAL PLANT	***12811 6TH ST***	***SSE 1/8 - 1/4 (0.149 mi.)***	***H45***	***355***
Database: AST, Date of Government Version: 07/06/2016				
INLAND EMPIRE REGION	***12645 6TH ST***	***SSW 1/8 - 1/4 (0.250 mi.)***	***L59***	***391***
Database: AST, Date of Government Version: 07/06/2016				

State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 04/27/2020 has revealed that there are 3 VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SA RECYCLING	***8822 ETIWANDA AVENUE***	***NE 0 - 1/8 (0.047 mi.)***	***D30***	***237***
Status: Active				
Facility Id: 60002634				
CMC REBAR ETIWANDA	***12451 ARROW RTE***	***NW 1/4 - 1/2 (0.442 mi.)***	***M67***	***442***
Status: No Further Action				
Facility Id: 36340066				
TAMCO	***12459 B ARROW ROUTE***	***NNW 1/4 - 1/2 (0.448 mi.)***	***M69***	***463***
Status: No Further Action				
Facility Id: 36340064				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there are 2 WMUDS/SWAT sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GOODMAN LOGISTICS CE	***12455 ARROW ROUTE***	***N 1/4 - 1/2 (0.357 mi.)***	***64***	***414***
SOIL TREATMENT, RANC	12167 ARROW ROUTE	WNW 1/4 - 1/2 (0.395 mi.)	65	436

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 04/20/2020 has revealed that there are 5 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BERNELL HYDRAULICS,	***8810 ETIWANDA AVE***	***NE 0 - 1/8 (0.049 mi.)***	***D35***	***303***
NATIONAL DISTRIBUTIO	***8688 ETIWAND AVE***	***NE 1/8 - 1/4 (0.210 mi.)***	***I49***	***364***
IVP INC DBA V&L REPA	***13053 WHITTRAM AVENU***	***ENE 1/8 - 1/4 (0.223 mi.)***	***J53***	***377***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
IEUA REGIONAL PLANT	***12811 6TH ST***	***SSE 1/8 - 1/4 (0.149 mi.)***	***H45***	***355***

Lower Elevation	Address	Direction / Distance	Map ID	Page
INLAND EMPIRE REGION	***12645 6TH ST***	***SSW 1/8 - 1/4 (0.250 mi.)***	***L59***	***391***

Toxic Pits: The Toxic Pits Cleanup Act Sites database identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. The data come from the State Water Resources Control Board.

A review of the Toxic Pits list, as provided by EDR, and dated 07/01/1995 has revealed that there is 1 Toxic Pits site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHEMWEST INDUSTRIES Closure Date: 06/28/90 Task #: 88001 Status: CLOSED	13425 SAN BERNARDINO	SE 1/2 - 1 (0.924 mi.)	Q84	716

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SIMSMETAL AMERICA Status: A Tank Status: A Comp Number: 54331	***8822 ETIWANDA AVE***	***NE 0 - 1/8 (0.047 mi.)***	***D31***	***258***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAISER STEEL CORPORA Comp Number: 43365	***9401 ETIWANDA AVE***	***SSE 1/8 - 1/4 (0.135 mi.)***	***G42***	***346***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SIMSMETAL AMERICA Facility Id: 00000054331	***8822 ETIWANDA AVE***	***NE 0 - 1/8 (0.047 mi.)***	***D31***	***258***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CAL HOME BRANDS, C-H	***8939 ETIWANDA AV***	***E 1/8 - 1/4 (0.230 mi.)***	***K56***	***386***

Facility Id: 00000016014

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAISER STEEL CORP Facility Id: 36008211 Status: I	9400 ETIWANDA AVE	SSE 1/8 - 1/4 (0.135 mi.)	G41	346
KAISER STEEL CORPORA Facility Id: 36006046 Status: I	***9401 ETIWANDA AVE***	***SSE 1/8 - 1/4 (0.135 mi.)***	***G42***	***346***

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 04/20/2020 has revealed that there are 3 CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BERNELL HYDRAULICS,	***8810 ETIWANDA AVE***	***NE 0 - 1/8 (0.049 mi.)***	***D35***	***303***

Lower Elevation	Address	Direction / Distance	Map ID	Page
IEUA REGIONAL PLANT	***12811 6TH ST***	***SSE 1/8 - 1/4 (0.149 mi.)***	***H45***	***355***
INLAND EMPIRE REGION	***12645 6TH ST***	***SSW 1/8 - 1/4 (0.250 mi.)***	***L59***	***391***

Local Land Records

DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the DEED list, as provided by EDR, and dated 06/01/2020 has revealed that there is 1 DEED site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GOODMAN LOGISTICS CE Status: COMPLETED - CASE CLOSED Envirostor ID: T10000003511	***12455 ARROW ROUTE***	***N 1/4 - 1/2 (0.357 mi.)***	***64***	***414***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/23/2020 has revealed that there are 11 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SA RECYCLING EPA ID:: CAL000359034	8822 ETIWANDA AVE	NE 0 - 1/8 (0.047 mi.)	D28	234
BERNELL HYDRAULICS I EPA ID:: CAL000364475	8810 ETIWANDA AVE	NE 0 - 1/8 (0.049 mi.)	D34	302
YAQUIS TRUCK REPAIR EPA ID:: CAL000431340	8821 ETIWANDA AVE	ENE 0 - 1/8 (0.077 mi.)	F39	343
CHAPARRAL TRUCKING EPA ID:: CAD981438823	***8729 ETIWANDA***	***NE 1/8 - 1/4 (0.159 mi.)***	***I47***	***361***
NATIONAL DISTRIBUTIO EPA ID:: CAL000409980	8688 ETIWANDA AVE	NE 1/8 - 1/4 (0.210 mi.)	I48	363
GEORGIA PACIFIC EPA ID:: CAC003029377	8688 ETIWANDA AVE	NE 1/8 - 1/4 (0.210 mi.)	I50	374
IVP INC DBA V & L RE EPA ID:: CAL000058734	13053 WHITTRAN	ENE 1/8 - 1/4 (0.223 mi.)	J52	376
TRINITY EQUIPMENT RE EPA ID:: CAL000383535	13052 WHITTRAM AVE	ENE 1/8 - 1/4 (0.237 mi.)	J58	390

Lower Elevation	Address	Direction / Distance	Map ID	Page
SOUTHERN CALIFORNIA EPA ID:: CAP000230714	8949 ETIWANDA AVE	E 0 - 1/8 (0.073 mi.)	E37	327
INLAND EMPIRE UTIL A EPA ID:: CAL000179044	12811 6TH ST	SSE 1/8 - 1/4 (0.149 mi.)	H44	354
INLAND EMPIRE REGION EPA ID:: CAL000329825	12645 6TH ST	SSW 1/8 - 1/4 (0.250 mi.)	L61	410

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 05/13/2020 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAISER SHELL CASING		SSE 1/2 - 1 (0.742 mi.)	O77	615

EXECUTIVE SUMMARY

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 06/22/2020 has revealed that there are 3 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TAMCO	***12459 B ARROW ROUTE***	***NNW 1/4 - 1/2 (0.448 mi.)***	***M69***	***463***
Cleanup Status: COMPLETED - CASE CLOSED				
AMERON STEEL AND WIR	***12459 ARROW HWY***	***NNW 1/4 - 1/2 (0.454 mi.)***	***M71***	***502***
Cleanup Status: COMPLETED - CASE CLOSED				
AIR LIQUIDE	***12550 ARROW RTE***	***NNW 1/4 - 1/2 (0.458 mi.)***	***N74***	***511***
Cleanup Status: COMPLETED - CASE CLOSED				

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 3 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TAMCO	***12459 B ARROW ROUTE***	***NNW 1/4 - 1/2 (0.448 mi.)***	***M69***	***463***
Reg Id: 083602379T				
AMERON STEEL AND WIR	12459 ETIWANDA	NNW 1/4 - 1/2 (0.456 mi.)	M72	504
Reg Id: 083600432T				
AIR LIQUIDE	12550 ARROW RT	NNW 1/4 - 1/2 (0.458 mi.)	N75	513
Reg Id: 083602729T				

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 05/18/2020 has revealed that there are 3 HWP sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ADVANCED ENVIRONMENT	***13579 WHITTRAM AVENU***	***ENE 1/2 - 1 (0.908 mi.)***	***P81***	***631***
EPA Id: CAT080025711				
Cleanup Status: OPERATING PERMIT				

Lower Elevation	Address	Direction / Distance	Map ID	Page
EPTC-ETIWANDA	8998 ETIWANDA AVE	E 0 - 1/8 (0.005 mi.)	C24	220
EPA Id: CAD079548574				
Cleanup Status: CLOSED				
CHEMWEST IND INC	***13425 SAN BERNARDINO***	***SE 1/2 - 1 (0.924 mi.)***	***Q83***	***680***
EPA Id: CAD040520975				
Cleanup Status: UNDERGOING CLOSURE				

EXECUTIVE SUMMARY

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

A review of the San Bern. Co. Permit list, as provided by EDR, and dated 02/25/2020 has revealed that there are 12 San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SA RECYCLING Facility Status: INACTIVE Facility Id: FA0006201 Facility Id: FA0007940	***8822 ETIWANDA AVENUE***	***NE 0 - 1/8 (0.047 mi.)***	***D30***	***237***
BERNELL HYDRAULICS, Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0001427	***8810 ETIWANDA AVE***	***NE 0 - 1/8 (0.049 mi.)***	***D35***	***303***
A G TRANSPORT Facility Status: INACTIVE Facility Id: FA0010759 Facility Id: FA0005397 Facility Id: FA0002212	8821 ETIWANDA	ENE 0 - 1/8 (0.077 mi.)	F40	345
NATIONAL DISTRIBUTIO Facility Status: ACTIVE Facility Status: FEE EXEMPT Facility Id: FA0016848	***8688 ETIWAND AVE***	***NE 1/8 - 1/4 (0.210 mi.)***	***I49***	***364***
IVP INC DBA V&L REPA Facility Status: ACTIVE Facility Id: FA0006998	***13053 WHITTRAM AVENU***	***ENE 1/8 - 1/4 (0.223 mi.)***	***J53***	***377***

Lower Elevation	Address	Direction / Distance	Map ID	Page
SOUTHERN CALIFORNIA Facility Status: INACTIVE Facility Id: FA0002929	***8998 ETIWANDA AVENUE***	***E 0 - 1/8 (0.005 mi.)***	***C23***	***217***
SCE ETIWANDA SWITCHY Facility Status: ACTIVE Facility Id: FA0000016	***9000 ETIWANDA AVE***	***E 0 - 1/8 (0.005 mi.)***	***C25***	***221***
VERIZON WIRELESS: CO Facility Status: ACTIVE Facility Id: FA0012882	***9039 ETIWANDA AVE***	***ESE 0 - 1/8 (0.014 mi.)***	***C26***	***225***
ALL STATE PAPER & ME Facility Status: INACTIVE Facility Id: FA0010121	***8889 ETIWANDA AVE***	***ENE 0 - 1/8 (0.021 mi.)***	***B27***	***227***
NEXTEL COMMUNICATION Facility Status: INACTIVE Facility Id: FA0009364	ETIWANDA AVE & 6TH S	SSE 1/8 - 1/4 (0.136 mi.)	G43	354
IEUA REGIONAL PLANT Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0003902	***12811 6TH ST***	***SSE 1/8 - 1/4 (0.149 mi.)***	***H45***	***355***
INLAND EMPIRE REGION Facility Status: ACTIVE Facility Status: INACTIVE	***12645 6TH ST***	***SSW 1/8 - 1/4 (0.250 mi.)***	***L59***	***391***

EXECUTIVE SUMMARY

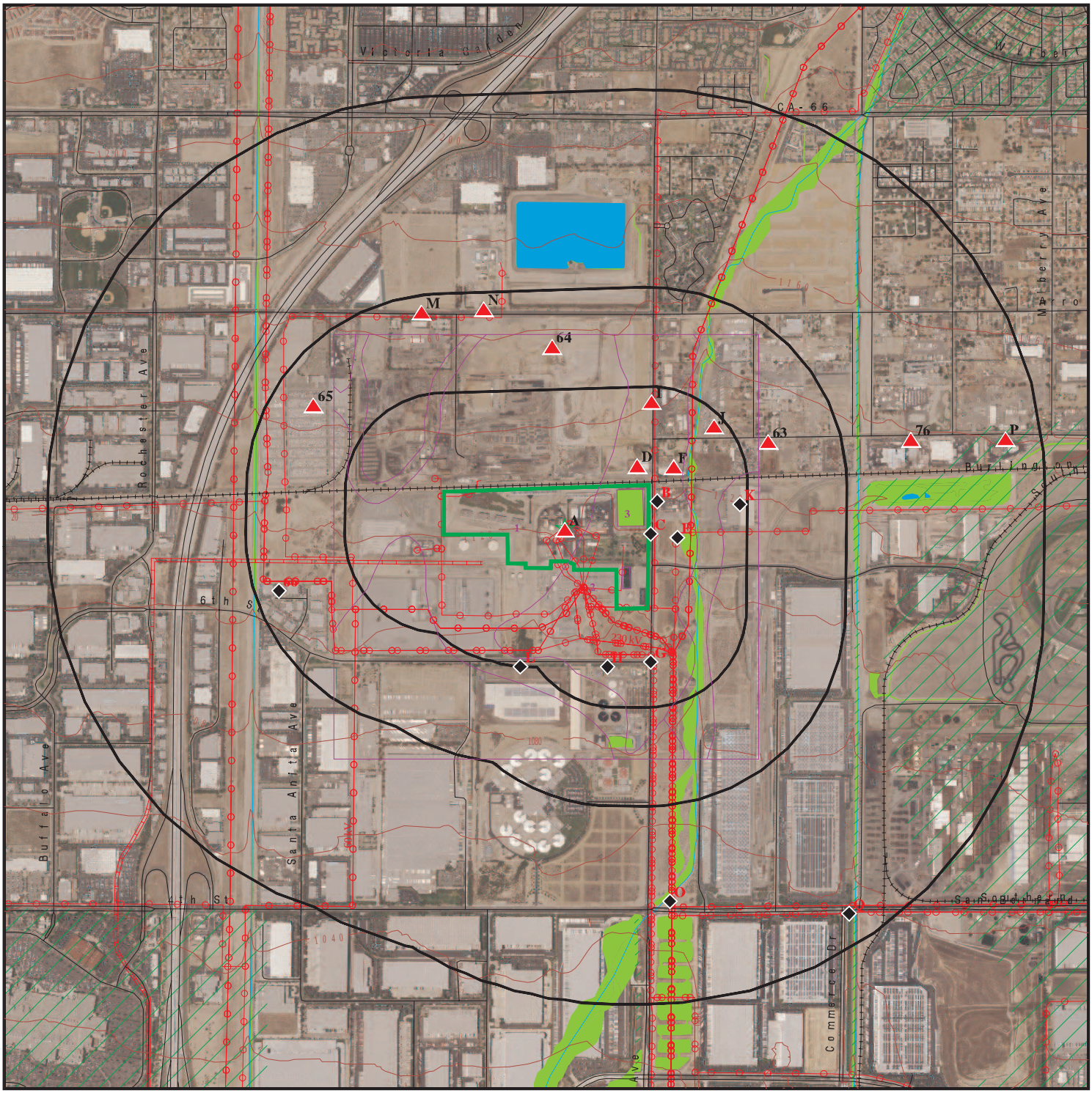
Facility Id: FA0011441

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
ETIWANDA AVENUE	NPDES CDL

OVERVIEW MAP - 6184297.2S

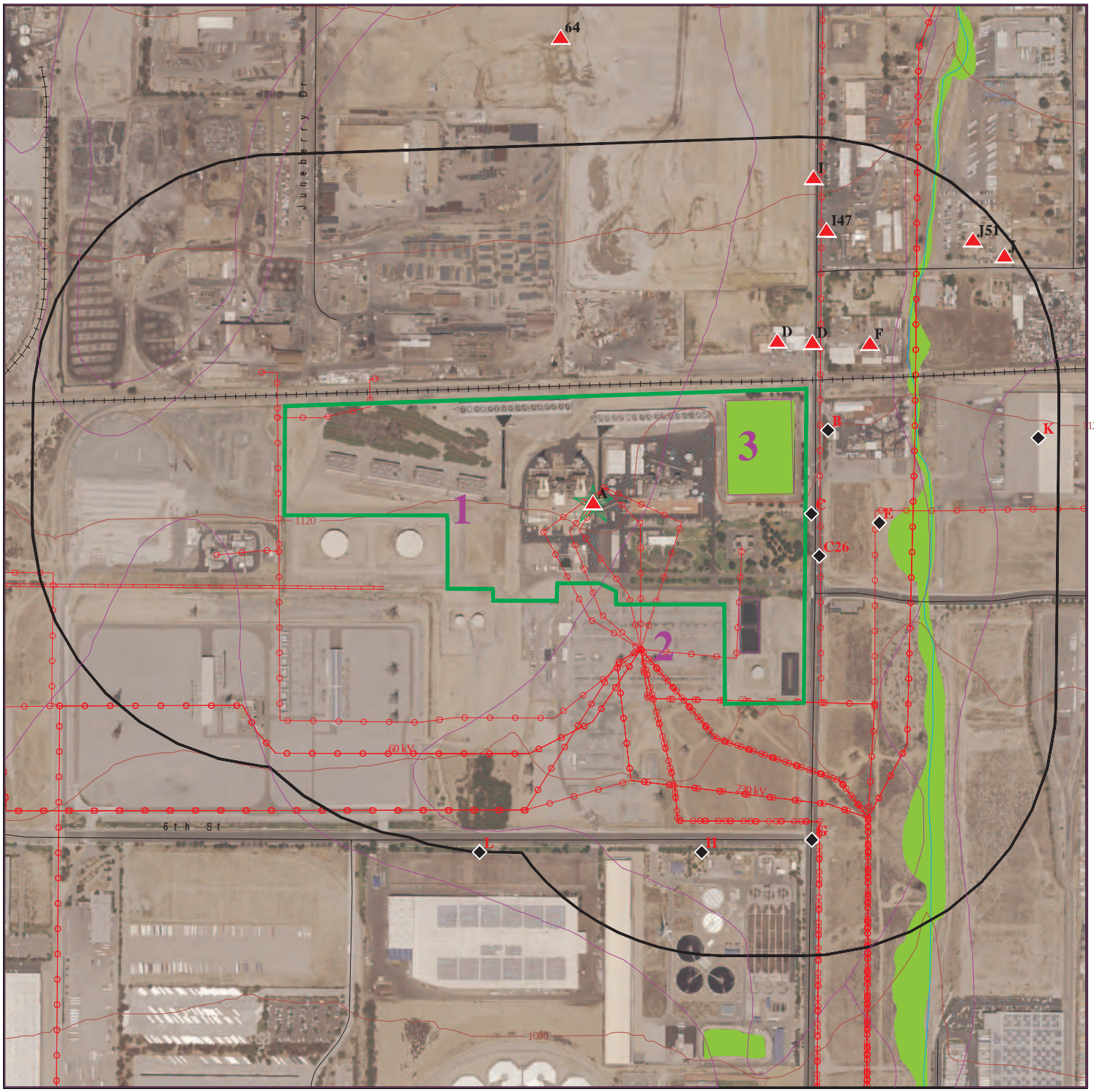


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 8996 Etiwanda Avenue	CLIENT: Path Forward Partners
ADDRESS: 8996 Etiwanda Avenue Rancho Cucamonga CA 91739	CONTACT: Karen Smith
LAT/LONG: 34.09114 / 117.527679	INQUIRY #: 6184297.2s DATE: September 09, 2020 12:39 pm

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DETAIL MAP - 6184297.2S



0 1/8 1/4 1/2 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	8996 Etiwanda Avenue	CLIENT:	Path Forward Partners
ADDRESS:	8996 Etiwanda Avenue Rancho Cucamonga CA 91739	CONTACT:	Karen Smith
LAT/LONG:	34.09114 / 117.527679	INQUIRY #:	6184297.2s
		DATE:	September 09, 2020 12:39 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	1	2	NR	NR	3
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	2	NR	2
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		1	0	NR	NR	NR	1
RCRA-SQG	0.250	2	4	1	NR	NR	NR	7
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		2	0	4	5	NR	11
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	2	1	NR	NR	3
State and tribal leaking storage tank lists								
LUST	0.500		0	0	5	NR	NR	5

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		1	2	1	NR	NR	4
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250	1	3	2	NR	NR	NR	6
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		1	0	2	NR	NR	3
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500	1	0	0	2	NR	NR	3
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250	1	1	4	NR	NR	NR	6
Toxic Pits	1.000		0	0	0	1	NR	1
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	1	1	1	NR	NR	NR	3
HIST UST	0.250	2	1	1	NR	NR	NR	4
CA FID UST	0.250		0	2	NR	NR	NR	2
CERS TANKS	0.250		1	2	NR	NR	NR	3
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	1	NR	NR	1
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001	7	0	NR	NR	NR	NR	7
LDS	0.001	1	0	NR	NR	NR	NR	1
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		4	7	NR	NR	NR	11
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001	1	0	NR	NR	NR	NR	1
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001	1	0	NR	NR	NR	NR	1
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001	1	0	NR	NR	NR	NR	1
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001	1	0	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001	2	0	NR	NR	NR	NR	2
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001	2	0	NR	NR	NR	NR	2
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	3	NR	NR	3
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001	1	0	NR	NR	NR	NR	1
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001	2	0	NR	NR	NR	NR	2
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	3	NR	NR	3
HWP	1.000		1	0	0	2	NR	3
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001	2	0	NR	NR	NR	NR	2
San Bern. Co. Permit	0.250	1	7	5	NR	NR	NR	13
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001	1	0	NR	NR	NR	NR	1
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001	3	0	NR	NR	NR	NR	3
CERS	0.001	1	0	NR	NR	NR	NR	1
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
HWTS	TP	6	NR	NR	NR	NR	NR	6
MINES MRDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		41	28	31	24	11	0	135

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target
Property

NRG ENERGY INC
8996 ETIWANDA AVENUE
ETIWANDA, CA 91739

FINDS **1023692469**
ECHO **N/A**

Site 1 of 21 in cluster A

Actual:
1123 ft.

FINDS:
Registry ID: 110070089502

Click Here:

Environmental Interest/Information System:
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1023692469
Registry ID: 110070089502
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110070089502
Name: NRG ENERGY INC
Address: 8996 ETIWANDA AVENUE
City,State,Zip: ETIWANDA, CA 91739

A2
Target
Property

NRG ENERGY INC
8996 ETIWANDA AVENUE
ETIWANDA, CA 91739

CERS HAZ WASTE **S109287182**
CHMIRS **N/A**
LDS
NPDES
San Bern. Co. Permit
CIWQS
CERS

Site 2 of 21 in cluster A

Actual:
1123 ft.

CERS HAZ WASTE:
Name: ETIWANDA GENERATING STATION
Address: 8996 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 392272
CERS ID: 10038976
CERS Description: Hazardous Waste Generator

CHMIRS:
Name: Not reported
Address: 8996 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
OES Incident Number: 10-1543
OES notification: 03/03/2010
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported

NRG ENERGY INC (Continued) **S109287182**

Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Utilities/Substation
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1600
Year:	2010
Agency:	RRI Energy
Incident Date:	3/3/2010
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Lube Oil
Quantity Released:	35
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported

NRG ENERGY INC (Continued) **S109287182**

Description: Oil lines on a piece of equipment appear to have broken causing the spill.

LDS:

Name:	GENERATING STATION,ETIWANDA
Address:	8996 ETIWANDA
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Global Id:	L10004706415
Latitude:	34.09077
Longitude:	-117.5237
Case Type:	Land Disposal Site
Status:	Completed - Case Closed
Status Date:	11/22/2006
Lead Agency:	Not reported
Caseworker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Not reported
EDR Link ID:	L10004706415
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

NPDES:

Name:	NRG ENERGY INC
Address:	8996 ETIWANDA AVENUE
City,State,Zip:	ETIWANDA, CA 91739
Facility Status:	Terminated
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	213436
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 36I013924
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/24/1998
Termination Date Of Regulatory Measure:	09/13/2018
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	8996 Etiwanda Ave
Discharge Name:	Etiwanda Generating Station
Discharge City:	Etiwanda
Discharge State:	California
Discharge Zip:	91739
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported

NRG ENERGY INC (Continued) **S109287182**

Operator State:	Not reported
Operator Zip:	Not reported
NPDES as of 03/2018:	
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213436
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I013924
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/24/1998
Status:	Active
Status Date:	04/24/1998
Place Size:	64
Place Size Unit:	Acres
Contact:	Marco Tule
Contact Title:	Environmental Specialist
Contact Phone:	909-899-7290
Contact Phone Ext:	Not reported
Contact Email:	Lee.Moore@nrg.com
Operator Name:	Etiwanda Generating Station
Operator Address:	8996 Etiwanda Ave
Operator City:	Etiwanda
Operator State:	California
Operator Zip:	91739
Operator Contact:	Lee Moore
Operator Contact Title:	Plant Manager
Operator Contact Phone:	909-899-7290
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	lee.moore@nrg.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported

NRG ENERGY INC (Continued) **S109287182**

Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Y
Receiving Water Name:	Chadwick Channel then Santa Ana River
Certifier:	Lee Moore
Certifier Title:	Plant Manager
Certification Date:	19-JUN-15
Primary Sic:	4911-Electric Services
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213436
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I013924
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/24/1998
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Etiwanda Generating Station
Discharge Address:	8996 Etiwanda Ave
Discharge City:	Etiwanda
Discharge State:	California
Discharge Zip:	91739
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NRG ENERGY INC (Continued) **S109287182**

Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	NRG ENERGY INC
Address:	8996 ETIWANDA AVENUE
City,State,Zip:	ETIWANDA, CA 91739
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36I013924
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported

NRG ENERGY INC (Continued) **S109287182**

Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	09/13/2018
Operator Name:	Etiwanda Generating Station
Operator Address:	8996 Etiwanda Ave
Operator City:	Etiwanda
Operator State:	California
Operator Zip:	91739

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213436
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I013924
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/24/1998
Status:	Active
Status Date:	04/24/1998
Place Size:	64
Place Size Unit:	Acres
Contact:	Marco Tule
Contact Title:	Environmental Specialist
Contact Phone:	909-899-7290
Contact Phone Ext:	Not reported
Contact Email:	Lee.Moore@nrg.com
Operator Name:	Etiwanda Generating Station
Operator Address:	8996 Etiwanda Ave
Operator City:	Etiwanda
Operator State:	California
Operator Zip:	91739
Operator Contact:	Lee Moore
Operator Contact Title:	Plant Manager
Operator Contact Phone:	909-899-7290
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	lee.moore@nrg.com
Operator Type:	Private Business
Developer:	Not reported

NRG ENERGY INC (Continued) **S109287182**

Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Y
Receiving Water Name:	Chadwick Channel then Santa Ana River
Certifier:	Lee Moore
Certifier Title:	Plant Manager
Certification Date:	19-JUN-15
Primary Sic:	4911-Electric Services
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213436
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I013924
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/24/1998
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Etiwanda Generating Station
Discharge Address:	8996 Etiwanda Ave
Discharge City:	Etiwanda
Discharge State:	California
Discharge Zip:	91739
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported

NRG ENERGY INC (Continued) **S109287182**

Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	ETIWANDA GENERATING STATION
Address:	8996 ETIWANDA AVE

NRG ENERGY INC (Continued) **S109287182**

City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0002943
Owner: GenOn California South, LP
Permit Number: PT0002264
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 09/30/2020

Name: ETIWANDA GENERATING STATION
Address: 8996 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0002943
Owner: GenOn California South, LP
Permit Number: PT0002263
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2020

Name: ETIWANDA GENERATING STATION
Address: 8996 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0002943
Owner: GenOn California South, LP
Permit Number: PT0015103
Permit Category: RMP INSPECTION - PROGRAM 1
Facility Status: INACTIVE
Expiration Date: 09/30/2019

Name: ETIWANDA GENERATING STATION
Address: 8996 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0002943
Owner: GenOn California South, LP
Permit Number: PT0013930
Permit Category: CALARP STATE FEE
Facility Status: INACTIVE
Expiration Date: 09/30/2019

Name: ETIWANDA GENERATING STATION
Address: 8996 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0002943
Owner: GenOn California South, LP
Permit Number: PT0038095
Permit Category: RCRA LARGE QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 09/30/2019

Name: ETIWANDA GENERATING STATION
Address: 8996 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO

NRG ENERGY INC (Continued) **S109287182**

Facility ID: FA0002943
Owner: GenOn California South, LP
Permit Number: PT0002265
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 09/30/2019

Name: ETIWANDA GENERATING STATION
Address: 8996 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0002943
Owner: GenOn California South, LP
Permit Number: PT0013931
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 09/30/2013

Name: ETIWANDA GENERATING STATION
Address: 8996 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0002943
Owner: GenOn California South, LP
Permit Number: PT0013929
Permit Category: CALARP FACILITY PERMIT
Facility Status: INACTIVE
Expiration Date: 09/30/2013

Name: ETIWANDA GENERATING STATION
Address: 8996 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0002943
Owner: GenOn California South, LP
Permit Number: PT0002262
Permit Category: CE ANNUAL FEE
Facility Status: INACTIVE
Expiration Date: 09/30/2003

CIWQS:
Name: GENERATING STATION,ETIWANDA
Address: 8996 ETIWANDA
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Agency: Mountain Vista Power Generation LLC
Agency Address: 1111 Louisiana Street 16 Floor, Houston, TX 77002
Place/Project Type: Other
SIC/NAICS: 4911
Region: 8
Program: LNDISP
Regulatory Measure Status: Historical
Regulatory Measure Type: WDR
Order Number: 94-021
WDID: 8 362300001
NPDES Number: Not reported
Adoption Date: 1/28/1994
Effective Date: 01/28/1994

NRG ENERGY INC (Continued) **S109287182**

Termination Date:	07/19/2001
Expiration/Review Date:	01/26/2004
Design Flow:	0
Major/Minor:	Not reported
Complexity:	A
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.090764
Longitude:	-117.523795

Name:	NRG ENERGY INC
Address:	8996 ETIWANDA AVENUE
City,State,Zip:	ETIWANDA, CA 91739
Agency:	Etiwanda Generating Station
Agency Address:	8996 Etiwanda Ave 8996 Etiwanda Ave., Etiwanda, CA 91739
Place/Project Type:	Industrial - Electric Services
SIC/NAICS:	4911
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I013924
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/24/1998
Termination Date:	09/13/2018
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.09076
Longitude:	-117.52379

Name:	NRG ENERGY INC
Address:	8996 ETIWANDA AVENUE
City,State,Zip:	ETIWANDA, CA 91739
Agency:	Southern California Edison
Agency Address:	14005 S Benson Ave, Chino, CA 91710
Place/Project Type:	Industrial - Electric Services
SIC/NAICS:	4911
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I006396
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/24/1992
Termination Date:	09/18/2000
Expiration/Review Date:	Not reported
Design Flow:	Not reported

NRG ENERGY INC (Continued) **S109287182**

Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 34.09076
Longitude: -117.52379

CERS:
Name: GENERATING STATION,ETIWANDA
Address: 8996 ETIWANDA
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 205442
CERS ID: L10004706415
CERS Description: Land Disposal Site

Name: ETIWANDA GENERATING STATION
Address: 8996 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 392272
CERS ID: 110002414138
CERS Description: US EPA Air Emission Inventory System (EIS)

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-10-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-13-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-13-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-21-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: APSA INSPECTION
Eval Division: San Bernardino County Fire Department

NRG ENERGY INC (Continued) **S109287182**

Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-21-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION-ETIWANDA GEN
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-21-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION-ETIWANDA GEN
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-10-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-13-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-13-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-21-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE CALARP INSPECTION-ETIWANDA GEN
Eval Division: San Bernardino County Fire Department
Eval Program: CalARP
Eval Source: CERS

NRG ENERGY INC (Continued) **S109287182**

Enforcement Action:

Site ID:	392272
Site Name:	ETIWANDA GENERATING STATION
Site Address:	8996 ETIWANDA AVE
Site City:	RANCHO CUCAMONGA
Site Zip:	91739
Enf Action Date:	10-21-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	UNSPEC
Enf Action Source:	CERS

Coordinates:

Site ID:	392272
Facility Name:	ETIWANDA GENERATING STATION
Env Int Type Code:	FRS-AIR
Program ID:	110002414138
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	34.089840
Longitude:	-117.523830

Affiliation:

Affiliation Type Desc:	Administrative Contact
Entity Name:	LACROIX PAUL
Entity Title:	Not reported
Affiliation Address:	8996 ETIWANDA AVE
Affiliation City:	ETIWANDA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401

Affiliation Type Desc:	Environmental Contact
Entity Name:	JOHN SLAYTON
Entity Title:	Not reported
Affiliation Address:	2500 E VICTORIA ST
Affiliation City:	COMPTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Regional Board Caseworker

NRG ENERGY INC (Continued) **S109287182**

Entity Name:	RAY AKHTARSHAD SANTA ANA RWQCB REGN 8
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREETNA SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Wendy Sanders
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	JAY K BELLINGHAM
Entity Title:	VP PLANT OPERATIONS WEST REGION
Affiliation Address:	5970 FLEET STREET
Affiliation City:	CARLSBAD
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Lee Moore
Entity Title:	Plant Manager
Affiliation Address:	8996 ETIWANDA AVENUE
Affiliation City:	RANCHOCUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	SHARENE SHEALEY
Entity Title:	MANAGER, AIR RESOURCES
Affiliation Address:	WILL COUNTY GENERATING STATION529 E 135TH STREET
Affiliation City:	ROMEOVILLE
Affiliation State:	IL
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Tom Di Ciolli
Entity Title:	Plant Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

NRG ENERGY INC (Continued) **S109287182**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Etiwanda Generating Station
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Jeff Edwards
Entity Title:	Not reported
Affiliation Address:	8996 Etiwanda Ave
Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739-9173
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	8996 ETIWANDA AVE
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	GenOn California South, LP
Entity Title:	Not reported
Affiliation Address:	6635 Edison Drive
Affiliation City:	Oxnard
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	93033
Affiliation Phone:	(805) 986-7291
Affiliation Type Desc:	Operator
Entity Name:	Etiwanda Generating Station
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 899-7290
Affiliation Type Desc:	Environmental Contact
Entity Name:	MARCO TULE
Entity Title:	Not reported
Affiliation Address:	8996 ETIWANDA AVE
Affiliation City:	RANCHOCUCAMONGA

NRG ENERGY INC (Continued) **S109287182**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: GENERATING STATION,ETIWANDA
Address: 8996 ETIWANDA
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 205442
CERS ID: 226993
CERS Description: Land Disposal

Name: ETIWANDA GENERATING STATION
Address: 8996 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 392272
CERS ID: 10038976
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-10-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-13-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-13-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-21-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: APSA INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

NRG ENERGY INC (Continued) **S109287182**

Eval Date: 10-21-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION-ETIWANDA GEN
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-21-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION-ETIWANDA GEN
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-10-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-13-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-13-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-21-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE CALARP INSPECTION-ETIWANDA GEN
Eval Division: San Bernardino County Fire Department
Eval Program: CalARP
Eval Source: CERS

Enforcement Action:
Site ID: 392272
Site Name: ETIWANDA GENERATING STATION
Site Address: 8996 ETIWANDA AVE

NRG ENERGY INC (Continued) **S109287182**

Site City:	RANCHO CUCAMONGA
Site Zip:	91739
Enf Action Date:	10-21-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	UNSPEC
Enf Action Source:	CERS

Coordinates:

Site ID:	392272
Facility Name:	ETIWANDA GENERATING STATION
Env Int Type Code:	FRS-AIR
Program ID:	110002414138
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	34.089840
Longitude:	-117.523830

Affiliation:

Affiliation Type Desc:	Administrative Contact
Entity Name:	LACROIX PAUL
Entity Title:	Not reported
Affiliation Address:	8996 ETIWANDA AVE
Affiliation City:	ETIWANDA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401

Affiliation Type Desc:	Environmental Contact
Entity Name:	JOHN SLAYTON
Entity Title:	Not reported
Affiliation Address:	2500 E VICTORIA ST
Affiliation City:	COMPTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	RAY AKHTARSHAD SANTA ANA RWQCB REGN 8
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREETNA SUITE 500
Affiliation City:	RIVERSIDE

NRG ENERGY INC (Continued) **S109287182**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Wendy Sanders
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	JAY K BELLINGHAM
Entity Title:	VP PLANT OPERATIONS WEST REGION
Affiliation Address:	5970 FLEET STREET
Affiliation City:	CARLSBAD
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Lee Moore
Entity Title:	Plant Manager
Affiliation Address:	8996 ETIWANDA AVENUE
Affiliation City:	RANCHOCUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	SHARENE SHEALEY
Entity Title:	MANAGER, AIR RESOURCES
Affiliation Address:	WILL COUNTY GENERATING STATION529 E 135TH STREET
Affiliation City:	ROMEOVILLE
Affiliation State:	IL
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Tom Di Ciolli
Entity Title:	Plant Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Etiwanda Generating Station

NRG ENERGY INC (Continued) **S109287182**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Jeff Edwards
Entity Title:	Not reported
Affiliation Address:	8996 Etiwanda Ave
Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739-9173
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	8996 ETIWANDA AVE
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	GenOn California South, LP
Entity Title:	Not reported
Affiliation Address:	6635 Edison Drive
Affiliation City:	Oxnard
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	93033
Affiliation Phone:	(805) 986-7291
Affiliation Type Desc:	Operator
Entity Name:	Etiwanda Generating Station
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 899-7290
Affiliation Type Desc:	Environmental Contact
Entity Name:	MARCO TULE
Entity Title:	Not reported
Affiliation Address:	8996 ETIWANDA AVE
Affiliation City:	RANCHOCUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

A3 Target Property | **ETIWANDA GENERATING STATION**
8996 ETIWANDA ROAD
RANCHO CUCAMONGA, CA 91739 | **COAL ASH DOE** | **1025958369**
N/A

Site 3 of 21 in cluster A

Actual: 1123 ft.

COAL ASH DOE:

Year:	2018
Plant Code:	331
Name:	ETIWANDA GENERATING STATION
Address:	8996 ETIWANDA ROAD
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
By Product Description:	Fly ash from units with dry FGD
Disposal Landfill:	.
Disposal Ponds:	.
Disposal Offsite:	.
Sold:	.
Used Onsite:	.
Used Offsite:	.
Stored Onsite:	.
Stored Offsite:	.
Total:	.
No Byproducts:	Y
By Product Description:	Bottom ash from standard boiler units
Disposal Landfill:	.
Disposal Ponds:	.
Disposal Offsite:	.
Sold:	.
Used Onsite:	.
Used Offsite:	.
Stored Onsite:	.
Stored Offsite:	.
Total:	.
No Byproducts:	Y
By Product Description:	Bottom (bed) ash from FBC units
Disposal Landfill:	.
Disposal Ponds:	.
Disposal Offsite:	.
Sold:	.
Used Onsite:	.
Used Offsite:	.
Stored Onsite:	.
Stored Offsite:	.
Total:	.
No Byproducts:	Y
By Product Description:	FGD Gypsum
Disposal Landfill:	.
Disposal Ponds:	.
Disposal Offsite:	.
Sold:	.
Used Onsite:	.
Used Offsite:	.
Stored Onsite:	.
Stored Offsite:	.
Total:	.
No Byproducts:	Y

ETIWANDA GENERATING STATION (Continued) **1025958369**

By Product Description:	Ash from coal gasification (IGCC) units
Disposal Landfill:	.
Disposal Ponds:	.
Disposal Offsite:	.
Sold:	.
Used Onsite:	.
Used Offsite:	.
Stored Onsite:	.
Stored Offsite:	.
Total:	.
No Byproducts:	Y

By Product Description:	Fly ash from standard boiler/PCD units
Disposal Landfill:	.
Disposal Ponds:	.
Disposal Offsite:	.
Sold:	.
Used Onsite:	.
Used Offsite:	.
Stored Onsite:	.
Stored Offsite:	.
Total:	.
No Byproducts:	Y

By Product Description:	Fly ash from FBC units
Disposal Landfill:	.
Disposal Ponds:	.
Disposal Offsite:	.
Sold:	.
Used Onsite:	.
Used Offsite:	.
Stored Onsite:	.
Stored Offsite:	.
Total:	.
No Byproducts:	Y

A4 **NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST** **AST** **U001569542**
Target **8996 ETIWANDA AVE** **SWEEPS UST** **N/A**
Property **ETIWANDA, CA 91739** **HIST UST**
CHMIRS
Site 4 of 21 in cluster A **EMI**
WDS

Actual: 1123 ft.

AST:

Name:	ETIWANDA GENERATING STATION
Address:	8996 ETIWANDA AVE
City/Zip:	RANCHO CUCAMONGA,91739
Certified Unified Program Agencies:	Not reported
Owner:	NRG California South LP
Total Gallons:	Not reported
CERSID:	10038976
Facility ID:	FA0002943
Business Name:	ETIWANDA GENERATING STATION
Phone:	(909) 899-7260
Fax:	(909) 899-7222
Mailing Address:	8996 ETIWANDA AVE
Mailing Address City:	RANCHO CUCAMONGA
Mailing Address State:	CA

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Mailing Address Zip Code:	91739
Operator Name:	Etiwanda Generating Station
Operator Phone:	909-899-7290
Owner Phone:	(909) 899-7260
Owner Mail Address:	8996 ETIWANDA AVE
Owner State:	CA
Owner Zip Code:	Not reported
Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	CAR000038158

Name:	ETIWANDA GENERATING STATION
Address:	8996 ETIWANDA AVE
City/Zip:	RANCHO CUCAMONGA,
Certified Unified Program Agencies:	San Bernardino
Owner:	RELIANT ENERGY ETIWANDA
Total Gallons:	210,850
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

SWEEPS UST:

Name:	ETIWANDA GENERATING STATION
Address:	8996 ETIWANDA AVE
City:	ETIWANDA
Status:	Active
Comp Number:	60030
Number:	9
Board Of Equalization:	Not reported
Referral Date:	08-28-91

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Action Date: 08-28-91
Created Date: 02-29-88
Owner Tank Id: 455R
SWRCB Tank Id: 36-000-060030-000001
Tank Status: A
Capacity: 550
Active Date: 06-28-88
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: 1

HIST UST:
Name: ETIWANDA GENERATING STATION
Address: 8996 ETIWANDA AVE
City,State,Zip: ETIWANDA, CA 91739
File Number: 0002A6D8
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A6D8.pdf
Region: STATE
Facility ID: 00000022179
Facility Type: Other
Other Type: ELECTRIC UTILITY
Contact Name: M. B. JOSEPH, ENG. III
Telephone: 8185721801
Owner Name: SOUTHERN CALIFORNIA EDISON CO.
Owner Address: 2244 WALNUT GROVE AVENUE
Owner City,St,Zip: ROSEMEAD, CA 91770
Total Tanks: 0007

Tank Num: 001
Container Num: 145
Year Installed: 1970
Tank Capacity: 00000480
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 001
Container Num: 455
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: 1
Container Construction Thickness: X
Leak Detection: None

Tank Num: 001
Container Num: 145
Year Installed: 1970
Tank Capacity: 00000480
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 001

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Container Num:	145
Year Installed:	1970
Tank Capacity:	00000480
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	001
Container Num:	455
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	1
Container Construction Thickness:	X
Leak Detection:	None

Tank Num:	001
Container Num:	455
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	1
Container Construction Thickness:	X
Leak Detection:	None

Tank Num:	001
Container Num:	406
Year Installed:	1952
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	12
Leak Detection:	None

Tank Num:	001
Container Num:	406
Year Installed:	1952
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	12
Leak Detection:	None

Tank Num:	001
Container Num:	406
Year Installed:	1952
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	12
Leak Detection:	None

Tank Num:	002
Container Num:	146
Year Installed:	1950
Tank Capacity:	00001300

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	002
Container Num:	146
Year Installed:	1950
Tank Capacity:	00001300
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	002
Container Num:	146
Year Installed:	1950
Tank Capacity:	00001300
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	002
Container Num:	407
Year Installed:	1952
Tank Capacity:	00000120
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	002
Container Num:	407
Year Installed:	1952
Tank Capacity:	00000120
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	002
Container Num:	407
Year Installed:	1952
Tank Capacity:	00000120
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	003
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Leak Detection:	None
Tank Num:	003
Container Num:	147
Year Installed:	1980
Tank Capacity:	00064000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	003
Container Num:	147
Year Installed:	1980
Tank Capacity:	00064000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	003
Container Num:	147
Year Installed:	1980
Tank Capacity:	00064000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	003
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	003
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	004
Container Num:	7
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	004

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Container Num: 7
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 004
Container Num: 148
Year Installed: Not reported
Tank Capacity: 01600000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 004
Container Num: 148
Year Installed: Not reported
Tank Capacity: 01600000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 004
Container Num: 148
Year Installed: Not reported
Tank Capacity: 01600000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 004
Container Num: 7
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 005
Container Num: 149
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: WASTE
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 005
Container Num: 149
Year Installed: Not reported
Tank Capacity: 00000500

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Tank Used for:	WASTE
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	005
Container Num:	6
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	005
Container Num:	6
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	005
Container Num:	6
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	005
Container Num:	149
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	WASTE
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	006
Container Num:	150
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	WASTE
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	006
Container Num:	150
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	WASTE
Type of Fuel:	06
Container Construction Thickness:	Not reported

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Leak Detection: Visual

Tank Num: 006
Container Num: 150
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: WASTE
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 006
Container Num: 5
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 006
Container Num: 5
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 006
Container Num: 5
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 007
Container Num: 151
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: WASTE
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 007
Container Num: 151
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: WASTE
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 007

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	007
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	007
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	007
Container Num:	151
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	WASTE
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	008
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	008
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	008
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00000000

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 009
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 009
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 009
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

CHMIRS:
Name: Not reported
Address: 8996 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
OES Incident Number: 16-3638
OES notification: 06/16/2016
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Utilities/Substation
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1430
Year:	2016
Agency:	NRG Energy
Incident Date:	06/15/2016
Admin Agency:	San Bernardino County Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	lube oil
Quantity Released:	42
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	RP states: A Pressure guage ruptured resulting in a leak of approximately 42 gallons of lube oil within a containment area. Containment area caught entire release; no contact with any medium (water, soil, etc.). Release is contained and no longer releas

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

EMI:

Name:	SO CAL EDISON CO (EIS USE)
Address:	8996 ETIWANDA AV
City,State,Zip:	ETIWANDA, CA 91739
Year:	1987
County Code:	36
Air Basin:	SC
Facility ID:	800224
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	103
Reactive Organic Gases Tons/Yr:	49
Carbon Monoxide Emissions Tons/Yr:	162
NOX - Oxides of Nitrogen Tons/Yr:	773
SOX - Oxides of Sulphur Tons/Yr:	64
Particulate Matter Tons/Yr:	36
Part. Matter 10 Micrometers and Smllr Tons/Yr:	35

Name:	SO CAL EDISON CO (EIS USE)
Address:	8996 ETIWANDA AV
City,State,Zip:	ETIWANDA, CA 91739
Year:	1990
County Code:	36
Air Basin:	SC
Facility ID:	800224
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	71
Reactive Organic Gases Tons/Yr:	41
Carbon Monoxide Emissions Tons/Yr:	101
NOX - Oxides of Nitrogen Tons/Yr:	627
SOX - Oxides of Sulphur Tons/Yr:	182
Particulate Matter Tons/Yr:	45
Part. Matter 10 Micrometers and Smllr Tons/Yr:	44

Name:	SO CAL EDISON CO (EIS USE)
Address:	8996 ETIWANDA AV
City,State,Zip:	ETIWANDA, CA 91739
Year:	1995
County Code:	36
Air Basin:	SC
Facility ID:	800224
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	220
Reactive Organic Gases Tons/Yr:	95
Carbon Monoxide Emissions Tons/Yr:	139
NOX - Oxides of Nitrogen Tons/Yr:	528

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

SOX - Oxides of Sulphur Tons/Yr:	9
Particulate Matter Tons/Yr:	23
Part. Matter 10 Micrometers and Smllr Tons/Yr:	23

Name:	SO CAL EDISON CO (EIS USE)
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	1996
County Code:	36
Air Basin:	SC
Facility ID:	800224
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	29
Reactive Organic Gases Tons/Yr:	12
Carbon Monoxide Emissions Tons/Yr:	81
NOX - Oxides of Nitrogen Tons/Yr:	370
SOX - Oxides of Sulphur Tons/Yr:	4
Particulate Matter Tons/Yr:	13
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13

Name:	SO CAL EDISON CO (EIS USE)
Address:	8996 ETIWANDA AV
City,State,Zip:	ETIWANDA, CA 91739
Year:	1997
County Code:	36
Air Basin:	SC
Facility ID:	800224
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	41
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	87
NOX - Oxides of Nitrogen Tons/Yr:	451
SOX - Oxides of Sulphur Tons/Yr:	5
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers and Smllr Tons/Yr:	14

Name:	SO CAL EDISON CO (EIS USE)
Address:	8996 ETIWANDA AV
City,State,Zip:	ETIWANDA, CA 91739
Year:	1998
County Code:	36
Air Basin:	SC
Facility ID:	800224
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	47

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Reactive Organic Gases Tons/Yr:	11
Carbon Monoxide Emissions Tons/Yr:	87
NOX - Oxides of Nitrogen Tons/Yr:	451
SOX - Oxides of Sulphur Tons/Yr:	5
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers and Smllr Tons/Yr:	14

Name:	SO CAL EDISON CO (EIS USE)
Address:	8996 ETIWANDA AV
City,State,Zip:	ETIWANDA, CA 91739
Year:	1999
County Code:	36
Air Basin:	SC
Facility ID:	800224
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	41
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	87
NOX - Oxides of Nitrogen Tons/Yr:	451
SOX - Oxides of Sulphur Tons/Yr:	5
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers and Smllr Tons/Yr:	14

Name:	SO CAL EDISON CO (EIS USE)
Address:	8996 ETIWANDA AV
City,State,Zip:	ETIWANDA, CA 91739
Year:	2000
County Code:	36
Air Basin:	SC
Facility ID:	800224
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	41
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	87
NOX - Oxides of Nitrogen Tons/Yr:	451
SOX - Oxides of Sulphur Tons/Yr:	5
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers and Smllr Tons/Yr:	14

Name:	MOUNTAIN VISTA POWER GENERATION, LLC
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2001
County Code:	36
Air Basin:	SC
Facility ID:	115315
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	403
Reactive Organic Gases Tons/Yr:	58
Carbon Monoxide Emissions Tons/Yr:	300
NOX - Oxides of Nitrogen Tons/Yr:	1215
SOX - Oxides of Sulphur Tons/Yr:	9
Particulate Matter Tons/Yr:	12
Part. Matter 10 Micrometers and Smllr Tons/Yr:	12

Name:	RELIANT ENERGY ETIWANDA, INC.
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2002
County Code:	36
Air Basin:	SC
Facility ID:	115315
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	69
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	17
NOX - Oxides of Nitrogen Tons/Yr:	115
SOX - Oxides of Sulphur Tons/Yr:	2
Particulate Matter Tons/Yr:	15
Part. Matter 10 Micrometers and Smllr Tons/Yr:	15

Name:	RELIANT ENERGY ETIWANDA, INC.
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2003
County Code:	36
Air Basin:	SC
Facility ID:	115315
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	69
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	17
NOX - Oxides of Nitrogen Tons/Yr:	115
SOX - Oxides of Sulphur Tons/Yr:	2
Particulate Matter Tons/Yr:	15
Part. Matter 10 Micrometers and Smllr Tons/Yr:	15

Name:	RELIANT ENERGY ETIWANDA, INC.
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2004
County Code:	36
Air Basin:	SC
Facility ID:	115315

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	69.4891237
Reactive Organic Gases Tons/Yr:	10.32
Carbon Monoxide Emissions Tons/Yr:	16.902625
NOX - Oxides of Nitrogen Tons/Yr:	115.12183
SOX - Oxides of Sulphur Tons/Yr:	1.7911697
Particulate Matter Tons/Yr:	14.941123
Part. Matter 10 Micrometers and Smllr Tons/Yr:	14.86

Name:	RELIANT ENERGY ETIWANDA, INC.
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2005
County Code:	36
Air Basin:	SC
Facility ID:	115315
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.230645
Reactive Organic Gases Tons/Yr:	2.209413954
Carbon Monoxide Emissions Tons/Yr:	270.910345
NOX - Oxides of Nitrogen Tons/Yr:	17.23529
SOX - Oxides of Sulphur Tons/Yr:	1.79362675
Particulate Matter Tons/Yr:	5.850055
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5.81905413

Name:	RELIANT ENERGY ETIWANDA, INC.
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2006
County Code:	36
Air Basin:	SC
Facility ID:	115315
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	13.44679893897444562
Reactive Organic Gases Tons/Yr:	5.67
Carbon Monoxide Emissions Tons/Yr:	.003
NOX - Oxides of Nitrogen Tons/Yr:	23.283
SOX - Oxides of Sulphur Tons/Yr:	2.009
Particulate Matter Tons/Yr:	97.117
Part. Matter 10 Micrometers and Smllr Tons/Yr:	74.2543

Name:	RELIANT ENERGY ETIWANDA, INC.
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2007

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

County Code:	36
Air Basin:	SC
Facility ID:	115315
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	13.44679893897444562
Reactive Organic Gases Tons/Yr:	5.67
Carbon Monoxide Emissions Tons/Yr:	.003
NOX - Oxides of Nitrogen Tons/Yr:	23.283
SOX - Oxides of Sulphur Tons/Yr:	2.009
Particulate Matter Tons/Yr:	97.117
Part. Matter 10 Micrometers and Smllr Tons/Yr:	74.2543

Name:	RRI ENERGY ETIWANDA, INC.
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2008
County Code:	36
Air Basin:	SC
Facility ID:	115315
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	19.68604154681649873
Reactive Organic Gases Tons/Yr:	8.31031399338
Carbon Monoxide Emissions Tons/Yr:	.0804866525
NOX - Oxides of Nitrogen Tons/Yr:	33.37
SOX - Oxides of Sulphur Tons/Yr:	2.950001320375
Particulate Matter Tons/Yr:	145.6900188625
Part. Matter 10 Micrometers and Smllr Tons/Yr:	111.442018749325

Name:	MOUNTAIN VISTA POWER GENERATION, LLC
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2009
County Code:	36
Air Basin:	SC
Facility ID:	115315
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11.829317348163199
Reactive Organic Gases Tons/Yr:	4.9909397149999997
Carbon Monoxide Emissions Tons/Yr:	3.70146
NOX - Oxides of Nitrogen Tons/Yr:	21.358409999999999
SOX - Oxides of Sulphur Tons/Yr:	1.7500039599999999
Particulate Matter Tons/Yr:	92.210056600000001
Part. Matter 10 Micrometers and Smllr Tons/Yr:	69.962056260400004

Name:	MOUNTAIN VISTA POWER GENERATION, LLC

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2010
County Code:	36
Air Basin:	SC
Facility ID:	115315
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.2970444096097298
Reactive Organic Gases Tons/Yr:	2.2289206838200002
Carbon Monoxide Emissions Tons/Yr:	13.51524
NOX - Oxides of Nitrogen Tons/Yr:	11.02749
SOX - Oxides of Sulphur Tons/Yr:	0.80902874999999996
Particulate Matter Tons/Yr:	40.495890344999999
Part. Matter 10 Micrometers and Smllr Tons/Yr:	31.228208576699998

Name:	MOUNTAIN VISTA POWER GENERATION, LLC
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2011
County Code:	36
Air Basin:	SC
Facility ID:	115315
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.4185267619
Reactive Organic Gases Tons/Yr:	1.02065
Carbon Monoxide Emissions Tons/Yr:	8.12497
NOX - Oxides of Nitrogen Tons/Yr:	5.31248
SOX - Oxides of Sulphur Tons/Yr:	0.4708535
Particulate Matter Tons/Yr:	49.08651
Part. Matter 10 Micrometers and Smllr Tons/Yr:	36.30818322

Name:	NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2013
County Code:	36
Air Basin:	SC
Facility ID:	115315
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.0262775421
Reactive Organic Gases Tons/Yr:	3.04450434
Carbon Monoxide Emissions Tons/Yr:	82.88357
NOX - Oxides of Nitrogen Tons/Yr:	14.61257381
SOX - Oxides of Sulphur Tons/Yr:	1.045700372
Particulate Matter Tons/Yr:	101.98080465

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

Part. Matter 10 Micrometers and Smllr Tons/Yr:74.94671121

Name:	NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2014
County Code:	36
Air Basin:	SC
Facility ID:	115315
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.4863389252
Reactive Organic Gases Tons/Yr:	2.43788
Carbon Monoxide Emissions Tons/Yr:	56.5205
NOX - Oxides of Nitrogen Tons/Yr:	10.39649
SOX - Oxides of Sulphur Tons/Yr:	0.81361
Particulate Matter Tons/Yr:	68.80804
Part. Matter 10 Micrometers and Smllr Tons/Yr:	66.31893576

Name:	NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2015
County Code:	36
Air Basin:	SC
Facility ID:	115315
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.484019022
Reactive Organic Gases Tons/Yr:	1.588110148
Carbon Monoxide Emissions Tons/Yr:	37.575516235
NOX - Oxides of Nitrogen Tons/Yr:	6.650390265
SOX - Oxides of Sulphur Tons/Yr:	0.518025547
Particulate Matter Tons/Yr:	41.153134149
Part. Matter 10 Micrometers and Smllr Tons/Yr:	39.695419112

Name:	NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
Year:	2016
County Code:	36
Air Basin:	SC
Facility ID:	115315
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.5552361675
Reactive Organic Gases Tons/Yr:	1.570942
Carbon Monoxide Emissions Tons/Yr:	46.66242

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

NOX - Oxides of Nitrogen Tons/Yr: 7.8702
SOX - Oxides of Sulphur Tons/Yr: 0.57008744
Particulate Matter Tons/Yr: 45.740675
Part. Matter 10 Micrometers and Smllr Tons/Yr: 44.186424152

Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST
Address: 8996 ETIWANDA AVE
City,State,Zip: ETIWANDA, CA 91739
Year: 2017
County Code: 36
Air Basin: SC
Facility ID: 115315
Air District Name: SC
SIC Code: 4911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 3.3197959563
Reactive Organic Gases Tons/Yr: 1.466686
Carbon Monoxide Emissions Tons/Yr: 42.042009
NOX - Oxides of Nitrogen Tons/Yr: 7.0881
SOX - Oxides of Sulphur Tons/Yr: 0.5300987
Particulate Matter Tons/Yr: 46.200514
Part. Matter 10 Micrometers and Smllr Tons/Yr: 44.59226824

Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST
Address: 8996 ETIWANDA AVE
City,State,Zip: ETIWANDA, CA 91739
Year: 2018
County Code: 36
Air Basin: SC
Facility ID: 115315
Air District Name: SC
SIC Code: 4911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.0098356704682
Reactive Organic Gases Tons/Yr: 0.008530794
Carbon Monoxide Emissions Tons/Yr: 0.0230899
NOX - Oxides of Nitrogen Tons/Yr: 0.1056005
SOX - Oxides of Sulphur Tons/Yr: 5.721e-005
Particulate Matter Tons/Yr: 0.007510125
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.00746506425

WDS:
Name: ETIWANDA GENERATING STATION
Address: 8996 ETIWANDA AVE
City: ETIWANDA
Facility ID: Santa Ana River 36I013924
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN ST (Continued) **U001569542**

	under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	Not reported
Facility Contact:	Not reported
Agency Name:	SOUTHERN CALIFORNIA EDISONROS
Agency Address:	PO BOX 800 RM 405 - ENVAFF
Agency City,St,Zip:	ROSEMEAD 91770
Agency Contact:	JAMES A. KELLY
Agency Telephone:	Not reported
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

A5 **EPTC ETIWANDA** **RCRA-SQG** **1000167575**
Target **8996 ETIWANDA AVE.** **CAD079548574**
Property **ETIWANDA, CA 91739**

Site 5 of 21 in cluster A

Actual:
1123 ft.

RCRA-SQG:

Date form received by agency:	1999-03-16 00:00:00.0
Facility name:	EPTC ETIWANDA
Site name:	ETIWANDA GENERATING STATION
Facility address:	8996 ETIWANDA AVE. ETIWANDA, CA 91739
EPA ID:	CAD079548574
Mailing address:	2244 WALNUT GROVE AVE ROOM 405 ROSEMEAD, CA 91770
Contact:	KATHRYN VANDERSLICE
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	626-302-9320

EPTC ETIWANDA (Continued) **1000167575**

Contact email: Not reported
EPA Region: 09
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 1998-10-20 00:00:00.0
Site name: EPTC ETIWANDA
Classification: Small Quantity Generator

Date form received by agency: 1996-02-27 00:00:00.0
Site name: SOUTHERN CALIFORNIA EDISON
Classification: Large Quantity Generator

Date form received by agency: 1992-02-28 00:00:00.0
Site name: SO. CALIF. EDISON CO. ETIWANDA GEN. STA.
Classification: Large Quantity Generator

Date form received by agency: 1990-03-28 00:00:00.0
Site name: SOUTHERN CALIFORNIA EDISON ETIWAN
Classification: Large Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D008
. Waste name: LEAD

. Waste code: D018
. Waste name: BENZENE

. Waste code: F001

EPTC ETIWANDA (Continued) **1000167575**

. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:
Regulation violated: F - 262.40-43.D
Area of violation: Generators - General
Date violation determined: 1998-06-18 00:00:00.0
Date achieved compliance: 1998-07-16 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1998-06-18 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.220-230.K

EPTC ETIWANDA (Continued) **1000167575**

Area of violation: TSD - General
Date violation determined: 1998-06-18 00:00:00.0
Date achieved compliance: 1998-07-16 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1998-06-18 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.20-23.B
Area of violation: Generators - General
Date violation determined: 1998-06-18 00:00:00.0
Date achieved compliance: 1998-07-16 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1998-06-18 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 1993-09-23 00:00:00.0
Date achieved compliance: 1995-02-01 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-09-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 1993-09-23 00:00:00.0
Date achieved compliance: 1995-02-01 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-09-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General

EPTC ETIWANDA (Continued) **1000167575**

Date violation determined: 1993-09-23 00:00:00.0
Date achieved compliance: 1995-02-01 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1995-02-01 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 1950000
Paid penalty amount: 1633200

Regulation violated: FR - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 1993-09-23 00:00:00.0
Date achieved compliance: 1995-02-01 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1995-02-01 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 1950000
Paid penalty amount: 1633200

Regulation violated: FR - 264.220-230.K
Area of violation: TSD - General
Date violation determined: 1993-09-23 00:00:00.0
Date achieved compliance: 1995-02-01 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-09-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.220-230.K
Area of violation: TSD - General
Date violation determined: 1993-09-23 00:00:00.0
Date achieved compliance: 1995-02-01 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1995-02-01 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 1950000
Paid penalty amount: 1633200

Evaluation Action Summary:
Evaluation date: 1998-06-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

EPTC ETIWANDA (Continued) **1000167575**

Area of violation: Generators - General
Date achieved compliance: 1998-07-16 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1998-06-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1998-07-16 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1992-05-29 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1995-02-01 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1992-05-29 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1995-02-01 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1992-05-29 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 1995-02-01 00:00:00.0
Evaluation lead agency: State

A6
Target Property
ETIWANDA GENERATING STATION
8996 ETIWANDA BLVD
RANCH CUCAMONGA, CA 91739
RCRA-SQG 1001217613
TSCA CAR000038158
FINDS
ECHO

Site 6 of 21 in cluster A

Actual: 1123 ft.

RCRA-SQG:
Date form received by agency: 2019-08-05 00:00:00.0
Facility name: ETIWANDA GENERATING STATION
Facility address: 8996 ETIWANDA BLVD
RANCH CUCAMONGA, CA 91739
EPA ID: CAR000038158
Mailing address: ETIWANDA
ETIWANDA, CA 91739
Contact: TOM A DI CIOLLI
Contact address: S EDISON DR
OXNARD, CA 93033
Contact country: US
Contact telephone: 805-986-7241
Contact email: THOMAS.DICIOLLA@GENON.COM
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: RELIANT ENERGY ETIWANDA GENERATING STATI

ETIWANDA GENERATING STATION (Continued) **1001217613**

Owner/operator address: 8996 ETIWANDA AVE
ETIWANDA, CA 91739
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 1998-04-07 00:00:00.
Owner/Op end date: Not reported

Owner/operator name: GENON CALIFORNIA SOUTH LP
Owner/operator address: ETIWANDA BLVD
RANCHO CUCAMONGA, CA 91739
Owner/operator country: US
Owner/operator telephone: 805-986-7241
Owner/operator email: THOMAS.DICIOLLI@GENON.COM
Owner/operator fax: 805-986-7245
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 2019-03-08 00:00:00.
Owner/Op end date: Not reported

Owner/operator name: RELIANT ENERGY ETIWANDA GENERATING STATI
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 1998-04-07 00:00:00.
Owner/Op end date: Not reported

Owner/operator name: GENON CALIFORNIA SOUTH LP
Owner/operator address: S EDISON DR
OXNARD, CA 93033
Owner/operator country: US
Owner/operator telephone: 805-986-7241
Owner/operator email: THOMAS.DICIOLLI@GENON.COM
Owner/operator fax: 805-986-7245
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 2019-03-08 00:00:00.
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No

ETIWANDA GENERATING STATION (Continued) **1001217613**

Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 2016-02-29 00:00:00.0
Site name: ETIWANDA GENERATING STATION
Classification: Large Quantity Generator

Date form received by agency: 2013-07-29 00:00:00.0
Site name: ETIWANDA GENERATING STATION
Classification: Large Quantity Generator

Date form received by agency: 2011-03-28 00:00:00.0
Site name: ETIWANDA GENERATING STATION
Classification: Large Quantity Generator

Date form received by agency: 2010-01-20 00:00:00.0
Site name: RRI ENERGY ETIWANDA GENERATING STATION
Classification: Large Quantity Generator

Date form received by agency: 2008-02-08 00:00:00.0
Site name: RELIANT ENERGY ETIWANDA GENERATING STATI
Classification: Large Quantity Generator

Date form received by agency: 2006-02-23 00:00:00.0
Site name: RELIANT ENERGY ETIWANDA GENERATING STATI
Classification: Large Quantity Generator

Date form received by agency: 2006-02-23 00:00:00.0
Site name: RELIANT ENERGY ETIWANDA GENERATING STATI
Classification: Small Quantity Generator

Date form received by agency: 2004-01-21 00:00:00.0
Site name: RELIANT ENERGY ETIWANDA INC
Classification: Large Quantity Generator

Date form received by agency: 2002-02-28 00:00:00.0
Site name: RELIANT ENERGY ETIWANDA L.L.C.
Classification: Large Quantity Generator

Date form received by agency: 2000-10-12 00:00:00.0
Site name: ETIWANDA GENERATING STATION
Classification: Large Quantity Generator

Date form received by agency: 1998-04-02 00:00:00.0
Site name: MOUNTAIN VISTA POWER GENERATION
Classification: Large Quantity Generator

ETIWANDA GENERATING STATION (Continued) **1001217613**

Hazardous Waste Summary:

- Waste code: 122
- Waste name: Alkaline solution without metals (pH > 12.5)

- Waste code: 134
- Waste name: Aqueous solution with <10% total organic residues

- Waste code: 135
- Waste name: Unspecified aqueous solution

- Waste code: 141
- Waste name: Off-specification, aged, or surplus inorganics

- Waste code: 151
- Waste name: Asbestos-containing waste

- Waste code: 181
- Waste name: Other inorganic solid waste

- Waste code: 212
- Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

- Waste code: 213
- Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

- Waste code: 221
- Waste name: Waste oil and mixed oil

- Waste code: 223
- Waste name: Unspecified oil-containing waste

- Waste code: 261
- Waste name: Polychlorinated biphenyls and material containing PCB’s

- Waste code: 331
- Waste name: Off-specification, aged, or surplus organics

- Waste code: 343
- Waste name: Unspecified organic liquid mixture

- Waste code: 352
- Waste name: Other organic solids

- Waste code: 512
- Waste name: Other empty containers 30 gallons or more

- Waste code: 551
- Waste name: Laboratory waste chemicals

- Waste code: 571
- Waste name: Fly ash, bottom ash, and retort ash

- Waste code: 611
- Waste name: Contaminated soil from site clean-ups

- Waste code: 791

ETIWANDA GENERATING STATION (Continued) **1001217613**

. Waste name: Liquids with pH < 2

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

ETIWANDA GENERATING STATION (Continued) **1001217613**

SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:
Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 6200

Waste code: D008
Waste name: LEAD
Amount (Lbs): 830

Violation Status: No violations found

TSCA:
No Details: No Details

FINDS:
Registry ID: 110002414138

Click Here:

Environmental Interest/Information System:
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the

ETIWANDA GENERATING STATION (Continued) **1001217613**

estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.
CAMDBS (Clean Air Markets Division Business System) is a national information system that supports the implementation of market-based air pollution control programs administered by the Clean Air Markets Division, within the Office of Air and Radiation. These programs include the Acid Rain Program, established by Title IV of the Clean Air Act Amendments of 1990, and regional programs designed reduce the transport of ozone. These emissions trading programs allows regulated facilities (primarily electric utilities) to adopt the most cost-effective strategies to reduce emissions at their units. Units that reduce their emissions below the number of allowances they hold -- each allowance is equivalent to one ton of sulfur dioxide or nitrogen oxides -- may trade allowances with other units in their system, sell them to other utilities on the open market or through EPA auctions, or bank them to cover emissions in future years. CAMDBS functions include registering responsible officials, establishing allowance accounts, reporting hourly emissions data, and transferring allowances between accounts.
TSCA SUBMITTER
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
HAZARDOUS AIR POLLUTANT MAJOR
US Emissions & Generation Resource Database (EGRID) contains data on emissions and resource mix for virtually every power plant and company that generates electricity in the United States.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
HAZARDOUS WASTE BIENNIAL REPORTER
ELECTRIC GENERATOR
AIR MAJOR
STATE MASTER
GREENHOUSE GAS REPORTER
NON-TRANSIENT NON-COMMUNITY WATER SYSTEM
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

ETIWANDA GENERATING STATION (Continued) **1001217613**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1001217613
Registry ID:	110002414138
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002414138
Name:	ETIWANDA GENERATING STATION
Address:	8996 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739

A7 **INLAND EMPIRE UTILITIES AGENCY** **HWTS** **S124599310**
Target Property **8996 ETIWANDA AVE** **N/A**
RANCHO CUCAMONGA, CA 91739

Site 7 of 21 in cluster A

Actual: 1123 ft.

HWTS:

Name:	INLAND EMPIRE UTILITIES AGENCY
Address:	8996 ETIWANDA AVE
Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 917399662
EPA ID:	CAC002637325
Inactive Date:	06/04/2009
Create Date:	12/05/2008
Last Act Date:	07/15/2009
Mailing Name:	Not reported
Mailing Address:	6075 KIMBALL AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CHINO, CA 917089174
Owner Name:	INLAND EMPIRE UTILITIES AGENCY
Owner Address:	6075 KIMBALL AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	CHINO, CA 917089174
Contact Name:	CLAUDIA NEIGHBORS
Contact Address:	6075 KIMBALL AVE
Contact Address 2:	Not reported
City,State,Zip:	CHINO, CA 917089174

A8 **CHMIRS** **S105672031**
Target Property **8996 ETIWANDA AV.** **N/A**
RANCHO CUCAMONGA, CA

Site 8 of 21 in cluster A

Actual: 1123 ft.

CHMIRS:

Name:	Not reported
Address:	8996 ETIWANDA AV.
City,State,Zip:	RANCHO CUCAMONGA, CA
OES Incident Number:	1-5228
OES notification:	09/13/2001
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported

(Continued) **S105672031**

Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Chadwick Channel
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Reliant Energy
Incident Date:	9/13/200112:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Utilities/Substation
E Date:	Not reported
Substance:	Treated cooling water
Gallons:	80
Unknown:	0.000000
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported

(Continued) **S105672031**

Comments: Not reported
Description: During a quarterly fire hydrant flush, the substance was released on to the ground and into a flood control channel. At the time of the test, no one was aware the hydrant system was connected to the cooling water system.

A9 **CHMIRS** **S105663752**
Target Property **8996 ETIWANDA AVE.** **N/A**
RANCHO CUCAMONGA, CA 91739

Site 9 of 21 in cluster A

Actual: 1123 ft.

CHMIRS:

Name:	Not reported
Address:	8996 ETIWANDA AVE.
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
OES Incident Number:	1-3155
OES notification:	05/31/2001
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Chadwick Channel
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Reliant Resources

(Continued) **S105663752**

Incident Date:	5/31/200112:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	No
Site Type:	Utilities/Substation
E Date:	Not reported
Substance:	Cooling Tower Water
Gallons:	10
Unknown:	0.000000
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	This is a chemically treated water with hypochloride (chlorine - less than 10 ppm), sulfuric acid (probably less than 10 ppm) and corrosion inhibitors (5-10 ppm). The high level alarm failed on the cooling tower, leading to an overflow.
Name:	Not reported
Address:	8996 ETIWANDA AVE.
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
OES Incident Number:	1-2945
OES notification:	05/21/2001
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported

(Continued) **S105663752**

Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	N/A
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Reliant Resources
Incident Date:	5/21/200112:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Utilities/Substation
E Date:	Not reported
Substance:	Well water with trace amounts of hydrochloride & sulfuric acid
Gallons:	20
Unknown:	0.000000
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The cooling tower overflowed, approximately 2-3 gallons went into the near by dry creek bed which is on site. Water is being allowed to dissipate on it's own.
Name:	Not reported
Address:	8996 ETIWANDA AVE.
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
OES Incident Number:	1-2945
OES notification:	05/21/2001
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported

(Continued) **S105663752**

Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	N/A
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Reliant Resources
Incident Date:	5/21/200112:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Utilities/Substation
E Date:	Not reported
Substance:	Well water with trace amounts of hydrochloride & sulfuric acid
Gallons:	20
Unknown:	0.000000
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported

(Continued) **S105663752**

Comments:	Not reported
Description:	The cooling tower overflowed, approximately 2-3 gallons went into the near by dry creek bed which is on site. Water is being allowed to dissipate on it's own.
Name:	Not reported
Address:	8996 ETIWANDA AVE.
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
OES Incident Number:	0-6149
OES notification:	12/26/2000
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Chadwick Channel
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2000
Agency:	Southern Calif. Edison
Incident Date:	12/26/200012:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Utilities/Substation
E Date:	Not reported
Substance:	Cooling Tower Water

(Continued) **S105663752**

Gallons:	350
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Wind damage to cooling tower caused water release. Not reported

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A10 **SOUTHERN CALIFORNIA EDISON** **HWTS** **S124575205**
Target **8996 ETIWANDA AVE** **N/A**
Property **ETIWANDA, CA 91739**

Site 10 of 21 in cluster A

Actual: **1123 ft.**

HWTS:

Name:	SOUTHERN CALIFORNIA EDISON
Address:	8996 ETIWANDA AVE
Address 2:	Not reported
City,State,Zip:	ETIWANDA, CA 91739
EPA ID:	CAC002564519
Inactive Date:	10/21/2003
Create Date:	04/23/2003
Last Act Date:	04/23/2003
Mailing Name:	Not reported
Mailing Address:	2244 WALNUT GROVE AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	ROSEMEAD, CA 91770
Owner Name:	SOUTHERN CALIFORNIA EDISON
Owner Address:	2244 WALNUT GROVE AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	ROSEMEAD, CA 91770
Contact Name:	MIGUEL FLORES/SAFETY ENVIRON SPECIA
Contact Address:	2244 WALNUT GROVE AVE
Contact Address 2:	Not reported
City,State,Zip:	ROSEMEAD, CA 91770

A11 **ETIWANDA LAUNCHER FACILITY** **HIST UST** **U001569544**
Target **8996 ETIWANDA AVE** **N/A**
Property **ETIWANDA, CA 91739**

Site 11 of 21 in cluster A

Actual: **1123 ft.**

HIST UST:

Name:	ETIWANDA LAUNCHER FACILITY
Address:	8996 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
File Number:	0002A6CB
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A6CB.pdf
Region:	STATE
Facility ID:	00000066323
Facility Type:	Other
Other Type:	ELECTRIC UTILITY
Contact Name:	MARIO A. FAVARO
Telephone:	8183021478
Owner Name:	SOUTHERN CALIFORNIA EDISON COM
Owner Address:	2244 WALNUT GROVE AVENUE
Owner City,St,Zip:	ROSEMEAD, CA 91770
Total Tanks:	0001
Tank Num:	001
Container Num:	382
Year Installed:	1984
Tank Capacity:	00000200
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	2
Leak Detection:	None

Click here for Geo Tracker PDF:

A12 **NRG CALIFORNIA SOUTH LP, ETIWANDA GEN** **ICIS** **1016932743**
Target **8996 ETIWANDA AVE** **US AIRS** **N/A**
Property **ETIWANDA, CA 91739**

Site 12 of 21 in cluster A

Actual: **1123 ft.**

ICIS:

Enforcement Action ID:	CASCAA000006071CA14900052
FRS ID:	110002414138
Action Name:	NRG CALIFORNIA SOUTH LP, ETIWANDA GEN 06071CA14900052
Facility Name:	NRG CALIFORNIA SOUTH LP, ETIWANDA GEN
Facility Address:	8996 ETIWANDA AVE ETIWANDA, CA 91739
Enforcement Action Type:	Administrative Order
Facility County:	SAN BERNARDINO
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	4911
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.091516
Longitude in Decimal Degrees:	-117.523892
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006071CA149
Facility NAICS Code:	221112
Tribal Land Code:	Not reported

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Enforcement Action ID: CASCAA000006071CA14900051
FRS ID: 110002414138
Action Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN 06071CA14900051
Facility Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN
Facility Address: 8996 ETIWANDA AVE
ETIWANDA, CA 91739
Enforcement Action Type: Notice of Violation
Facility County: SAN BERNARDINO
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 4911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.091516
Longitude in Decimal Degrees: -117.523892
Permit Type Desc: Not reported
Program System Acronym: CASCA00006071CA149
Facility NAICS Code: 221112
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006071CA14900043
FRS ID: 110002414138
Action Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN 06071CA14900043
Facility Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN
Facility Address: 8996 ETIWANDA AVE
ETIWANDA, CA 91739
Enforcement Action Type: Administrative Order
Facility County: SAN BERNARDINO
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 4911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.091516
Longitude in Decimal Degrees: -117.523892
Permit Type Desc: Not reported
Program System Acronym: CASCA00006071CA149
Facility NAICS Code: 221112
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006071CA14900042
FRS ID: 110002414138
Action Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN 06071CA14900042
Facility Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN
Facility Address: 8996 ETIWANDA AVE
ETIWANDA, CA 91739
Enforcement Action Type: Notice of Violation
Facility County: SAN BERNARDINO
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 4911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.091516
Longitude in Decimal Degrees: -117.523892
Permit Type Desc: Not reported
Program System Acronym: CASCA00006071CA149

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Facility NAICS Code: 221112
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006071CA14900015
FRS ID: 110002414138
Action Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN 06071CA14900015
Facility Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN
Facility Address: 8996 ETIWANDA AVE
ETIWANDA, CA 91739
Enforcement Action Type: Administrative Order
Facility County: SAN BERNARDINO
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 4911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.091516
Longitude in Decimal Degrees: -117.523892
Permit Type Desc: Not reported
Program System Acronym: CASCA00006071CA149
Facility NAICS Code: 221112
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006071CA14900014
FRS ID: 110002414138
Action Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN 06071CA14900014
Facility Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN
Facility Address: 8996 ETIWANDA AVE
ETIWANDA, CA 91739
Enforcement Action Type: Notice of Violation
Facility County: SAN BERNARDINO
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 4911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.091516
Longitude in Decimal Degrees: -117.523892
Permit Type Desc: Not reported
Program System Acronym: CASCA00006071CA149
Facility NAICS Code: 221112
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006071CA14900007
FRS ID: 110002414138
Action Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN 06071CA14900007
Facility Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN
Facility Address: 8996 ETIWANDA AVE
ETIWANDA, CA 91739
Enforcement Action Type: Administrative Order
Facility County: SAN BERNARDINO
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 4911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.091516

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Longitude in Decimal Degrees: -117.523892
Permit Type Desc: Not reported
Program System Acronym: CASCA00006071CA149
Facility NAICS Code: 221112
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006071CA14900006
FRS ID: 110002414138
Action Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN 06071CA14900006
Facility Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN
Facility Address: 8996 ETIWANDA AVE
ETIWANDA, CA 91739
Enforcement Action Type: Notice of Violation
Facility County: SAN BERNARDINO
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 4911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.091516
Longitude in Decimal Degrees: -117.523892
Permit Type Desc: Not reported
Program System Acronym: CASCA00006071CA149
Facility NAICS Code: 221112
Tribal Land Code: Not reported

US AIRS (AFS):
Envid: 1016932743
Region Code: 09
County Code: CA071
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
D and B Number: Not reported
Facility Site Name: NRG CALIFORNIA SOUTH LP, ETIWANDA GEN
Primary SIC Code: 4911
NAICS Code: 221112
Default Air Classification Code: MAJ
Facility Type of Ownership Code: POF
Air CMS Category Code: TVM
HPV Status: Not reported

US AIRS (AFS):
Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2008-12-05 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2010-03-25 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-04-28 00:00:00
Activity Status Date: 2015-07-07 13:11:06
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-04-28 00:00:00
Activity Status Date: 2015-07-07 13:13:44
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2016-05-04 00:00:00
Activity Status Date: 2016-08-23 19:23:04
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2016-06-15 00:00:00
Activity Status Date: 2016-08-23 19:24:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-09-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-02-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-03-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-02-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-08-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-08-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-09-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Activity Date: 2008-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-11-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-11-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-07-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-08-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-09-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-03-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-04-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-04-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-10-17 00:00:00
Activity Status Date: 2008-10-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Activity Date: 2010-01-28 00:00:00
Activity Status Date: 2010-01-28 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-07-10 00:00:00
Activity Status Date: 2008-07-10 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-11-24 00:00:00
Activity Status Date: 2009-11-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 1998-03-26 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2003-06-02 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2008-12-05 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2010-03-25 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-02-24 00:00:00
Activity Status Date: 2015-07-07 13:12:36
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-04-28 00:00:00
Activity Status Date: 2015-07-07 13:11:06
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-04-28 00:00:00
Activity Status Date: 2015-07-07 13:13:44
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-05-04 00:00:00
Activity Status Date: 2016-08-23 19:23:04
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-06-15 00:00:00
Activity Status Date: 2016-08-23 19:24:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-01-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-04-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-07-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-10-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1999-07-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Activity Date: 2000-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-09-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-02-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-03-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-02-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-08-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-08-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-09-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-11-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-11-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Activity Date: 2009-09-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-07-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-08-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-09-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-03-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-04-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-04-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-02-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-01-15 00:00:00
Activity Status Date: 1998-01-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-04-08 00:00:00
Activity Status Date: 2003-04-08 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-10-17 00:00:00
Activity Status Date: 2008-10-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-01-28 00:00:00
Activity Status Date: 2010-01-28 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

NRG CALIFORNIA SOUTH LP, ETIWANDA GEN (Continued) **1016932743**

Activity Date: 1998-06-22 00:00:00
Activity Status Date: 1998-06-22 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-01-16 00:00:00
Activity Status Date: 2003-01-16 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-07-10 00:00:00
Activity Status Date: 2008-07-10 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA149
Facility Registry ID: 110002414138
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-11-24 00:00:00
Activity Status Date: 2009-11-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

A13 **CHMIRS** **S118189914**
Target Property **8996 ETIWANDA AVE, UNIT 4** **N/A**
RANCHO CUCAMONGA, CA 91739

Site 13 of 21 in cluster A

Actual: 1123 ft.

CHMIRS:
Name: Not reported
Address: 8996 ETIWANDA AVE, UNIT 4
City,State,Zip: RANCHO CUCAMONGA, CA 91739
OES Incident Number: 15-4528
OES notification: 08/05/2015
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**

(Continued) **S118189914**

Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Utilities/Substation
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	SEWAGE
Measure:	Gal(s)
Other:	Not reported
Date/Time:	900
Year:	2015
Agency:	Etiwanda Generating Station
Incident Date:	08/05/2015
Admin Agency:	San Bernardino County Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Water - Reclaimed Type
Quantity Released:	100
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No

(Continued) **S118189914**

#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	Cooling water line block valve failed to open causing the cooling tower to overflow, material flowed onto soil, RP handled containment and clean up.

A14 **SOUTHERN CALIFORNIA EDISON/ETIWANDA SUBSTATION** **HAZNET** **S112954891**
Target **8996 ETIWANDA AVE** **HWTS** **N/A**
Property **RANCHO CUCAMONGA, CA 91739**

Site 14 of 21 in cluster A

Actual: **1123 ft.**

HAZNET:

Name:	SOUTHERN CALIFORNIA EDISON/ETIWANDA SUBSTATION
Address:	8996 ETIWANDA AVE
Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Contact:	STAN MARSH
Telephone:	9513135428
Mailing Name:	Not reported
Mailing Address:	PO BOX 800 QUAD 3A
Year:	2006
Gepaid:	CAC002605906
TSD EPA ID:	HFHQ36-0200
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	-
Tons:	2.25

Additional Info:

Year:	2006
Gen EPA ID:	CAC002605906
Shipment Date:	20060718
Creation Date:	9/14/2006 18:31:42
Receipt Date:	Not reported
Manifest ID:	24909143
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	CLEAN HARBORS LOS ANGELES LLC
TSDF Alt EPA ID:	HFHQ36-0200
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	2.25
Waste Quantity:	4500
Quantity Unit:	P

SOUTHERN CALIFORNIA EDISON/ETIWANDA SUBSTATION (Continued) **S112954891**

Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

HWTS:
Name: SOUTHERN CALIFORNIA EDISON/ETIWANDA SUBSTATION
Address: 8996 ETIWANDA AVE
Address 2: Not reported
City,State,Zip: RANCHO CUCAMONGA, CA 91739
EPA ID: CAC002605906
Inactive Date: 01/08/2007
Create Date: 07/11/2006
Last Act Date: 07/11/2006
Mailing Name: Not reported
Mailing Address: PO BOX 800 QUAD 3A
Mailing Address 2: Not reported
Mailing City,State,Zip: ROSEMEAD, CA 91770
Owner Name: SO CALIF EDISON
Owner Address: PO BOX 800 QUAD 3A
Owner Address 2: Not reported
Owner City,State,Zip: ROSEMEAD, CA 91770
Contact Name: STAN MARSH
Contact Address: PO BOX 800 QUAD 3A
Contact Address 2: Not reported
City,State,Zip: ROSEMEAD, CA 91770

A15 **SOUTHERN CALIFORNIA EDISON - GRAPELAND PEAKER FACI** **HWTS** **S124864781**
Target Property **8996 ETIWANDA AVE** **N/A**
RANCHO CUCAMONGA, CA 91739

Site 15 of 21 in cluster A

Actual: 1123 ft.

HWTS:
Name: SOUTHERN CALIFORNIA EDISON - GRAPELAND PEAKER FACILITY
Address: 8996 ETIWANDA AVE
Address 2: Not reported
City,State,Zip: RANCHO CUCAMONGA, CA 917399662
EPA ID: CAL000316843
Inactive Date: 03/23/2007
Create Date: 02/23/2007
Last Act Date: 03/23/2007
Mailing Name: Not reported
Mailing Address: PO BOX 800
Mailing Address 2: QUAD 3A
Mailing City,State,Zip: ROSEMEAD, CA 917700800
Owner Name: SOUTHERN CALIFORNIA EDISON CO
Owner Address: 2244 WALNUT GROVE AVE
Owner Address 2: QUAD 3A
Owner City,State,Zip: ROSEMEAD, CA 917703714
Contact Name: STAN MARSH
Contact Address: 2244 WALNUT GROVE AVE
Contact Address 2: QUAD 3A
City,State,Zip: ROSEMEAD, CA 917703714

NAICS:
EPA ID: CAL000316843

SOUTHERN CALIFORNIA EDISON - GRAPELAND PEAKER FACILITY (Continued) **S124864781**

Create Date:	2007-02-23 14:57:20
NAICS Code:	221122
NAICS Description:	Electric Power Distribution
Issued EPA ID Date:	2007-02-23 14:57:20
Inactive Date:	2007-03-23 00:00:00
Facility Name:	SOUTHERN CALIFORNIA EDISON - GRAPELAND PEAKER FACILITY
Facility Address:	8996 ETIWANDA AVE
Facility Address 2:	Not reported
Facility City:	RANCHO CUCAMONGA
Facility County:	36
Facility State:	CA
Facility Zip:	917399662

A16 **NORTH STAR RECYCLING** **CIWQS** **S121659450**
Target **8996 ETIWANDA AVE** **N/A**
Property **RANCHO CUCAMONGA, CA 91739**

Site 16 of 21 in cluster A

Actual: **1123 ft.**

CIWQS:

Name:	NORTH STAR RECYCLING
Address:	8996 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Agency:	North Star Recycling
Agency Address:	PO Box 9300, Minneapolis, MN 55440
Place/Project Type:	Industrial - Scrap and Waste Materials
SIC/NAICS:	5093
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I012433
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	07/11/1996
Termination Date:	12/10/1997
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.09076
Longitude:	-117.52379

A17 **CHMIRS** **S104766087**
Target **8996 ETIWANDA AVE** **N/A**
Property **RANCHO CUCAMONGA, CA 91739**

Site 17 of 21 in cluster A

Actual: **1123 ft.**

CHMIRS:

Name:	Not reported
Address:	8996 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
OES Incident Number:	2-3830
OES notification:	07/15/2002
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Chadwick Channel
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	Reliant Energy
Incident Date:	7/15/200212:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Utilities/Substation
E Date:	Not reported
Substance:	Water with trace amounts of Chemicals
Gallons:	5,000

(Continued) **S104766087**

Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Substance was released from a valve that was stuck open in a cooling tower. Substance is setting in Chadwick Channel. Chadwick channel was dry at the time of the release. Chadwick Channel is not a drinking source. Contractor is on scene with vacuum ttruck.
Name:	Not reported
Address:	8996 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA
OES Incident Number:	1-4093
OES notification:	07/16/2001
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Chadwick Channel/

(Continued) **S104766087**

Spill Site:	Not reported
Cleanup By:	N/A
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Reliant Energy
Incident Date:	7/16/200112:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Cooling tower water
Gallons:	150
Unknown:	0.000000
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The tower overflowed due to a valve malfunction. The release entered the Chadwick Channel where it runs thru the R/P property. The Channel was dry at the time and the release soaked into the bottom.

Name:	Not reported
Address:	8996 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91723
OES Incident Number:	1-0348
OES notification:	01/17/2001
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported

(Continued) **S104766087**

Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Storm Water Channel
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Reliant Energy
Incident Date:	1/17/200112:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Utilities/Substation
E Date:	Not reported
Substance:	Non-hazardous cooling tower water
Unknown:	Unk
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	An operator made rounds at midnight & everything was fine. Around 4am, the release was discovered, aprox 3-5 gpm from the cooling towers and entering Chadwick Channel, a storm water conveyance that runs thru the property. It was soaking into the saand and mud at bottom of channel & not going off the property. It lasted

(Continued) **S104766087**

for no more then 4 hrs and was stopped immediately upon discovery.

Name:	Not reported
Address:	8996 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
OES Incident Number:	0-2616
OES notification:	06/14/2000
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2000
Agency:	Southern California Edison
Incident Date:	6/13/200012:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Utilities/Substation
E Date:	Not reported
Substance:	Cooloing Tower water
Gallons:	10,000
Unknown:	0
Substance #2:	Not reported

(Continued) **S104766087**

Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Tower broke releasing the water
Name:	Not reported
Address:	8996 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA
OES Incident Number:	12-2022
OES notification:	04/05/2012
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Chadwick Channel
Spill Site:	Waterways
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported

(Continued) **S104766087**

Date/Time:	1300
Year:	2012
Agency:	Genon Energy
Incident Date:	4/5/2012
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Unknown
Site Type:	Chadwick Channel
E Date:	Not reported
Substance:	Unknown
Quantity Released:	Unknown
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The caller is reporting an unknown substance flowed onto their property from Chadwick Channel. The channel is now dry and there is a white crystal layer on the ground. The substance flowed from the north of their property.
Name:	Not reported
Address:	8996 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
OES Incident Number:	2-0789
OES notification:	02/11/2002
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported

(Continued) **S104766087**

Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Storm Drain/ Sand Sevaine Flood Control Channel
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	Reliant Energy
Incident Date:	2/9/200212:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Utilities/Substation
E Date:	Not reported
Substance:	Cooling Tower Water
Gallons:	1,000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Historical: Substance was released due to wind damage to unit.Note: Substance was thought to of originally stayed on installation, upon further inspection it was found to of went into a storm drain which flows into the Sand Sevaine Flood Control Chaannel
Name:	Not reported
Address:	8996 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA
OES Incident Number:	1-4870
OES notification:	08/27/2001
OES Date:	Not reported

(Continued) **S104766087**

OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Reliant Energy
Incident Date:	8/27/200112:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	waste water
Gallons:	100
Unknown:	0.000000
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported

(Continued) **S104766087**

#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Plugged holes on a cooling tower caused the tower to overflow. 80-85 Gals. flowed into the Chadwick Channel. It is not a drinking water resevoir. The Channel was dry until the spill

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A18 **GENERATING STATION,ETIWANDA** **WMUDS/SWAT** **S103442798**
Target **8996 ETIWANDA AVENUE** **CHMIRS** **N/A**
Property **RANCHO CUCAMONGA CA, CA 91739**

Site 18 of 21 in cluster A

Actual: **1123 ft.**

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells.
Primary Waste:	PROCES
Primary Waste Type:	Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards.
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Private
Agency Name:	MOUNTAIN VISTA POWER GEN., LLC
Agency Department:	Not reported
Agency Address:	1111 LOUISIANA, 16TH FLOOR
Agency City,St,Zip:	HOUSTON TX 77002
Agency Contact:	F. J. MEYER
Agency Telephone:	7132076000
Land Owner Name:	Not reported
Land Owner Address:	Not reported
Land Owner City,St,Zip:	Not reported
Land Owner Contact:	Not reported
Land Owner Phone:	Not reported
Region:	8
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Description:	Not reported

GENERATING STATION,ETIWANDA (Continued) **S103442798**

Facility Telephone:	Not reported
SWAT Facility Name:	Not reported
Primary SIC:	4911
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	True
Solid Waste Assessment Test Program:	False
Toxic Pits Cleanup Act Program:	True
Resource Conservation Recovery Act:	True
Department of Defence:	False
Solid Waste Assessment Test Program:	Not reported
Threat to Water Quality:	Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.
Sub Chapter 15:	True
Regional Board Project Officer:	RA
Number of WMUDS at Facility:	1
Section Range:	Not reported
RCRA Facility:	No
Waste Discharge Requirements:	A
Self-Monitoring Rept. Frequency:	Quarterly Submittal
Waste Discharge System ID:	8 362300001
Solid Waste Information ID:	Not reported

CHMIRS:

Name:	Not reported
Address:	8996 ETIWANDA AVENUE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
OES Incident Number:	9-2781
OES notification:	07/01/1999
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported

GENERATING STATION,ETIWANDA (Continued) **S103442798**

Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Chadwick Channel
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1999
Agency:	Etiwanda Generating Station
Incident Date:	6/30/199912:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Utilities/Substation
E Date:	Not reported
Substance:	Cooling Tower Water
Gallons:	500
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Equipment malfuntion caused release. 500 gallons went into Chadwick Channel (dry Channel) which eventually ends up at the Santa Ana River. Recovered all substance utilizing vacuum trucks. Nothing left the property

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A19 **ETIWANDA SUBSTATION EXPANSION PROJECT** **NPDES S117699806**
Target **8996 ETIWANDA AVE** **CIWQS N/A**
Property **RANCHO CUCAMONGA, CA 91739**

Site 19 of 21 in cluster A

Actual: **1123 ft.**

NPDES:

Name:	ETIWANDA SUBSTATION EXPANSION PROJECT
Address:	8996 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported

ETIWANDA SUBSTATION EXPANSION PROJECT (Continued) **S117699806**

Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36C338070
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	07/14/2006
Operator Name:	Southern California Edison
Operator Address:	14005 S Benson Ave
Operator City:	Chino
Operator State:	California
Operator Zip:	91710

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	285017
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 36C338070
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	11/28/2005
Status:	Terminated
Status Date:	07/14/2006
Place Size:	2.4
Place Size Unit:	Acres
Contact:	Tom Salas
Contact Title:	Not reported
Contact Phone:	714-625-2100
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Southern California Edison
Operator Address:	14005 S Benson Ave
Operator City:	Chino

ETIWANDA SUBSTATION EXPANSION PROJECT (Continued) **S117699806**

Operator State:	California
Operator Zip:	91710
Operator Contact:	John Slayton
Operator Contact Title:	Not reported
Operator Contact Phone:	909-548-7186
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Private Business
Developer:	Southern California Edison
Developer Address:	14005 Benson Ave
Developer City:	Chino
Developer State:	California
Developer Zip:	91710
Developer Contact:	John Slayton
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	714-625-2100
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Y
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	James A Kelly
Certifier Title:	Vice President Engineering & Technical Services
Certification Date:	18-NOV-05
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	ETIWANDA SUBSTATION EXPANSION PROJECT
Address:	8996 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Agency:	Southern California Edison
Agency Address:	14005 S Benson Ave, Chino, CA 91710
Place/Project Type:	Construction - Utility
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ

ETIWANDA SUBSTATION EXPANSION PROJECT (Continued) **S117699806**

WDID:	8 36C338070
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	11/28/2005
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

A20 **ETIWANDA GENERATING STATION** **HAZNET** **S113174152**
Target **8996 ETIWANDA BLVD** **HWTS** **N/A**
Property **RANCHO CUCAMONGA, CA 91739**

Site 20 of 21 in cluster A

Actual:
1123 ft.

HAZNET:

Name:	ETIWANDA GENERATING STATION
Address:	8996 ETIWANDA BLVD
Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 930338706
Contact:	TOM DI CIOLLI
Telephone:	8059867291
Mailing Name:	Not reported
Mailing Address:	6635 S. EDISON DRIVE
Year:	2019
Gepaid:	CAR000038158
TSD EPA ID:	CAD028409019
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.00000
Year:	2019
Gepaid:	CAR000038158
TSD EPA ID:	CAD028409019
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.30000
Year:	2019
Gepaid:	CAR000038158
TSD EPA ID:	CAD028409019
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.16500
Year:	2019
Gepaid:	CAR000038158
TSD EPA ID:	CAT080013352

ETIWANDA GENERATING STATION (Continued) **S113174152**

CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 7.08900

Year: 2018
Gepaid: CAR000038158
TSD EPA ID: CAD009007626
CA Waste Code: 151 - Asbestos containing waste
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 6.90000

Year: 2018
Gepaid: CAR000038158
TSD EPA ID: CAT080013352
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 45.54000

Year: 2018
Gepaid: CAR000038158
TSD EPA ID: CAD050806850
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00000

Year: 2018
Gepaid: CAR000038158
TSD EPA ID: CAD028409019
CA Waste Code: 551 - Laboratory waste chemicals
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.17931

Year: 2018
Gepaid: CAR000038158
TSD EPA ID: CAD028409019
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.61050

Year: 2018
Gepaid: CAR000038158
TSD EPA ID: CAD028409019
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.07500

Click this hyperlink while viewing on your computer to access
297 additional CA HAZNET: record(s) in the EDR Site Report.

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Info:

Year:	2003
Gen EPA ID:	CAR000038158
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	22044843
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	22539176
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.9
Waste Quantity:	1800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	22539176
Trans EPA ID:	NJD080631369

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.7
Waste Quantity:	1400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	22044843
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	1.025
Waste Quantity:	2050
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	22044843
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Meth Code:	R01 - Recycler
Quantity Tons:	1.95
Waste Quantity:	3900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	22044843
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	22044843
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	U133
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.04
Waste Quantity:	80
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	22539176
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F001
Meth Code:	R01 - Recycler
Quantity Tons:	0.66
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	22044843
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20031222
Creation Date:	8/12/2004 8:09:46
Receipt Date:	20031223
Manifest ID:	22539826
Trans EPA ID:	CAR000053405
Trans Name:	ISLAND ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.32
Waste Quantity:	640
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAR000038158
Shipment Date:	20061201
Creation Date:	3/30/2007 13:33:02
Receipt Date:	20061201
Manifest ID:	000985289JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	8.4
Waste Quantity:	2000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061130
Creation Date:	3/30/2007 13:33:55
Receipt Date:	20061206
Manifest ID:	000047359VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more

ETIWANDA GENERATING STATION (Continued) **S113174152**

RCRA Code:	U133
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061130
Creation Date:	3/30/2007 13:33:55
Receipt Date:	20061206
Manifest ID:	000047359VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061130
Creation Date:	3/30/2007 13:33:55
Receipt Date:	20061206
Manifest ID:	000047359VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061130
Creation Date:	3/30/2007 13:33:55
Receipt Date:	20061206
Manifest ID:	000047359VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061005
Creation Date:	3/30/2007 13:31:46
Receipt Date:	20061005
Manifest ID:	000985280JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	32
Waste Quantity:	80
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060919
Creation Date:	3/30/2007 13:31:35
Receipt Date:	20060920

ETIWANDA GENERATING STATION (Continued) **S113174152**

Manifest ID:	000976172JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	19
Waste Quantity:	5000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060907
Creation Date:	3/30/2007 13:31:46
Receipt Date:	20060907
Manifest ID:	000480575JJK
Trans EPA ID:	CAT080032253
Trans Name:	OC VACUUM INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060822
Creation Date:	9/27/2006 18:35:31
Receipt Date:	20060822
Manifest ID:	24988146
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUT
TSDF Alt EPA ID:	CAD008302903

ETIWANDA GENERATING STATION (Continued) **S113174152**

TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060822
Creation Date:	9/27/2006 18:35:31
Receipt Date:	20060822
Manifest ID:	24988146
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUT
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAR000038158
Shipment Date:	20071211
Creation Date:	3/12/2008 18:30:10
Receipt Date:	20071219
Manifest ID:	000218426VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D009
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

ETIWANDA GENERATING STATION (Continued) **S113174152**

Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071211
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000218426VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071211
Creation Date:	3/12/2008 18:30:10
Receipt Date:	20071219
Manifest ID:	000218426VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 5:	Not reported
Shipment Date:	20071211
Creation Date:	3/12/2008 18:30:10
Receipt Date:	20071219
Manifest ID:	000218426VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071211
Creation Date:	3/12/2008 18:30:10
Receipt Date:	20071219
Manifest ID:	000218426VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070918
Creation Date:	3/18/2008 18:30:12
Receipt Date:	20071008
Manifest ID:	000101861VES
Trans EPA ID:	NJD080631369

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZ0000337360
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070918
Creation Date:	12/28/2007 18:31:07
Receipt Date:	20070921
Manifest ID:	000101860VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070905
Creation Date:	1/9/2008 18:30:28
Receipt Date:	20070905
Manifest ID:	000218513VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste

ETIWANDA GENERATING STATION (Continued) **S113174152**

RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1875
Waste Quantity:	375
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070905
Creation Date:	1/9/2008 18:30:28
Receipt Date:	20070905
Manifest ID:	000218513VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070905
Creation Date:	1/9/2008 18:30:28
Receipt Date:	20070905
Manifest ID:	000218513VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2000
Gen EPA ID:	CAR000038158
Shipment Date:	20001114
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001114
Manifest ID:	20220791
Trans EPA ID:	CAR000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080022148
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D009
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001114
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001114
Manifest ID:	20220791
Trans EPA ID:	CAR000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080022148
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D009
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001114

ETIWANDA GENERATING STATION (Continued) **S113174152**

Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001114
Manifest ID:	20220791
Trans EPA ID:	CAR000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080022148
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D009
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20001013
Creation Date:	12/8/2000 0:00:00
Receipt Date:	20001013
Manifest ID:	20220748
Trans EPA ID:	CAR000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	12.92
Waste Quantity:	3400
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20001011
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20001011
Manifest ID:	20220742
Trans EPA ID:	CAR000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	4.56
Waste Quantity:	1200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001011
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20001011
Manifest ID:	20220741
Trans EPA ID:	CAR000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	17.1
Waste Quantity:	4500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001010
Creation Date:	1/24/2001 0:00:00
Receipt Date:	20001011
Manifest ID:	20260861
Trans EPA ID:	CAT080033079
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD050806850
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	U133
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001010
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001011
Manifest ID:	20260860
Trans EPA ID:	CAT080033079
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001010
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001011
Manifest ID:	20260860
Trans EPA ID:	CAT080033079
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000925
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20000926
Manifest ID:	20260853

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans EPA ID:	CAT080033079
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.225
Waste Quantity:	450
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1999
Gen EPA ID:	CAR000038158
Shipment Date:	19991213
Creation Date:	2/15/2000 0:00:00
Receipt Date:	19991215
Manifest ID:	98603400
Trans EPA ID:	CAT080033079
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991213
Creation Date:	3/7/2000 0:00:00
Receipt Date:	19991214
Manifest ID:	98603399
Trans EPA ID:	CAT080033079
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAD050806850
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991213
Creation Date:	3/7/2000 0:00:00
Receipt Date:	19991214
Manifest ID:	98603399
Trans EPA ID:	CAT080033079
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD050806850
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991105
Creation Date:	1/4/2000 0:00:00
Receipt Date:	19991105
Manifest ID:	99174645
Trans EPA ID:	CAR000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	19.182
Waste Quantity:	4600
Quantity Unit:	G

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991022
Creation Date:	12/16/1999 0:00:00
Receipt Date:	19991022
Manifest ID:	99174612
Trans EPA ID:	CAR000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	9.5
Waste Quantity:	2500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990924
Creation Date:	11/19/1999 0:00:00
Receipt Date:	19990928
Manifest ID:	98603384
Trans EPA ID:	CAT080033079
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990924
Creation Date:	12/16/1999 0:00:00
Receipt Date:	19990928

ETIWANDA GENERATING STATION (Continued) **S113174152**

Manifest ID:	98603385
Trans EPA ID:	CAT080033079
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19990924
Creation Date:	12/16/1999 0:00:00
Receipt Date:	19990928
Manifest ID:	98603385
Trans EPA ID:	CAT080033079
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	1.4
Waste Quantity:	2800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19990903
Creation Date:	10/26/1999 0:00:00
Receipt Date:	19990903
Manifest ID:	99485792
Trans EPA ID:	CAR000017657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009007626
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009007626
TSDF Alt Name:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	33.712
Waste Quantity:	40
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990803
Creation Date:	9/21/1999 0:00:00
Receipt Date:	19990803
Manifest ID:	99174519
Trans EPA ID:	CAR000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	3.8
Waste Quantity:	1000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAR000038158
Shipment Date:	20151130
Creation Date:	1/21/2016 22:15:39
Receipt Date:	20151130
Manifest ID:	007132800FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009007626
Trans Name:	AZUSA LAND RECLAMATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	6.9

ETIWANDA GENERATING STATION (Continued) **S113174152**

Waste Quantity:	30
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151106
Creation Date:	1/21/2016 22:16:05
Receipt Date:	20151106
Manifest ID:	007132775FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	Not reported
Waste Quantity:	155
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151106
Creation Date:	1/11/2016 22:16:49
Receipt Date:	20151106
Manifest ID:	007132774FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Shipment Date:	20151106
Creation Date:	1/11/2016 22:16:49
Receipt Date:	20151106
Manifest ID:	007132774FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D007
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.35
Waste Quantity:	700
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150811
Creation Date:	11/6/2015 22:15:07
Receipt Date:	20150811
Manifest ID:	007132615FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	10.425
Waste Quantity:	2500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150805
Creation Date:	10/12/2015 22:15:28
Receipt Date:	20150805
Manifest ID:	007132602FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150805
Creation Date:	1/20/2016 22:15:50
Receipt Date:	20150813
Manifest ID:	007132603FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENV SERVICES
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150805
Creation Date:	10/5/2015 22:15:16
Receipt Date:	20150805
Manifest ID:	007132604FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid

ETIWANDA GENERATING STATION (Continued) **S113174152**

	Regeneration, Organics Recovery Ect
Quantity Tons:	0.38
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150805
Creation Date:	10/12/2015 22:15:28
Receipt Date:	20150805
Manifest ID:	007132602FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150518
Creation Date:	8/28/2015 22:15:07
Receipt Date:	20150520
Manifest ID:	007132428FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.874
Waste Quantity:	230
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAR000038158
Shipment Date:	20011218
Creation Date:	2/26/2002 0:00:00
Receipt Date:	20011218
Manifest ID:	20397041
Trans EPA ID:	CAD072953771
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	20.52
Waste Quantity:	5400
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011205
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21677322
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D007
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011205
Creation Date:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Receipt Date:	Not reported
Manifest ID:	21677322
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D007
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20011205
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21677322
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20011205
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21677322
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2.2
Waste Quantity:	4400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011205
Creation Date:	2/20/2002 0:00:00
Receipt Date:	20011205
Manifest ID:	21677322
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011205
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21677322
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	U133
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.04
Waste Quantity:	80
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011205
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21677322
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F001
Meth Code:	R01 - Recycler
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011205
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21677322
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	611 - Contaminated soil from site clean-ups
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	1.35
Waste Quantity:	2700
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011205
Creation Date:	2/20/2002 0:00:00
Receipt Date:	20011205
Manifest ID:	21677322
Trans EPA ID:	NJD080631369

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	F002
Meth Code:	R01 - Recycler
Quantity Tons:	0.35
Waste Quantity:	700
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAR000038158
Shipment Date:	20131218
Creation Date:	1/29/2014 22:15:13
Receipt Date:	20131227
Manifest ID:	000817727VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.8
Waste Quantity:	1600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131218
Creation Date:	1/29/2014 22:15:13
Receipt Date:	20131227
Manifest ID:	000817727VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131004
Creation Date:	11/27/2013 22:15:07
Receipt Date:	20131004
Manifest ID:	011673590JJK
Trans EPA ID:	CAR000148338
Trans Name:	AMERICAN INTEGRATED SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009007626
Trans Name:	AZUSA LAND RECLAMATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	14
Waste Quantity:	35
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130911
Creation Date:	10/30/2013 22:15:21
Receipt Date:	20130911
Manifest ID:	000816770VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3

ETIWANDA GENERATING STATION (Continued) **S113174152**

Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130911
Creation Date:	10/30/2013 22:15:21
Receipt Date:	20130911
Manifest ID:	000816770VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130904
Creation Date:	10/25/2013 22:15:16
Receipt Date:	20130904
Manifest ID:	011128112JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	4.17
Waste Quantity:	1000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Shipment Date:	20130612
Creation Date:	8/29/2013 22:15:18
Receipt Date:	20130617
Manifest ID:	000651696VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	571 - Fly ash, bottom ash, and retort ash
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130612
Creation Date:	8/29/2013 22:15:18
Receipt Date:	20130617
Manifest ID:	000651696VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.8
Waste Quantity:	1600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130612
Creation Date:	8/29/2013 22:15:18
Receipt Date:	20130617
Manifest ID:	000651696VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.3
Waste Quantity:	2600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130612
Creation Date:	8/29/2013 22:15:18
Receipt Date:	20130617
Manifest ID:	000651696VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAR000038158
Shipment Date:	20141113
Creation Date:	1/15/2015 22:14:55
Receipt Date:	20141113
Manifest ID:	007131941FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	8.34
Waste Quantity:	2000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141112
Creation Date:	12/30/2014 22:15:05
Receipt Date:	20141113
Manifest ID:	000886825VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	571 - Fly ash, bottom ash, and retort ash
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141112
Creation Date:	12/30/2014 22:15:05
Receipt Date:	20141113
Manifest ID:	000886825VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141112
Creation Date:	2/7/2015 22:15:11
Receipt Date:	20141125
Manifest ID:	000886824VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080014079
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0175
Waste Quantity:	35
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141105
Creation Date:	12/30/2014 22:15:05
Receipt Date:	20141112
Manifest ID:	000886782VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141105
Creation Date:	12/30/2014 22:15:05

ETIWANDA GENERATING STATION (Continued) **S113174152**

Receipt Date:	20141112
Manifest ID:	000886782VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20141021
Creation Date:	12/18/2014 22:14:48
Receipt Date:	20141021
Manifest ID:	007131870FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009007626
Trans Name:	AZUSA LAND RECLAMATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	2.76
Waste Quantity:	12
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140811
Creation Date:	10/26/2014 22:15:05
Receipt Date:	20140813
Manifest ID:	000886545VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140811
Creation Date:	10/26/2014 22:15:05
Receipt Date:	20140813
Manifest ID:	000886545VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140811
Creation Date:	10/26/2014 22:15:05
Receipt Date:	20140813
Manifest ID:	000886545VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.02

ETIWANDA GENERATING STATION (Continued) **S113174152**

Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2009
Gen EPA ID:	CAR000038158
Shipment Date:	20091218
Creation Date:	3/5/2010 18:31:15
Receipt Date:	20091223
Manifest ID:	000196893VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091218
Creation Date:	3/5/2010 18:31:15
Receipt Date:	20091223
Manifest ID:	000196893VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091218
Creation Date:	3/5/2010 18:31:15
Receipt Date:	20091223
Manifest ID:	000196893VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091218
Creation Date:	3/5/2010 18:31:15
Receipt Date:	20091223
Manifest ID:	000196893VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091218
Creation Date:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Receipt Date:	Not reported
Manifest ID:	000196893VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20091124
Creation Date:	2/3/2010 18:30:22
Receipt Date:	20091124
Manifest ID:	000311127VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20091124
Creation Date:	2/3/2010 18:30:22
Receipt Date:	20091124
Manifest ID:	000311127VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091111
Creation Date:	2/3/2010 18:30:16
Receipt Date:	20091116
Manifest ID:	000311027VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.525
Waste Quantity:	1050
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091111
Creation Date:	2/3/2010 18:30:16
Receipt Date:	20091116
Manifest ID:	000311027VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075

ETIWANDA GENERATING STATION (Continued) **S113174152**

Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091111
Creation Date:	2/3/2010 18:30:16
Receipt Date:	20091116
Manifest ID:	000311027VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAR000038158
Shipment Date:	20151130
Creation Date:	1/21/2016 22:15:39
Receipt Date:	20151130
Manifest ID:	007132800FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009007626
Trans Name:	AZUSA LAND RECLAMATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	6.9
Waste Quantity:	30
Quantity Unit:	Y
Additional Code 1:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151106
Creation Date:	1/11/2016 22:16:49
Receipt Date:	20151106
Manifest ID:	007132774FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151106
Creation Date:	1/21/2016 22:16:05
Receipt Date:	20151106
Manifest ID:	007132775FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	Not reported
Waste Quantity:	155
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151106
Creation Date:	1/11/2016 22:16:49

ETIWANDA GENERATING STATION (Continued) **S113174152**

Receipt Date:	20151106
Manifest ID:	007132774FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D007
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.35
Waste Quantity:	700
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150811
Creation Date:	11/6/2015 22:15:07
Receipt Date:	20150811
Manifest ID:	007132615FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	10.425
Waste Quantity:	2500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150805
Creation Date:	10/12/2015 22:15:28
Receipt Date:	20150805
Manifest ID:	007132602FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150805
Creation Date:	1/20/2016 22:15:50
Receipt Date:	20150813
Manifest ID:	007132603FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENV SERVICES
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150805
Creation Date:	10/5/2015 22:15:16
Receipt Date:	20150805
Manifest ID:	007132604FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.38

ETIWANDA GENERATING STATION (Continued) **S113174152**

Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150805
Creation Date:	10/12/2015 22:15:28
Receipt Date:	20150805
Manifest ID:	007132602FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150518
Creation Date:	8/28/2015 22:15:07
Receipt Date:	20150520
Manifest ID:	007132428FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.874
Waste Quantity:	230
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Info:

Year:	2008
Gen EPA ID:	CAR000038158
Shipment Date:	20081202
Creation Date:	4/9/2009 18:30:08
Receipt Date:	20081203
Manifest ID:	000217348VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZ0000337360
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	261 - Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.00661
Waste Quantity:	6
Quantity Unit:	K
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081202
Creation Date:	4/9/2009 18:30:08
Receipt Date:	20081203
Manifest ID:	000217348VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZ0000337360
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	731 - Liquids with polychlorinated biphenyls > 50 mg/l
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	6.08304
Waste Quantity:	5520
Quantity Unit:	K
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081201
Creation Date:	5/29/2009 18:30:24
Receipt Date:	20081204

ETIWANDA GENERATING STATION (Continued) **S113174152**

Manifest ID:	002335166JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD980886121
Trans Name:	ARIZONA WASTE OIL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	10.425
Waste Quantity:	2500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20081201
Creation Date:	8/31/2012 22:15:09
Receipt Date:	Not reported
Manifest ID:	002335165JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD980886121
Trans Name:	ARIZONA WASTE OIL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	14.595
Waste Quantity:	3500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20081124
Creation Date:	5/29/2009 18:30:24
Receipt Date:	20081125
Manifest ID:	002335163JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD980886121
Trans Name:	ARIZONA WASTE OIL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	29.19
Waste Quantity:	7000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081124
Creation Date:	5/29/2009 18:30:24
Receipt Date:	20081125
Manifest ID:	002335162JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD980886121
Trans Name:	ARIZONA WASTE OIL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	29.19
Waste Quantity:	7000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081121
Creation Date:	1/14/2009 18:30:08
Receipt Date:	20081126
Manifest ID:	000217349VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081121
Creation Date:	1/14/2009 18:30:08
Receipt Date:	20081126
Manifest ID:	000217349VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081121
Creation Date:	5/29/2009 18:30:24
Receipt Date:	20081121
Manifest ID:	002335159JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD980886121
Trans Name:	ARIZONA WASTE OIL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	29.19
Waste Quantity:	7000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081121
Creation Date:	5/29/2009 18:30:24
Receipt Date:	20081121
Manifest ID:	002335160JJK
Trans EPA ID:	CAT000624247

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD980886121
Trans Name:	ARIZONA WASTE OIL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	21.267
Waste Quantity:	5100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAR000038158
Shipment Date:	20121228
Creation Date:	3/13/2013 22:15:38
Receipt Date:	20121228
Manifest ID:	000986079JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/ KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	5.004
Waste Quantity:	1200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121226
Creation Date:	3/1/2013 22:15:08
Receipt Date:	20121226
Manifest ID:	000579294VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121226
Creation Date:	3/1/2013 22:15:08
Receipt Date:	20121226
Manifest ID:	000579294VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121226
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000579294VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

ETIWANDA GENERATING STATION (Continued) **S113174152**

Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121226
Creation Date:	3/1/2013 22:15:08
Receipt Date:	20121226
Manifest ID:	000579294VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121226
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000579294VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Shipment Date:	20121226
Creation Date:	3/1/2013 22:15:08
Receipt Date:	20121226
Manifest ID:	000579294VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20121226
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000579294VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.875
Waste Quantity:	1750
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20121226
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000579294VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	571 - Fly ash, bottom ash, and retort ash
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20121217
Creation Date:	5/21/2013 22:15:06
Receipt Date:	20121221
Manifest ID:	000671818VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZ0000337360
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	4.408
Waste Quantity:	4000
Quantity Unit:	K
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAR000038158

Shipment Date:	20111214
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000505451VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS

ETIWANDA GENERATING STATION (Continued) **S113174152**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111214
Creation Date:	7/19/2012 22:00:21
Receipt Date:	20111220
Manifest ID:	000505451VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111214
Creation Date:	7/19/2012 22:00:21
Receipt Date:	20111220
Manifest ID:	000505451VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025

ETIWANDA GENERATING STATION (Continued) **S113174152**

Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111214
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000505451VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	3.6
Waste Quantity:	7200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111214
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000505451VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Shipment Date:	20111214
Creation Date:	7/19/2012 22:00:21
Receipt Date:	20111220
Manifest ID:	000505451VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111214
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000505451VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111214
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000505451VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111214
Creation Date:	7/19/2012 22:00:21
Receipt Date:	20111220
Manifest ID:	000505451VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D009
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111122
Creation Date:	3/12/2012 20:30:14
Receipt Date:	20111122
Manifest ID:	008769149JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid

ETIWANDA GENERATING STATION (Continued) **S113174152**

	Regeneration, Organics Recovery Ect
Quantity Tons:	11.259
Waste Quantity:	2700
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAR000038158
Shipment Date:	19981215
Creation Date:	2/26/1999 0:00:00
Receipt Date:	19981218
Manifest ID:	98603214
Trans EPA ID:	CAT080033079
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.35
Waste Quantity:	700
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981215
Creation Date:	2/26/1999 0:00:00
Receipt Date:	19981218
Manifest ID:	98603214
Trans EPA ID:	CAT080033079
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	571 - Fly ash, bottom ash, and retort ash
RCRA Code:	D007
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981211
Creation Date:	1/21/1999 0:00:00
Receipt Date:	19981211
Manifest ID:	96691071
Trans EPA ID:	CAR000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	3.8
Waste Quantity:	1000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981209
Creation Date:	1/21/1999 0:00:00
Receipt Date:	19981209
Manifest ID:	96691063
Trans EPA ID:	CAD000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	19
Waste Quantity:	5000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981207
Creation Date:	1/21/1999 0:00:00
Receipt Date:	19981210
Manifest ID:	98203767

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans EPA ID:	CAR000017657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009007626
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	3.3712
Waste Quantity:	4
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981204
Creation Date:	1/21/1999 0:00:00
Receipt Date:	19981204
Manifest ID:	96691058
Trans EPA ID:	CAR000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	11.4
Waste Quantity:	3000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981005
Creation Date:	11/19/1998 0:00:00
Receipt Date:	19981005
Manifest ID:	96690991
Trans EPA ID:	CAR000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil

ETIWANDA GENERATING STATION (Continued) **S113174152**

RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	3.42
Waste Quantity:	900
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980925
Creation Date:	11/5/1998 0:00:00
Receipt Date:	19980925
Manifest ID:	96690979
Trans EPA ID:	CAR000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	11.4
Waste Quantity:	3000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980910
Creation Date:	11/23/1998 0:00:00
Receipt Date:	19980911
Manifest ID:	96706695
Trans EPA ID:	CAT080033079
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 5:	Not reported
Shipment Date:	19980910
Creation Date:	11/2/1998 0:00:00
Receipt Date:	19980910
Manifest ID:	96690966
Trans EPA ID:	CAR000019943
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	15.2
Waste Quantity:	4000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAR000038158
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	20731194
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.08
Waste Quantity:	160
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Manifest ID:	21684104
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	1.4
Waste Quantity:	2800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21684104
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	1.65
Waste Quantity:	3300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21684104
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21684104
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	1.6
Waste Quantity:	3200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21879041
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21879041
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	611 - Contaminated soil from site clean-ups
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	2.7
Waste Quantity:	5400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21879041
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	1.1
Waste Quantity:	2200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21879041
Trans EPA ID:	NJD080631369
Trans Name:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	21879041
Trans EPA ID:	NJD080631369
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAR000038158

Shipment Date:	20101217
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000202799VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101217
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000202799VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.225
Waste Quantity:	450
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101217
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000202799VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	571 - Fly ash, bottom ash, and retort ash
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101217
Creation Date:	2/19/2011 18:30:32
Receipt Date:	20101217
Manifest ID:	000202799VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101217
Creation Date:	2/19/2011 18:30:32
Receipt Date:	20101217
Manifest ID:	000202799VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101217

ETIWANDA GENERATING STATION (Continued) **S113174152**

Creation Date:	2/19/2011 18:30:32
Receipt Date:	20101217
Manifest ID:	000202799VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20101217
Creation Date:	2/19/2011 18:30:32
Receipt Date:	20101217
Manifest ID:	000202799VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	U133
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20101209
Creation Date:	2/8/2011 18:30:30
Receipt Date:	20101209
Manifest ID:	003205988JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	6.255
Waste Quantity:	1500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100929
Creation Date:	12/30/2010 18:30:30
Receipt Date:	20100929
Manifest ID:	000475302VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100929
Creation Date:	12/30/2010 18:30:30
Receipt Date:	20100929
Manifest ID:	000475302VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site

ETIWANDA GENERATING STATION (Continued) **S113174152**

Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAR000038158
Shipment Date:	20051229
Creation Date:	6/22/2006 18:32:03
Receipt Date:	20051230
Manifest ID:	24651276
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.76
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051229
Creation Date:	6/22/2006 18:32:03
Receipt Date:	20051230
Manifest ID:	24651276
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.8
Waste Quantity:	1600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050927
Creation Date:	4/13/2006 18:48:46
Receipt Date:	20050927
Manifest ID:	63001051
Trans EPA ID:	CAD072953771
Trans Name:	UNITED PUMPING SERVICE INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	17.1
Waste Quantity:	4500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050909
Creation Date:	4/13/2006 18:47:49
Receipt Date:	20050909
Manifest ID:	24656015
Trans EPA ID:	NJD080631369
Trans Name:	ONYS ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1625
Waste Quantity:	325
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050909
Creation Date:	4/13/2006 18:47:49
Receipt Date:	20050909
Manifest ID:	24656015
Trans EPA ID:	NJD080631369

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans Name:	ONYS ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050909
Creation Date:	4/13/2006 18:47:49
Receipt Date:	20050909
Manifest ID:	24656015
Trans EPA ID:	NJD080631369
Trans Name:	ONYS ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.71
Waste Quantity:	450
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050909
Creation Date:	4/13/2006 18:47:49
Receipt Date:	20050909
Manifest ID:	24656015
Trans EPA ID:	NJD080631369
Trans Name:	ONYS ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Meth Code:	H01 - Transfer Station
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050608
Creation Date:	9/16/2005 18:31:41
Receipt Date:	20050608
Manifest ID:	24395716
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.04
Waste Quantity:	80
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050608
Creation Date:	9/16/2005 18:31:41
Receipt Date:	20050608
Manifest ID:	24395716
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.589
Waste Quantity:	155
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Shipment Date:	20050608
Creation Date:	9/16/2005 18:31:41
Receipt Date:	20050608
Manifest ID:	24395716
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0033
Waste Quantity:	1
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAR000038158

Shipment Date:	20170718
Creation Date:	6/20/2018 18:31:06
Receipt Date:	20170718
Manifest ID:	010013002FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170718
Creation Date:	6/20/2018 18:31:06
Receipt Date:	20170718
Manifest ID:	010013002FLE

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	571 - Fly ash, bottom ash, and retort ash
RCRA Code:	D007
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170718
Creation Date:	6/13/2018 18:31:10
Receipt Date:	20170718
Manifest ID:	010013003FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.684
Waste Quantity:	180
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170607
Creation Date:	6/13/2018 18:31:03
Receipt Date:	20170607
Manifest ID:	010012927FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	15.846
Waste Quantity:	3800
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170216
Creation Date:	5/17/2017 18:31:30
Receipt Date:	20170216
Manifest ID:	007133978FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	9.5
Waste Quantity:	2500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170201
Creation Date:	5/18/2017 18:32:03
Receipt Date:	20170202
Manifest ID:	007133973FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS OF WILMINGTON, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0675
Waste Quantity:	135

ETIWANDA GENERATING STATION (Continued) **S113174152**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170201
Creation Date:	5/18/2017 18:32:03
Receipt Date:	20170202
Manifest ID:	007133973FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS OF WILMINGTON, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	571 - Fly ash, bottom ash, and retort ash
RCRA Code:	D007
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170201
Creation Date:	5/18/2017 18:32:03
Receipt Date:	20170202
Manifest ID:	007133973FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS OF WILMINGTON, LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Shipment Date:	20170201
Creation Date:	5/17/2017 18:31:39
Receipt Date:	20170202
Manifest ID:	007133974FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H036 - Not reported
Quantity Tons:	2.28
Waste Quantity:	600
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAR000038158

Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	23820982
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	NONE
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	23820982
Trans EPA ID:	NJD080631369

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D009
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	Not reported
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	23820982
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	NONE
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.225
Waste Quantity:	450
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041216
Creation Date:	3/13/2007 18:30:42
Receipt Date:	20041216
Manifest ID:	23820222
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009007626
Trans Name:	AZUSA LAND RECLAMATION
TSDF Alt EPA ID:	CAD009007626
TSDF Alt Name:	Not reported
Waste Code Description:	NONE - Not reported
RCRA Code:	151

ETIWANDA GENERATING STATION (Continued) **S113174152**

Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	33.712
Waste Quantity:	40
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041208
Creation Date:	2/17/2005 18:32:51
Receipt Date:	20041208
Manifest ID:	23820188
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	NONE
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.04
Waste Quantity:	80
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041208
Creation Date:	2/17/2005 18:32:51
Receipt Date:	20041208
Manifest ID:	23820188
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	NONE
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

ETIWANDA GENERATING STATION (Continued) **S113174152**

Shipment Date:	20041208
Creation Date:	2/17/2005 18:32:51
Receipt Date:	20041208
Manifest ID:	23820188
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F001
Meth Code:	R01 - Recycler
Quantity Tons:	0.825
Waste Quantity:	250
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20041208
Creation Date:	2/17/2005 18:32:51
Receipt Date:	20041208
Manifest ID:	23820188
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS L
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	NONE
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20041208
Creation Date:	3/7/2005 7:25:58
Receipt Date:	Not reported
Manifest ID:	23820182
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD000838896

ETIWANDA GENERATING STATION (Continued) **S113174152**

Trans Name:	ONYX ENVIRONMENTAL SERV
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	- Not reported
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20041027
Creation Date:	12/31/2004 18:30:54
Receipt Date:	20041027
Manifest ID:	23523505
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERIVCES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	NA
Meth Code:	R01 - Recycler
Quantity Tons:	19
Waste Quantity:	5000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	ETIWANDA GENERATING STATION
Address:	8996 ETIWANDA BLVD
Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 917399662
EPA ID:	CAR000038158
Inactive Date:	Not reported
Create Date:	05/13/1998
Last Act Date:	08/29/2019
Mailing Name:	TOM DI CIOLLI
Mailing Address:	6635 S. EDISON DRIVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	OXNARD, CA 930338706
Owner Name:	GENON CALIFORNIA SOUTH LP
Owner Address:	ORMOND BEACH GENERATING STATION
Owner Address 2:	6635 S. EDISON DRIVE
Owner City,State,Zip:	OXNARD, CA 930330000
Contact Name:	TOM DI CIOLLI

ETIWANDA GENERATING STATION (Continued) **S113174152**

Contact Address:	6635 S. EDISON DRIVE
Contact Address 2:	Not reported
City,State,Zip:	OXNARD, CA 93033

NAICS:

EPA ID:	CAR000038158
Create Date:	2011-04-05 10:18:12
NAICS Code:	221122
NAICS Description:	Electric Power Distribution
Issued EPA ID Date:	1998-05-13 00:00:00
Inactive Date:	Not reported
Facility Name:	ETIWANDA GENERATING STATION
Facility Address:	8996 ETIWANDA BLVD
Facility Address 2:	Not reported
Facility City:	RANCHO CUCAMONGA
Facility County:	36
Facility State:	CA
Facility Zip:	917399662

A21 **GENON ADMIN BUILDING** **HWTS** **S124608026**
Target **8996 ETIWANDA AVE** **N/A**
Property **RANCHO CUCAMONGA, CA 91739**

Site 21 of 21 in cluster A

Actual:
1123 ft.

HWTS:

Name:	GENON ADMIN BUILDING
Address:	8996 ETIWANDA AVE
Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
EPA ID:	CAC002666082
Inactive Date:	10/27/2011
Create Date:	04/29/2011
Last Act Date:	04/29/2011
Mailing Name:	Not reported
Mailing Address:	8996 ETIWANDA AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Owner Name:	GENON ADMIN BUILDING
Owner Address:	8996 ETIWANDA AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Contact Name:	DICK BAKER
Contact Address:	8996 ETIWANDA AVE
Contact Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 91739

B22
ENE
< 1/8
0.005 mi.
27 ft.

CALIFORNIA HOME BRANDS INC
8930 ETIWANDA AVE
ETIWANDA, CA 91739

Site 1 of 2 in cluster B

RCRA-SQG **1000252224**
FINDS **CAD981399843**
ECHO
HAZNET
HWTS

Relative: Lower

Actual: 1121 ft.

RCRA-SQG:

Date form received by agency:	1996-09-01 00:00:00.0
Facility name:	CALIFORNIA HOME BRANDS INC
Facility address:	8930 ETIWANDA AVE ETIWANDA, CA 91739
EPA ID:	CAD981399843
Mailing address:	PO BOX 477 ETIWANDA, CA 91739
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	CALIFORNIA HOME BRANDS
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

CALIFORNIA HOME BRANDS INC (Continued) **1000252224**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency: 1990-04-10 00:00:00.0
Site name: CALIFORNIA HOME BRANDS INC
Classification: Large Quantity Generator

Date form received by agency: 1986-04-25 00:00:00.0
Site name: CALIFORNIA HOME BRANDS INC
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002694120

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000252224
Registry ID:	110002694120
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002694120
Name:	CALIFORNIA HOME BRANDS INC
Address:	8930 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739

HAZNET:

Name:	CALIFORNIA HOME BRANDS INC
Address:	8930 ETIWANDA AVE
Address 2:	Not reported
City,State,Zip:	ETIWANDA, CA 917390000
Contact:	--
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	1 RIVERFRONT PL

CALIFORNIA HOME BRANDS INC (Continued) **1000252224**

Year:	1995
Gepaid:	CAD981399843
TSD EPA ID:	CAD044429835
CA Waste Code:	133 - Aqueous solution with total organic residues 10 percent or more
Disposal Method:	T03 - Treatment, Incineration
Tons:	0.1584

Year:	1994
Gepaid:	CAD981399843
TSD EPA ID:	CAD000633164
CA Waste Code:	*** - Invalid waste code
Disposal Method:	D80 - Disposal, Land Fill
Tons:	2.7

Year:	1994
Gepaid:	CAD981399843
TSD EPA ID:	CAD981458466
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	R01 - Recycler
Tons:	1.89

Year:	1994
Gepaid:	CAD981399843
TSD EPA ID:	IDD073114654
CA Waste Code:	352 - Other organic solids
Disposal Method:	D80 - Disposal, Land Fill
Tons:	33.6

Year:	1994
Gepaid:	CAD981399843
TSD EPA ID:	CAT080022148
CA Waste Code:	261 - Polychlorinated biphenyls and material containing PCBs
Disposal Method:	-
Tons:	0.4

Year:	1994
Gepaid:	CAD981399843
TSD EPA ID:	CAT080033681
CA Waste Code:	-
Disposal Method:	H01 - Transfer Station
Tons:	0.01

Year:	1994
Gepaid:	CAD981399843
TSD EPA ID:	CAT080033681
CA Waste Code:	611 - Contaminated soil from site clean-up
Disposal Method:	-
Tons:	0.1584

Year:	1994
Gepaid:	CAD981399843
TSD EPA ID:	CAT080033681
CA Waste Code:	611 - Contaminated soil from site clean-up
Disposal Method:	H01 - Transfer Station
Tons:	0.12

CALIFORNIA HOME BRANDS INC (Continued) **1000252224**

Year:	1994
Gepaid:	CAD981399843
TSD EPA ID:	CAD067786749
CA Waste Code:	151 - Asbestos containing waste
Disposal Method:	D80 - Disposal, Land Fill
Tons:	52.2536

Year:	1993
Gepaid:	CAD981399843
TSD EPA ID:	CAD097030993
CA Waste Code:	131 - Aqueous solution (2 < pH < 12.5) containing reactive anions ...
Disposal Method:	T01 - Treatment, Tank
Tons:	0.417

Click this hyperlink while viewing on your computer to access
29 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	1994
Gen EPA ID:	CAD981399843
Shipment Date:	19940922
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19940922
Manifest ID:	88288530
Trans EPA ID:	CAD072953771
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	611 - Contaminated soil from site clean-ups
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.045
Waste Quantity:	90
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19940922
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19940922
Manifest ID:	88288530
Trans EPA ID:	CAD072953771
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681

CALIFORNIA HOME BRANDS INC (Continued) **1000252224**

TSDF Alt Name:	Not reported
Waste Code Description:	611 - Contaminated soil from site clean-ups
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.075
Waste Quantity:	18
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940922
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19940922
Manifest ID:	88288530
Trans EPA ID:	CAD072953771
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940922
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19940922
Manifest ID:	88288530
Trans EPA ID:	CAD072953771
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	611 - Contaminated soil from site clean-ups
RCRA Code:	D008
Meth Code:	- Not reported
Quantity Tons:	0.1584
Waste Quantity:	38
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

CALIFORNIA HOME BRANDS INC (Continued) **1000252224**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940922
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19941004
Manifest ID:	93182765
Trans EPA ID:	CAD980887475
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	IDD073114654
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940706
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940719
Manifest ID:	93182461
Trans EPA ID:	CAD980887475
Trans Name:	Not reported
Trans 2 EPA ID:	NMD986682094
Trans 2 Name:	Not reported
TSDF EPA ID:	IDD073114654
Trans Name:	Not reported
TSDF Alt EPA ID:	IDD073114654
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940706
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940719
Manifest ID:	93182461
Trans EPA ID:	CAD980887475

CALIFORNIA HOME BRANDS INC (Continued) **1000252224**

Trans Name:	Not reported
Trans 2 EPA ID:	NMD986682094
Trans 2 Name:	Not reported
TSDF EPA ID:	IDD073114654
Trans Name:	Not reported
TSDF Alt EPA ID:	IDD073114654
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19940627
Creation Date:	10/10/1995 0:00:00
Receipt Date:	19940629
Manifest ID:	90371425
Trans EPA ID:	CAL921564639
Trans Name:	Not reported
Trans 2 EPA ID:	CAD000048934
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD067786749
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1.6856
Waste Quantity:	2
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19940603
Creation Date:	10/10/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	93182450
Trans EPA ID:	CAD980887475
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080022148
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	261 - Not reported
RCRA Code:	Not reported

CALIFORNIA HOME BRANDS INC (Continued) **1000252224**

Meth Code:	- Not reported
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940528
Creation Date:	10/10/1995 0:00:00
Receipt Date:	19940531
Manifest ID:	90371311
Trans EPA ID:	CAD000048934
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD067786749
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	50.568
Waste Quantity:	60
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1993
Gen EPA ID:	CAD981399843
Shipment Date:	19931208
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931214
Manifest ID:	93157231
Trans EPA ID:	CAD980887475
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080011059
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080011059
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported

CALIFORNIA HOME BRANDS INC (Continued) **1000252224**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931111
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931115
Manifest ID:	92429900
Trans EPA ID:	CAD980887475
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080011059
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080011059
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931111
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931115
Manifest ID:	92429900
Trans EPA ID:	CAD980887475
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080011059
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080011059
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931111
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931115
Manifest ID:	92429900

CALIFORNIA HOME BRANDS INC (Continued) **1000252224**

Trans EPA ID:	CAD980887475
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080011059
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080011059
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	1.6
Waste Quantity:	3200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19931111
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931115
Manifest ID:	92429900
Trans EPA ID:	CAD980887475
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080011059
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080011059
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19931111
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931115
Manifest ID:	92429901
Trans EPA ID:	CAD980887475
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD097030993
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals

CALIFORNIA HOME BRANDS INC (Continued) **1000252224**

RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.2085
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931111
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931115
Manifest ID:	92429901
Trans EPA ID:	CAD980887475
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD097030993
TSDF Alt Name:	Not reported
Waste Code Description:	131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930928
Creation Date:	9/12/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	92429731
Trans EPA ID:	CAD980887475
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080011059
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	F003
Meth Code:	- Not reported
Quantity Tons:	6.255
Waste Quantity:	1500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

CALIFORNIA HOME BRANDS INC (Continued) **1000252224**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930923
Creation Date:	9/12/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	92474539
Trans EPA ID:	CAD980887475
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080011059
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	4.75
Waste Quantity:	1250
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930208
Creation Date:	9/15/1995 0:00:00
Receipt Date:	19930212
Manifest ID:	91494447
Trans EPA ID:	CAD000048934
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD067786749
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	33.712
Waste Quantity:	40
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1995
Gen EPA ID:	CAD981399843
Shipment Date:	19950303

CALIFORNIA HOME BRANDS INC (Continued) **1000252224**

Creation Date:	10/23/1995 0:00:00
Receipt Date:	19950303
Manifest ID:	93442974
Trans EPA ID:	CAD983578303
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	D001
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.1584
Waste Quantity:	38
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	CALIFORNIA HOME BRANDS INC
Address:	8930 ETIWANDA AVE
Address 2:	Not reported
City,State,Zip:	ETIWANDA, CA 917390000
EPA ID:	CAD981399843
Inactive Date:	06/30/1998
Create Date:	04/10/1987
Last Act Date:	09/14/2004
Mailing Name:	Not reported
Mailing Address:	1 RIVERFRONT PL
Mailing Address 2:	Not reported
Mailing City,State,Zip:	NEWPORT, KY 410714548
Owner Name:	--
Owner Address:	--
Owner Address 2:	Not reported
Owner City,State,Zip:	--, 99 --
Contact Name:	--
Contact Address:	INACT PER 98VQ FINAL NOTICE
Contact Address 2:	- BATCH 4/27
City,State,Zip:	--, 99 --

C23 **SOUTHERN CALIFORNIA EDISON - ETIWANDA GENERATING S** **ENVIROSTOR** **S108206306**
East **8998 ETIWANDA AVENUE** **San Bern. Co. Permit** **N/A**
< 1/8 **SAN BERNARDINO, CA 91739**
0.005 mi.
29 ft. **Site 1 of 4 in cluster C**

Relative: ENVIROSTOR:
Lower

Name:	SOUTHERN CALIFORNIA EDISON - ETIWANDA GENERATING STATION
Address:	8998 ETIWANDA AVENUE
City,State,Zip:	SAN BERNARDINO, CA 91739
Facility ID:	60001192
Status:	Active

Actual:
1114 ft.

SOUTHERN CALIFORNIA EDISON - ETIWANDA GENERATING STATION (Continued) **S108206306**

Status Date: 02/02/1995
Site Code: 400437
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 37
NPL: NO
Regulatory Agencies: HWMP
Lead Agency: HWMP
Program Manager: Steven Rounds
Supervisor: Allan Plaza
Division Branch: Cleanup Chatsworth
Assembly: 63, 40
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.08999
Longitude: -117.5240
APN: NONE SPECIFIED
Past Use: ABOVE GROUND STORAGE TANKS
Potential COC: Polychlorinated biphenyls (PCBs Vanadium and compounds
Confirmed COC: 30587-NO 30018-NO
Potential Description: SOIL
Alias Name: CAD079548574
Alias Type: EPA Identification Number
Alias Name: 400437
Alias Type: Project Code (Site Code)
Alias Name: 60001192
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 12/29/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 09/10/2012
Comments: NOE sent to CEQA unit for filing with State Clearinghouse.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Judicial Order
Completed Date: 02/06/1995
Comments: Order signed and recorded.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/14/2010
Comments: Review of annual groundwater monitoring results - no letter issued to facility

Completed Area Name: PROJECT WIDE

SOUTHERN CALIFORNIA EDISON - ETIWANDA GENERATING STATION (Continued) **S108206306**

Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/19/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/02/2011
Comments: DTSC internal review, no letter issued

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: RFI Report
Future Due Date: 2020
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: RFI Report
Future Due Date: 2020
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: RFI Workplan
Schedule Due Date: 02/10/2019
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: RFI Workplan
Schedule Due Date: 04/28/2020
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: RFI Workplan
Schedule Due Date: 03/29/2020
Schedule Revised Date: Not reported

San Bern. Co. Permit:
Name: ETIWANDA FACILITY
Address: 8998 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0002929
Owner: PACIFIC TERMINALS
Permit Number: PT0009394
Permit Category: HAZARDOUS WASTE GENERATOR - 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 08/31/2004

Name: ETIWANDA FACILITY
Address: 8998 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0002929
Owner: PACIFIC TERMINALS
Permit Number: PT0009393
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 08/31/2004

SOUTHERN CALIFORNIA EDISON - ETIWANDA GENERATING STATION (Continued) **S108206306**

Name: ETIWANDA FACILITY
Address: 8998 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0002929
Owner: PACIFIC TERMINALS
Permit Number: PT0009397
Permit Category: ABOVEGROUND PETROLEUM STORAGE (AST) (SPCC)
Facility Status: INACTIVE
Expiration Date: 08/31/2004

C24 **EPTC-ETIWANDA** **HWP** **S103675408**
East **8998 ETIWANDA AVE** **N/A**
< 1/8 **ETIWANDA, CA 91739**
0.005 mi.
29 ft. **Site 2 of 4 in cluster C**

Relative:
Lower

Actual:
1114 ft.

HWP:
Name: EPTC-ETIWANDA
Address: 8998 ETIWANDA AVE
City,State,Zip: ETIWANDA, CA 917390000
EPA Id: CAD079548574
Cleanup Status: CLOSED
Latitude: 34.09292
Longitude: -117.5241
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: 400437
Assembly District: 40
Senate District: 23
Public Information Officer: Not reported
Public Information Officer: Not reported

Closure:
EPA Id: CAD079548574
Facility Type: Historical - Non-Operating
Unit Names: Boiler Chemical Cleaning Basin (BCCB), North Wastewaster Retention Basin, South Wastewater Retention Basin, Unit 1 Fireside Wash Drain System, Unit 1: Boiler Acid Wash Drain System, Unit 2: Boiler Acid Wash Drain Syste,, Unit 2: Fireside Wash Drain System, Unit 3: Boiler Acid Wash Drain System, Unit 3: Fireside Wash Drain System , Unit 3: Fireside Wash System Sediment Tr, Unit 4: Acid Wash Drain System, Unit 4: Fireside Wash Drain System , Unit 4: Fireside Wash System Sediment Tr
Event Description: Closure Final - CLOSURE NOTICE RECEIVED
Actual Date: 12/21/2011

EPA Id: CAD079548574
Facility Type: Historical - Non-Operating
Unit Names: Boiler Chemical Cleaning Basin (BCCB), North Wastewaster Retention Basin, South Wastewater Retention Basin, Unit 1 Fireside Wash Drain System, Unit 1: Boiler Acid Wash Drain System, Unit 2: Boiler Acid Wash Drain Syste,, Unit 2: Fireside Wash Drain System, Unit 3: Boiler Acid Wash Drain System, Unit 3: Fireside Wash Drain System , Unit 3: Fireside Wash System Sediment Tr, Unit 4: Acid Wash Drain System, Unit 4: Fireside Wash Drain System , Unit 4: Fireside Wash System Sediment

EPTC-ETIWANDA (Continued) **S103675408**

Tr
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 12/21/2015

Alias:
EPA Id: CAD079548574
Facility Type: Historical - Non-Operating
Alias Type: Project Code (Site Code)
Alias: 400437

EPA Id: CAD079548574
Facility Type: Historical - Non-Operating
Alias Type: Alternate Name
Alias: SCE Etiwanda

EPA Id: CAD079548574
Facility Type: Historical - Non-Operating
Alias Type: Alternate Name
Alias: San Gabriel Generating Station

C25 **SCE ETIWANDA SWITCHYARD** **AST** **S104905499**
East **9000 ETIWANDA AVE** **San Bern. Co. Permit** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91739** **CERS**
0.005 mi.
29 ft. **Site 3 of 4 in cluster C**

Relative: AST:
Lower
Actual: Name: SCE-ETIWANDA SWITCHYARD
1114 ft. Address: 9000 ETIWANDA
City/Zip: RANCHO CUCAMONGA,
Certified Unified Program Agencies: San Bernardino
Owner: SOUTHERN CALIFORNIA EDISON
Total Gallons: 128,503
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported
Fax: Not reported
Mailing Address: Not reported
Mailing Address City: Not reported
Mailing Address State: Not reported
Mailing Address Zip Code: Not reported
Operator Name: Not reported
Operator Phone: Not reported
Owner Phone: Not reported
Owner Mail Address: Not reported
Owner State: Not reported
Owner Zip Code: Not reported
Owner Country: Not reported
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported

SCE ETIWANDA SWITCHYARD (Continued) **S104905499**

EPAID: Not reported

San Bern. Co. Permit:
Name: SCE ETIWANDA SWITCHYARD
Address: 9000 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0000016
Owner: Southern California Edison
Permit Number: PT0000294
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status: ACTIVE
Expiration Date: 02/28/2021

Name: SCE ETIWANDA SWITCHYARD
Address: 9000 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0000016
Owner: Southern California Edison
Permit Number: PT0020810
Permit Category: APSA EXEMPT
Facility Status: ACTIVE
Expiration Date: 02/28/2020

CERS:
Name: SCE ETIWANDA SWITCHYARD
Address: 9000 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 151555
CERS ID: 10034068
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-22-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-17-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION-SCE ETIWANDA
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-22-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

SCE ETIWANDA SWITCHYARD (Continued) **S104905499**

Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Coordinates:
Site ID: 151555
Facility Name: SCE Etiwanda Switchyard
Env Int Type Code: HMBP
Program ID: 10034068
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 34.089694
Longitude: -117.523887

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Environmental Contact
Entity Name: Environmental Notification Center
Entity Title: Not reported
Affiliation Address: P.O. Box 5085 (Attn: ESD, Programs & Governance)
Affiliation City: Rosemead
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91770
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Southern California Edison
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (626) 302-1212

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: P.O. Box 5085 (Attn: ESD, Programs & Governance)
Affiliation City: Rosemead
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91770
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer

SCE ETIWANDA SWITCHYARD (Continued) **S104905499**

Entity Name:	Roslyn Woods
Entity Title:	Consultant
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Southern California Edison
Entity Title:	Not reported
Affiliation Address:	P.O. Box 5085 (Attn: ESD, Programs & Governance)
Affiliation City:	Rosemead
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91770
Affiliation Phone:	(626) 302-1212
Affiliation Type Desc:	Property Owner
Entity Name:	Southern California Edison
Entity Title:	Not reported
Affiliation Address:	P.O. Box 5085 (Attn: ESD, Programs & Governance)
Affiliation City:	Rosemead
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91770
Affiliation Phone:	(626) 302-1212
Affiliation Type Desc:	Document Preparer
Entity Name:	Roslyn Woods
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Southern California Edison, Transmission and Distribution Organization (TD)
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

C26
ESE
< 1/8
0.014 mi.
73 ft.

VERIZON WIRELESS: CONCOURSE
9039 ETIWANDA AVE
FONTANA, CA 92336

San Bern. Co. Permit **S110071681**
CERS **N/A**

Site 4 of 4 in cluster C

Relative:
Lower

Actual:
1111 ft.

San Bern. Co. Permit:
Name: VERIZON WIRELESS: CONCOURSE
Address: 9039 ETIWANDA AVE
City,State,Zip: FONTANA, CA 92336
Region: SAN BERNARDINO
Facility ID: FA0012882
Owner: Verizon Wireless
Permit Number: PT0022522
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status: ACTIVE
Expiration Date: 11/30/2020

CERS:
Name: VERIZON WIRELESS: CONCOURSE
Address: 9039 ETIWANDA AVE
City,State,Zip: FONTANA, CA 92336
Site ID: 167898
CERS ID: 10161813
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 167898
Site Name: Verizon Wireless: Concourse
Violation Date: 03-05-2015
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description: Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 03/06/2015. A BUSINESS PLAN HAS NOT BEEN SUBMITTED TO THE "CERS" DATABASE.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-05-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: REGULAR INSPECTION.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-19-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

VERIZON WIRELESS: CONCOURSE (Continued) **S110071681**

Enforcement Action:

Site ID:	167898
Site Name:	Verizon Wireless: Concourse
Site Address:	9039 ETIWANDA AVE
Site City:	FONTANA
Site Zip:	92336
Enf Action Date:	03-05-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Wilson Rodriguez
Entity Title:	Engr III Spec-RE/Regulatory
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Verizon Wireless [Southern California]
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Environmental Compliance
Entity Title:	Not reported
Affiliation Address:	15505 Sand Canyon Avenue, MS D-104
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92618
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Verizon Wireless
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(949) 286-7000

Affiliation Type Desc:	Document Preparer

VERIZON WIRELESS: CONCOURSE (Continued) **S110071681**

Entity Name:	Steve Skanderson, Stantec
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	15505 Sand Canyon Avenue, MS D-104
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92618
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Legal Owner
Entity Name:	Verizon Wireless
Entity Title:	Not reported
Affiliation Address:	15505 Sand Canyon Avenue, MS D-104
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92618
Affiliation Phone:	(949) 286-7000

B27 **ALL STATE PAPER & METAL RECYCLING CO INC** **NPDES** **S107136621**
ENE **8889 ETIWANDA AVE** **San Bern. Co. Permit** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91739**
0.021 mi.
112 ft. **Site 2 of 2 in cluster B**

Relative: **Lower**
Actual: **1120 ft.**

NPDES:

Name:	ALL STATE PAPER & METAL RECYCLING CO INC
Address:	8889 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36MR000023

ALL STATE PAPER & METAL RECYCLING CO INC (Continued) **S107136621**

Regulatory Measure Type:	Region 8 - Scrap Metal Permit
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	10/18/2017
Operator Name:	All State Paper & Metal Recycling Co Inc
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	426996
Order Number:	Not reported
Regulatory Measure Type:	Region 8 - Scrap Metal Permit
Place ID:	Not reported
WDID:	8 36MR000023
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/11/2012
Processed Date:	05/18/2012
Status:	Active
Status Date:	05/18/2012
Place Size:	3.2
Place Size Unit:	Acres
Contact:	Jerry Lin
Contact Title:	Operations
Contact Phone:	909-899-3613
Contact Phone Ext:	Not reported
Contact Email:	jerry_lin@allstaterecycle.com
Operator Name:	All State Paper & Metal Recycling Co Inc
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported

ALL STATE PAPER & METAL RECYCLING CO INC (Continued) **S107136621**

Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Private Individual
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Etiwanda Creek
Certifier:	Jerry Lin
Certifier Title:	Operations
Certification Date:	11-MAY-12
Primary Sic:	5093-Scrap and Waste Materials
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	426996
Order Number:	Not reported
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36MR000023
Program Type:	Region 8 - Scrap Metal Permit
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/18/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	10/18/2017
Discharge Name:	All State Paper & Metal Recycling Co Inc
Discharge Address:	8889 Etiwanda Ave
Discharge City:	Rancho Cucamonga
Discharge State:	California
Discharge Zip:	91737

ALL STATE PAPER & METAL RECYCLING CO INC (Continued) **S107136621**

Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

ALL STATE PAPER & METAL RECYCLING CO INC (Continued) **S107136621**

Name:	ALL STATE PAPER & METAL RECYCLING CO INC
Address:	8889 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility Status:	Terminated
NPDES Number:	Not reported
Region:	8
Agency Number:	0
Regulatory Measure ID:	426996
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36MR000023
Regulatory Measure Type:	Enrollee
Program Type:	Region 8 - Scrap Metal Permit
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/18/2012
Termination Date Of Regulatory Measure:	10/18/2017
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	8889 Etiwanda Ave
Discharge Name:	All State Paper & Metal Recycling Co Inc
Discharge City:	Rancho Cucamonga
Discharge State:	California
Discharge Zip:	91737
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	426996
Order Number:	Not reported
Regulatory Measure Type:	Region 8 - Scrap Metal Permit
Place ID:	Not reported
WDID:	8 36MR000023
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/11/2012
Processed Date:	05/18/2012
Status:	Active
Status Date:	05/18/2012
Place Size:	3.2
Place Size Unit:	Acres
Contact:	Jerry Lin
Contact Title:	Operations

ALL STATE PAPER & METAL RECYCLING CO INC (Continued) **S107136621**

Contact Phone:	909-899-3613
Contact Phone Ext:	Not reported
Contact Email:	jerry_lin@allstaterecycle.com
Operator Name:	All State Paper & Metal Recycling Co Inc
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Private Individual
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Etiwanda Creek
Certifier:	Jerry Lin
Certifier Title:	Operations
Certification Date:	11-MAY-12
Primary Sic:	5093-Scrap and Waste Materials
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	426996
Order Number:	Not reported
Regulatory Measure Type:	Enrollee
Place ID:	Not reported

ALL STATE PAPER & METAL RECYCLING CO INC (Continued) **S107136621**

WDID:	8 36MR000023
Program Type:	Region 8 - Scrap Metal Permit
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/18/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	10/18/2017
Discharge Name:	All State Paper & Metal Recycling Co Inc
Discharge Address:	8889 Etiwanda Ave
Discharge City:	Rancho Cucamonga
Discharge State:	California
Discharge Zip:	91737
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported

ALL STATE PAPER & METAL RECYCLING CO INC (Continued) **S107136621**

Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	ALLSTATE PAPER & METAL RECYCLING CO
Address:	8889 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0010121
Owner:	ALLSTATE PAPER & METAL RECYCLG
Permit Number:	PT0017285
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	01/31/2017

Name:	ALLSTATE PAPER & METAL RECYCLING CO
Address:	8889 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0010121
Owner:	ALLSTATE PAPER & METAL RECYCLG
Permit Number:	PT0017286
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	01/31/2017

D28 **SA RECYCLING** **RCRA NonGen / NLR** **1024828030**
NE **8822 ETIWANDA AVE** **CAL000359034**
< 1/8 **RANCHO CUCAMONGA, CA 91739**
0.047 mi.
248 ft. **Site 1 of 8 in cluster D**

Relative:
Higher

Actual:
1128 ft.

RCRA NonGen / NLR:

Date form received by agency:	2010-11-29 00:00:00.0
Facility name:	SA RECYCLING
Facility address:	8822 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739
EPA ID:	CAL000359034
Mailing address:	2411 N GLASSELL ORANGE, CA 92865-0000
Contact:	TESHA JOHNSON
Contact address:	2411 N. GLASSEL ORANGE, CA 92865
Contact country:	Not reported
Contact telephone:	714-283-6188
Contact email:	TJOHNSON@SARECYCLING.COM
EPA Region:	09
Classification:	Non-Generator

SA RECYCLING (Continued) **1024828030**

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	TESHA JOHNSON
Owner/operator address:	2411 N. GLASSEL ORANGE, CA 92865
Owner/operator country:	Not reported
Owner/operator telephone:	714-283-6188
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	SA RECYCLING LLC
Owner/operator address:	2411 N GLASSELL STREET ORANGE, CA 92865
Owner/operator country:	Not reported
Owner/operator telephone:	714-632-2000
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

D29 **DP ETIWANDA** **RCRA-LQG** **1024876582**
NE **8822 ETIWANDA AVE** **CAP000290510**
< 1/8 **RANCHO CUCAMONGA, CA 91739**
0.047 mi.
248 ft. **Site 2 of 8 in cluster D**

Relative:
Higher

Actual:
1128 ft.

RCRA-LQG:

Date form received by agency:	2018-12-04 00:00:00.0
Facility name:	DP ETIWANDA
Facility address:	8822 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739
EPA ID:	CAP000290510
Mailing address:	SOUTH EASTMAN AVE LOS ANGELES, CA 90023
Contact:	MIKE CREWS
Contact address:	PARK PLAZA SUITE 500 IRVINE, CA 92614
Contact country:	US
Contact telephone:	949-584-5437
Contact email:	MCREWS@RAMBOLL.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	DP ETIWANDA, LLC
Owner/operator address:	SOUTH EASTMAN LOS ANGELES, CA 90023
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	DP ETIWANDA, LLC
Owner/operator address:	SOUTH EASTMAN LOS ANGELES, CA 90023
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator

DP ETIWANDA (Continued) **1024876582**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

D30 **SA RECYCLING** **ENVIROSTOR** **S102795943**
NE **8822 ETIWANDA AVENUE** **VCP** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91739** **CHMIRS**
0.047 mi. **EMI**
248 ft. **Site 3 of 8 in cluster D** **HAZNET**
NPDES
Relative: Higher **San Bern. Co. Permit**
CIWQS
Actual: 1128 ft. **CERS**
HWTS

ENVIROSTOR:
Name: DP ETIWANDA
Address: 8822 ETIWANDA AVENUE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Facility ID: 60002634
Status: Active
Status Date: 03/26/2018
Site Code: 401825
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 11.82
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP

SA RECYCLING (Continued) **S102795943**

Program Manager: Rana Georges
Supervisor: Yolanda Garza
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: , 40
Senate: , 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.09373
Longitude: -117.5272
APN: NONE SPECIFIED
Past Use: RAILROAD RIGHT OF WAY, UNDERGROUND STORAGE TANKS, RECYCLING - SCRAP METAL
Potential COC: Lead Polychlorinated biphenyls (PCBs TPH-MOTOR OIL Cadmium and compounds
Confirmed COC: Lead Polychlorinated biphenyls (PCBs TPH-MOTOR OIL Cadmium and compounds
Potential Description: UE
Alias Name: 401825
Alias Type: Project Code (Site Code)
Alias Name: 60002634
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 03/26/2018
Comments: VCP Application submitted by RP via email on 03/26/18.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/26/2018
Comments: Provided as background information

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 08/02/2018
Comments: DTSC approved workplan for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/28/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/26/2018
Comments: Site visit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan

SA RECYCLING (Continued) **S102795943**

Completed Date: 08/27/2018
Comments: DTSC approved scope of work to conduct site characterization.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/01/2020
Comments: DTSC issued a PEA Adequacy.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/11/2019
Comments: Annual cost estimate provided to proponent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 04/12/2018
Comments: DTSC prepared a project cost estimate

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/24/2018
Comments: FY 1819 Estimate: $11,662

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/03/2018
Comments: Copy of fully executed VCA sent to RP contact.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 10/12/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/02/2020
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Plan
Future Due Date: 2020
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2020
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2021

SA RECYCLING (Continued) **S102795943**

Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Community Profile
Future Due Date:	2020
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Land Use Restriction
Future Due Date:	2020
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Name:	DP ETIWANDA
Address:	8822 ETIWANDA AVENUE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility ID:	60002634
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	11.82
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Rana Georges
Supervisor:	Yolanda Garza
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	401825
Assembly:	, 40
Senate:	, 23
Special Programs Code:	Not reported
Status:	Active
Status Date:	03/26/2018
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	34.09373 / -117.5272
APN:	NONE SPECIFIED
Past Use:	RAILROAD RIGHT OF WAY, UNDERGROUND STORAGE TANKS, RECYCLING - SCRAP METAL
Potential COC:	30013, 30018, 3002502, 30108
Confirmed COC:	30013,30018,3002502,30108
Potential Description:	UE
Alias Name:	401825
Alias Type:	Project Code (Site Code)
Alias Name:	60002634
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Application
Completed Date:	03/26/2018
Comments:	VCP Application submitted by RP via email on 03/26/18.

SA RECYCLING (Continued) **S102795943**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/26/2018
Comments: Provided as background information

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 08/02/2018
Comments: DTSC approved workplan for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/28/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/26/2018
Comments: Site visit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 08/27/2018
Comments: DTSC approved scope of work to conduct site characterization.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/01/2020
Comments: DTSC issued a PEA Adequacy.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/11/2019
Comments: Annual cost estimate provided to proponent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 04/12/2018
Comments: DTSC prepared a project cost estimate

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/24/2018
Comments: FY 1819 Estimate: $11,662

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement

SA RECYCLING (Continued) **S102795943**

Completed Date: 05/03/2018
Comments: Copy of fully executed VCA sent to RP contact.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 10/12/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/02/2020
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Plan
Future Due Date: 2020
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2020
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2021
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Community Profile
Future Due Date: 2020
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2020
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CHMIRS:
Name: Not reported
Address: 8822 ETIWANDA AV
City,State,Zip: RANCHO CUCAMONGA, CA
OES Incident Number: 3-2640
OES notification: 05/21/2003
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported

SA RECYCLING (Continued) **S102795943**

Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	N/a
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2003
Agency:	Citizen
Incident Date:	5/21/200312:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Unknown
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Metal dust
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Per caller he works at a near by business and is outside a lot and is concerned about the amount of dust that emanates from a near by recycling plant. Caller has attempted to contact local

SA RECYCLING (Continued) **S102795943**

agencies to seek assistance but was unsuccessful to date.

EMI:

Name:	PACIFIC COAST RECYCLING, LLC
Address:	8822 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Year:	2008
County Code:	36
Air Basin:	SC
Facility ID:	138005
Air District Name:	SC
SIC Code:	5051
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.615288459446659762
Reactive Organic Gases Tons/Yr:	2.546188
Carbon Monoxide Emissions Tons/Yr:	.13
NOX - Oxides of Nitrogen Tons/Yr:	.11306
SOX - Oxides of Sulphur Tons/Yr:	.001863
Particulate Matter Tons/Yr:	.888235
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.61627183

Name:	PACIFIC COAST RECYCLING, LLC
Address:	8822 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Year:	2009
County Code:	36
Air Basin:	SC
Facility ID:	138005
Air District Name:	SC
SIC Code:	5051
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.2084162489919301E-3
Reactive Organic Gases Tons/Yr:	0.001114
Carbon Monoxide Emissions Tons/Yr:	0.01
NOX - Oxides of Nitrogen Tons/Yr:	5.1000000000000004E-4
SOX - Oxides of Sulphur Tons/Yr:	0.0000265
Particulate Matter Tons/Yr:	3.2499999999999997E-5
Part. Matter 10 Micrometers and Smllr Tons/Yr:	3.2305000000000003E-5

Name:	PACIFIC COAST RECYCLING, LLC
Address:	8822 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Year:	2010
County Code:	36
Air Basin:	SC
Facility ID:	138005
Air District Name:	SC
SIC Code:	5051
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8.4388185654008394E-5

SA RECYCLING (Continued) **S102795943**

Reactive Organic Gases Tons/Yr:	8.0000000000000007E-5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HAZNET:

Name:	SA RECYCLING
Address:	8822 ETIWANDA AVENUE
Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Contact:	TEDDY GRAVES
Telephone:	7144958020
Mailing Name:	Not reported
Mailing Address:	3200 E. FRONTERA STREET
Year:	2017
Gepaid:	CAC002925489
TSD EPA ID:	AZC950823111
CA Waste Code:	151 - Asbestos containing waste
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	9.2

Additional Info:

Year:	2017
Gen EPA ID:	CAC002925489
Shipment Date:	20170918
Creation Date:	7/10/2018 18:30:28
Receipt Date:	20170921
Manifest ID:	017931025JJK
Trans EPA ID:	CAR000049064
Trans Name:	ECTI
Trans 2 EPA ID:	CAR000045963
Trans 2 Name:	ARO TRUCKING
TSDF EPA ID:	AZC950823111
Trans Name:	LA PAZ COUNTY LANDFILL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	9.2
Waste Quantity:	40
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SA RECYCLING (Continued) **S102795943**

NPDES:

Name:	ETIWANDA RANCHO CUCAMONGA
Address:	8822 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36C382576
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	02/26/2018
Operator Name:	DP Etiwanda LLC
Operator Address:	PO Box 82691
Operator City:	Goleta
Operator State:	California
Operator Zip:	93118

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	494925
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36C382576
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/26/2018
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	DP Etiwanda LLC
Discharge Address:	1430 S Eastman Ave
Discharge City:	Los Angeles
Discharge State:	California
Discharge Zip:	90023
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported

SA RECYCLING (Continued) **S102795943**

Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	SA RECYCLING
Address:	8822 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility Status:	Not reported
NPDES Number:	Not reported

SA RECYCLING (Continued) **S102795943**

Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36MR000005
Regulatory Measure Type:	Region 8 - Scrap Metal Permit
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	10/18/2017
Operator Name:	SA Recycling LLC 41
Operator Address:	3200 East Frontera Street
Operator City:	Anaheim
Operator State:	California
Operator Zip:	92806

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	426783
Order Number:	Not reported
Regulatory Measure Type:	Region 8 - Scrap Metal Permit
Place ID:	Not reported
WDID:	8 36MR000005
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/03/2012
Processed Date:	05/10/2012
Status:	Active
Status Date:	05/10/2012
Place Size:	4.25
Place Size Unit:	Acres
Contact:	Lindsay Maine
Contact Title:	EHS Manager
Contact Phone:	714-283-6100
Contact Phone Ext:	0411
Contact Email:	lmaine@sarecycling.com
Operator Name:	SA Recycling LLC 41
Operator Address:	8822 Etiwanda Ave

SA RECYCLING (Continued) **S102795943**

Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91739
Operator Contact:	Lindsay Maine
Operator Contact Title:	EHS Manager
Operator Contact Phone:	714-283-6100
Operator Contact Phone Ext:	0411
Operator Contact Email:	lmaine@sarecycling.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Pacific Ocean
Certifier:	Tesha Johnson
Certifier Title:	Not reported
Certification Date:	03-MAY-12
Primary Sic:	5093-Scrap and Waste Materials
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	426783
Order Number:	Not reported
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36MR000005
Program Type:	Region 8 - Scrap Metal Permit
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/10/2012
Expiration Date Of Regulatory Measure:	Not reported

SA RECYCLING (Continued) **S102795943**

Termination Date Of Regulatory Measure:	09/26/2017
Discharge Name:	SA Recycling LLC 41
Discharge Address:	3200 East Frontera Street
Discharge City:	Anaheim
Discharge State:	California
Discharge Zip:	92806
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported

SA RECYCLING (Continued) **S102795943**

Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	SA RECYCLING
Address:	8822 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility Status:	Terminated
NPDES Number:	Not reported
Region:	8
Agency Number:	0
Regulatory Measure ID:	426783
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36MR000005
Regulatory Measure Type:	Enrollee
Program Type:	Region 8 - Scrap Metal Permit
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/10/2012
Termination Date Of Regulatory Measure:	09/26/2017
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	3200 East Frontera Street
Discharge Name:	SA Recycling LLC 41
Discharge City:	Anaheim
Discharge State:	California
Discharge Zip:	92806
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	426783
Order Number:	Not reported
Regulatory Measure Type:	Region 8 - Scrap Metal Permit
Place ID:	Not reported
WDID:	8 36MR000005
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/03/2012

SA RECYCLING (Continued) **S102795943**

Processed Date:	05/10/2012
Status:	Active
Status Date:	05/10/2012
Place Size:	4.25
Place Size Unit:	Acres
Contact:	Lindsay Maine
Contact Title:	EHS Manager
Contact Phone:	714-283-6100
Contact Phone Ext:	0411
Contact Email:	lmaine@sarecycling.com
Operator Name:	SA Recycling LLC 41
Operator Address:	8822 Etiwanda Ave
Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91739
Operator Contact:	Lindsay Maine
Operator Contact Title:	EHS Manager
Operator Contact Phone:	714-283-6100
Operator Contact Phone Ext:	0411
Operator Contact Email:	lmaine@sarecycling.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Pacific Ocean
Certifier:	Tesha Johnson
Certifier Title:	Not reported
Certification Date:	03-MAY-12
Primary Sic:	5093-Scrap and Waste Materials
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported

SA RECYCLING (Continued) **S102795943**

Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	426783
Order Number:	Not reported
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36MR000005
Program Type:	Region 8 - Scrap Metal Permit
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/10/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	09/26/2017
Discharge Name:	SA Recycling LLC 41
Discharge Address:	3200 East Frontera Street
Discharge City:	Anaheim
Discharge State:	California
Discharge Zip:	92806
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported

SA RECYCLING (Continued) **S102795943**

Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	ETIWANDA RANCHO CUCAMONGA
Address:	8822 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA
Facility Status:	Active
NPDES Number:	CAS000002
Region:	8
Agency Number:	0
Regulatory Measure ID:	494925
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	8 36C382576
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/26/2018
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	PO Box 82691
Discharge Name:	DP Etiwanda LLC
Discharge City:	Goleta
Discharge State:	California
Discharge Zip:	93118
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	494925
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported

SA RECYCLING (Continued) **S102795943**

WDID:	8 36C382576
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/26/2018
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	DP Etiwanda LLC
Discharge Address:	1430 S Eastman Ave
Discharge City:	Los Angeles
Discharge State:	California
Discharge Zip:	90023
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported

SA RECYCLING (Continued) **S102795943**

Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	SIMSMETAL AMERICA
Address:	8822 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0006201
Owner:	SIMSMETAL AMERICA
Permit Number:	PT0002260
Permit Category:	HAZARDOUS WASTE GENERATOR - 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	07/31/2004

Name:	SIMSMETAL AMERICA
Address:	8822 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0006201
Owner:	SIMSMETAL AMERICA
Permit Number:	PT0002261
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
Facility Status:	INACTIVE
Expiration Date:	07/31/2004

Name:	SA RECYCLING
Address:	8822 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0007940
Owner:	SA RECYCLING LLC
Permit Number:	PT0026079
Permit Category:	APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status:	INACTIVE
Expiration Date:	11/30/2018

Name:	SA RECYCLING
Address:	8822 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0007940
Owner:	SA RECYCLING LLC
Permit Number:	PT0013871
Permit Category:	LARGE QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	11/30/2018

SA RECYCLING (Continued) **S102795943**

Name: SA RECYCLING
Address: 8822 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0007940
Owner: SA RECYCLING LLC
Permit Number: PT0013872
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 11/30/2018

Name: SA RECYCLING
Address: 8822 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0007940
Owner: SA RECYCLING LLC
Permit Number: PT0018793
Permit Category: APPLIANCE RECYCLER
Facility Status: INACTIVE
Expiration Date: 11/30/2017

CIWQS:

Name:	ETIWANDA RANCHO CUCAMONGA
Address:	8822 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA CA
Agency:	DP Etiwanda LLC
Agency Address:	PO Box 82691, Goleta, CA 93118
Place/Project Type:	Construction
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 36C382576
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	02/26/2018
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	1
Violations within 5 years:	1
Latitude:	34.09383
Longitude:	-117.52443

CERS:

Name:	PACIFIC COAST RECYCLING, LLC
Address:	8822 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Site ID:	485394
CERS ID:	110041389253

SA RECYCLING (Continued) **S102795943**

CERS Description: US EPA Air Emission Inventory System (EIS)

Name: ETIWANDA RANCHO CUCAMONGA
Address: 8822 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA CA
Site ID: 531539
CERS ID: 861820
CERS Description: Construction Storm Water

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: DP Etiwanda LLC
Entity Title: Operator
Affiliation Address: PO Box 82691
Affiliation City: Goleta
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93118
Affiliation Phone: Not reported

HWTS:
Name: SA RECYCLING
Address: 8822 ETIWANDA AVENUE
Address 2: Not reported
City,State,Zip: RANCHO CUCAMONGA, CA 91739
EPA ID: CAC002925489
Inactive Date: 11/29/2017
Create Date: 08/28/2017
Last Act Date: 11/29/2017
Mailing Name: Not reported
Mailing Address: 3200 E. FRONTERA STREET
Mailing Address 2: Not reported
Mailing City,State,Zip: ANAHEIM, CA 92806
Owner Name: SA RECYCLING
Owner Address: 3200 E. FRONTERA STREET
Owner Address 2: Not reported
Owner City,State,Zip: ANAHEIM, CA 92806
Contact Name: TEDDY GRAVES
Contact Address: 3200 E. FRONTERA STREET
Contact Address 2: Not reported
City,State,Zip: ANAHEIM, CA 92806

D31 **SIMSMETAL AMERICA** **RCRA-SQG** **1000367428**
NE **8822 ETIWANDA AVE** **SWEEPS UST** **CAD981368228**
< 1/8 **ETIWANDA, CA 91739** **HIST UST**
0.047 mi. **FINDS**
248 ft. **Site 4 of 8 in cluster D** **ECHO**
EMI
Relative: Higher **HAZNET**
HWTS
Actual: 1128 ft.

RCRA-SQG:
Date form received by agency: 1998-07-15 00:00:00.0
Facility name: SIMSMETAL AMERICA
Facility address: 8822 ETIWANDA AVE
ETIWANDA, CA 91739
EPA ID: CAD981368228

SIMSMETAL AMERICA (Continued) **1000367428**

Contact:	SCOTT MILLER
Contact address:	600 S FOURTH ST RICHMOND, CA 94804-3504
Contact country:	US
Contact telephone:	510-412-5300
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	SIMSMETAL USA CORP
Owner/operator address:	600 S FOURTH ST RICHMOND, CA 94804
Owner/operator country:	Not reported
Owner/operator telephone:	510-412-5300
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No

SIMSMETAL AMERICA (Continued) **1000367428**

Used oil transporter: No

Historical Generators:
Date form received by agency: 1996-09-01 00:00:00.0
Site name: SIMSMETAL AMERICA
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

SWEEPS UST:
Name: FERROMET INC.
Address: 8822 ETIWANDA AVE
City: ETIWANDA
Status: Active
Comp Number: 54331
Number: 9
Board Of Equalization: 44-021208
Referral Date: 08-28-91
Action Date: 08-28-91
Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 36-000-054331-000001
Tank Status: A
Capacity: 9940
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 2

Name: FERROMET INC.
Address: 8822 ETIWANDA AVE
City: ETIWANDA
Status: Active
Comp Number: 54331
Number: 9
Board Of Equalization: 44-021208
Referral Date: 08-28-91
Action Date: 08-28-91
Created Date: 02-29-88
Owner Tank Id: #2
SWRCB Tank Id: 36-000-054331-000002
Tank Status: A
Capacity: 1009
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

HIST UST:

SIMSMETAL AMERICA (Continued) **1000367428**

Name:	FERROMET INC
Address:	8822 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
File Number:	00029E91
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029E91.pdf
Region:	STATE
Facility ID:	00000054331
Facility Type:	Other
Other Type:	RECYCLING
Contact Name:	WM. HIGHTOWER
Telephone:	7148991767
Owner Name:	FERROMET INC.
Owner Address:	8822 ETIWANDA AVE.
Owner City,St,Zip:	ETIWANDA, CA 91739
Total Tanks:	0003
Tank Num:	001
Container Num:	0000000001
Year Installed:	1980
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	#1
Year Installed:	1972
Tank Capacity:	00000555
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	12
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	#2
Year Installed:	1972
Tank Capacity:	00001009
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	10
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

FINDS:
Registry ID: 110002682464

Click Here:

Environmental Interest/Information System:
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

SIMSMETAL AMERICA (Continued) **1000367428**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000367428
Registry ID:	110002682464
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002682464
Name:	SIMSMETAL AMERICA
Address:	8822 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739

EMI:

Name:	FERROMET INC
Address:	8822 ETIWANDA AV
City,State,Zip:	ETIWANDA, CA 91739
Year:	1987
County Code:	36
Air Basin:	SC
Facility ID:	20546
Air District Name:	SC
SIC Code:	5093
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	FERROMET INC
Address:	8822 ETIWANDA AV
City,State,Zip:	ETIWANDA, CA 91739
Year:	1990
County Code:	36
Air Basin:	SC
Facility ID:	20546
Air District Name:	SC
SIC Code:	5093
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

SIMSMETAL AMERICA (Continued) **1000367428**

HAZNET:

Name:	SIMSMETAL AMERICA/ETIWANDA DIVISION
Address:	8822 ETIWANDA AVE
Address 2:	Not reported
City,State,Zip:	ETIWANDA, CA 917390000
Contact:	SCOTT A MILLER MNGR ENVTL AFFA
Telephone:	5104125345
Mailing Name:	Not reported
Mailing Address:	600 SOUTH 4TH STREET
Year:	2003
Gepaid:	CAD981368228
TSD EPA ID:	CAT080013352
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	R01 - Recycler
Tons:	0.063
Year:	2002
Gepaid:	CAD981368228
TSD EPA ID:	CAT000646117
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	D80 - Disposal, Land Fill
Tons:	0.45
Year:	2001
Gepaid:	CAD981368228
TSD EPA ID:	CAT000646117
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	D80 - Disposal, Land Fill
Tons:	1.4
Year:	2000
Gepaid:	CAD981368228
TSD EPA ID:	CAT080013352
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	R01 - Recycler
Tons:	5.004
Year:	2000
Gepaid:	CAD981368228
TSD EPA ID:	CAT000646117
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	D80 - Disposal, Land Fill
Tons:	0.25
Year:	1999
Gepaid:	CAD981368228
TSD EPA ID:	CAT000646117
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	D80 - Disposal, Land Fill
Tons:	3.85
Year:	1999
Gepaid:	CAD981368228
TSD EPA ID:	CAT080013352
CA Waste Code:	222 - Oil/water separation sludge
Disposal Method:	R01 - Recycler

SIMSMETAL AMERICA (Continued) **1000367428**

Tons: 8.757

Year: 1998
Gepaid: CAD981368228
TSD EPA ID: CAT000646117
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: D80 - Disposal, Land Fill
Tons: 2.8

Year: 1998
Gepaid: CAD981368228
TSD EPA ID: AZD983473539
CA Waste Code: 261 - Polychlorinated biphenyls and material containing PCBs
Disposal Method: -
Tons: 0.4848

Year: 1998
Gepaid: CAD981368228
TSD EPA ID: AZD983473539
CA Waste Code: -
Disposal Method: T03 - Treatment, Incineration
Tons: 0

Click this hyperlink while viewing on your computer to access
3 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2000
Gen EPA ID: CAD981368228

Shipment Date: 20001207
Creation Date: 2/1/2001 0:00:00
Receipt Date: 20001208
Manifest ID: 98383899
Trans EPA ID: CAD982030173
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT000646117
Trans Name: Not reported
TSDF Alt EPA ID: CAT000646117
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 0.25
Waste Quantity: 500
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20000113
Creation Date: 3/22/2000 0:00:00

SIMSMETAL AMERICA (Continued) **1000367428**

Receipt Date:	20000113
Manifest ID:	99539494
Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2.919
Waste Quantity:	700
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000106
Creation Date:	3/7/2000 0:00:00
Receipt Date:	20000107
Manifest ID:	99539483
Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2.085
Waste Quantity:	500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAD981368228

Shipment Date:	20010713
Creation Date:	10/1/2001 0:00:00
Receipt Date:	20010719
Manifest ID:	21167405
Trans EPA ID:	CAD063547996
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported

SIMSMETAL AMERICA (Continued) **1000367428**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000646117
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.9
Waste Quantity:	1800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010412
Creation Date:	6/20/2001 0:00:00
Receipt Date:	20010412
Manifest ID:	96772399
Trans EPA ID:	CAD063547996
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000646117
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2003
Gen EPA ID:	CAD981368228

Shipment Date:	20030618
Creation Date:	7/22/2004 8:36:14
Receipt Date:	20030618
Manifest ID:	21193994
Trans EPA ID:	CAT080032253
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported

SIMSMETAL AMERICA (Continued) **1000367428**

Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.021
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030618
Creation Date:	7/22/2004 8:36:14
Receipt Date:	20030618
Manifest ID:	21193996
Trans EPA ID:	CAT080032253
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.021
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030618
Creation Date:	7/22/2004 8:36:14
Receipt Date:	20030618
Manifest ID:	21193995
Trans EPA ID:	CAT080032253
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.021
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

SIMSMETAL AMERICA (Continued) **1000367428**

Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1999
Gen EPA ID:	CAD981368228
Shipment Date:	19991018
Creation Date:	12/16/1999 0:00:00
Receipt Date:	19991018
Manifest ID:	99539264
Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000646117
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1.6
Waste Quantity:	3200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990924
Creation Date:	11/22/1999 0:00:00
Receipt Date:	19990924
Manifest ID:	99240235
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	5.421
Waste Quantity:	1300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990922
Creation Date:	11/19/1999 0:00:00

SIMSMETAL AMERICA (Continued) **1000367428**

Receipt Date:	19991001
Manifest ID:	99539205
Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000646117
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	2.25
Waste Quantity:	4500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19990405
Creation Date:	5/20/1999 0:00:00
Receipt Date:	19990405
Manifest ID:	98165047
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	3.336
Waste Quantity:	800
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAD981368228

Shipment Date:	20020613
Creation Date:	9/3/2002 18:32:13
Receipt Date:	20020620
Manifest ID:	21345596
Trans EPA ID:	CAD063547996
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported

SIMSMETAL AMERICA (Continued) **1000367428**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAD981368228
Shipment Date:	19981119
Creation Date:	1/11/2000 0:00:00
Receipt Date:	19991119
Manifest ID:	99539316
Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	2.8
Waste Quantity:	5600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980527
Creation Date:	8/3/1998 0:00:00
Receipt Date:	19980529
Manifest ID:	96212151
Trans EPA ID:	CAD063547996
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD983473539
Trans Name:	Not reported
TSDF Alt EPA ID:	AZD983473539
TSDF Alt Name:	Not reported

SIMSMETAL AMERICA (Continued) **1000367428**

Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0
Waste Quantity:	0
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980527
Creation Date:	8/3/1998 0:00:00
Receipt Date:	19980529
Manifest ID:	96212151
Trans EPA ID:	CAD063547996
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD983473539
Trans Name:	Not reported
TSDF Alt EPA ID:	AZD983473539
TSDF Alt Name:	Not reported
Waste Code Description:	261 - Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	3.8074
Waste Quantity:	3455
Quantity Unit:	K
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980527
Creation Date:	8/3/1998 0:00:00
Receipt Date:	19980529
Manifest ID:	96212151
Trans EPA ID:	CAD063547996
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD983473539
Trans Name:	Not reported
TSDF Alt EPA ID:	AZD983473539
TSDF Alt Name:	Not reported
Waste Code Description:	261 - Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.4848
Waste Quantity:	440
Quantity Unit:	K
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

SIMSMETAL AMERICA (Continued) **1000367428**

Additional Code 4: Not reported
Additional Code 5: Not reported

HWTS:
Name: SIMSMETAL AMERICA/ETIWANDA DIVISION
Address: 8822 ETIWANDA AVE
Address 2: Not reported
City,State,Zip: ETIWANDA, CA 917390000
EPA ID: CAD981368228
Inactive Date: 06/30/2004
Create Date: 04/10/1987
Last Act Date: 08/10/2004
Mailing Name: Not reported
Mailing Address: 600 SOUTH 4TH STREET
Mailing Address 2: Not reported
Mailing City,State,Zip: RICHMOND, CA 948043504
Owner Name: SIMSMETAL USA CORPORATION
Owner Address: 600 SOUTH 4TH ST
Owner Address 2: Not reported
Owner City,State,Zip: RICHMOND, CA 948043504
Contact Name: SCOTT A MILLER MNGR ENVTL AFFA
Contact Address: 600 SOUTH 4TH STREET
Contact Address 2: Not reported
City,State,Zip: RICHMOND, CA 948043504

NAICS:
EPA ID: CAD981368228
Create Date: 2002-03-14 16:36:26
NAICS Code: 42193
NAICS Description: Recyclable Material Wholesalers
Issued EPA ID Date: 1987-04-10 00:00:00
Inactive Date: 2004-06-30 00:00:00
Facility Name: SIMSMETAL AMERICA/ETIWANDA DIVISION
Facility Address: 8822 ETIWANDA AVE
Facility Address 2: Not reported
Facility City: ETIWANDA
Facility County: 36
Facility State: CA
Facility Zip: 917390000

D32 **SA RECYCLING** **AST** **S113160586**
NE **8822 ETIWANDA AVE** **HAZNET** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91739** **CIWQS**
0.047 mi. **HWTS**
248 ft. **Site 5 of 8 in cluster D**

Relative: Higher
Actual: 1128 ft.

AST:
Name: SA RECYCLING
Address: 8822 ETIWANDA AVE
City/Zip: RANCHO CUCAMONGA,91739
Certified Unified Program Agencies: Not reported
Owner: SA RECYCLING LLC
Total Gallons: Not reported
CERSID: 10047745
Facility ID: FA0007940
Business Name: SA Recycling Corporate
Phone: (909) 899-1767

SA RECYCLING (Continued) **S113160586**

Fax:	(909) 899-4595
Mailing Address:	2411 N Glassell
Mailing Address City:	Orange
Mailing Address State:	CA
Mailing Address Zip Code:	92865
Operator Name:	Ruben Gallardo
Operator Phone:	909.899.1767
Owner Phone:	(714) 632-2000
Owner Mail Address:	2411 N Glassell St
Owner State:	CA
Owner Zip Code:	92865
Owner Country:	United States
Property Owner Name:	SA Recycling LLC
Property Owner Phone:	714-632-2000
Property Owner Mailing Address:	2411 N Glassell
Property Owner City:	Orange
Property Owner Stat :	CA
Property Owner Zip Code:	92865
Property Owner Country:	United States
EPAID:	CAL000359034

HAZNET:

Name:	SA RECYCLING
Address:	8822 ETIWANDA AVE
Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Contact:	TESHA JOHNSON
Telephone:	7142836188
Mailing Name:	Not reported
Mailing Address:	2411 N GLASSELL
Year:	2017
Gepaid:	CAL000359034
TSD EPA ID:	CAT000646117
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	2.72
Year:	2017
Gepaid:	CAL000359034
TSD EPA ID:	CAT000646117
CA Waste Code:	611 - Contaminated soil from site clean-up
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	52.17
Year:	2017
Gepaid:	CAL000359034
TSD EPA ID:	CAT080013352
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	7.942
Year:	2017
Gepaid:	CAL000359034

SA RECYCLING (Continued) **S113160586**

TSD EPA ID: CAT080013352
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.396

Year: 2017
Gepaid: CAL000359034
TSD EPA ID: CAT080025711
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 2.66

Year: 2017
Gepaid: CAL000359034
TSD EPA ID: CAT080013352
CA Waste Code: 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.4587

Year: 2016
Gepaid: CAL000359034
TSD EPA ID: CAT080025711
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 5.928

Year: 2016
Gepaid: CAL000359034
TSD EPA ID: NVT330010000
CA Waste Code: 261 - Polychlorinated biphenyls and material containing PCBs
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.23142

Year: 2016
Gepaid: CAL000359034
TSD EPA ID: CAT080025711
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 3.99

Year: 2016
Gepaid: CAL000359034
TSD EPA ID: CAT080013352
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 14.478

SA RECYCLING (Continued) **S113160586**

Click this hyperlink while viewing on your computer to access
28 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2010
Gen EPA ID:	CAL000359034
Shipment Date:	20101230
Creation Date:	2/8/2012 8:33:49
Receipt Date:	20110107
Manifest ID:	008322133JJK
Trans EPA ID:	CAR000172189
Trans Name:	AMBERWICK CORPORATION
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.6265
Waste Quantity:	1253
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAL000359034
Shipment Date:	20131022
Creation Date:	12/4/2013 22:15:18
Receipt Date:	20131022
Manifest ID:	001975061GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.57
Waste Quantity:	150
Quantity Unit:	G

SA RECYCLING (Continued) **S113160586**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130806
Creation Date:	9/30/2013 22:15:16
Receipt Date:	20130806
Manifest ID:	001974872GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.064
Waste Quantity:	280
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130626
Creation Date:	8/29/2013 22:15:18
Receipt Date:	20130626
Manifest ID:	001974768GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.026
Waste Quantity:	270
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130621

SA RECYCLING (Continued) **S113160586**

Creation Date:	8/20/2013 22:15:09
Receipt Date:	20130621
Manifest ID:	001974762GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.315
Waste Quantity:	75
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130403
Creation Date:	6/9/2013 22:15:06
Receipt Date:	20130403
Manifest ID:	001974566GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.42
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130329
Creation Date:	6/10/2013 22:15:06
Receipt Date:	20130329
Manifest ID:	001974561GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

SA RECYCLING (Continued) **S113160586**

TSDF EPA ID: CAT080013352
Trans Name: DEMENNO KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 3.116
Waste Quantity: 820
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20130128
Creation Date: 6/19/2013 22:15:07
Receipt Date: 20130204
Manifest ID: 011024376JJK
Trans EPA ID: CAR000172189
Trans Name: AMBERWICK CORPORATION
Trans 2 EPA ID: CAD980585293
Trans 2 Name: INDUSTRIAL WASTE UTILIZATION
TSDF EPA ID: AZR000501510
Trans Name: AA SYDCOL LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.4
Waste Quantity: 800
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2014
Gen EPA ID: CAL000359034

Shipment Date: 20141110
Creation Date: 4/1/2015 22:15:06
Receipt Date: 20141117
Manifest ID: 013548376JJK
Trans EPA ID: CAR000172189
Trans Name: AMBERWICK CORPORATION
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY
TSDF Alt EPA ID: Not reported

SA RECYCLING (Continued) **S113160586**

TSDF Alt Name:	Not reported
Waste Code Description:	261 - Not reported
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.02755
Waste Quantity:	25
Quantity Unit:	K
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141110
Creation Date:	1/15/2015 22:14:55
Receipt Date:	20141112
Manifest ID:	013548377JJK
Trans EPA ID:	CAR000172189
Trans Name:	AMBERWICK CORPORATION
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D018
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.396
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141104
Creation Date:	6/26/2015 22:15:35
Receipt Date:	20141111
Manifest ID:	013548364JJK
Trans EPA ID:	CAR000172189
Trans Name:	AMBERWICK CORPORATION
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.25
Waste Quantity:	500

SA RECYCLING (Continued) **S113160586**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140723
Creation Date:	9/30/2014 22:15:08
Receipt Date:	20140724
Manifest ID:	002303132GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.064
Waste Quantity:	280
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140402
Creation Date:	8/19/2014 22:15:10
Receipt Date:	20140408
Manifest ID:	011004190JJK
Trans EPA ID:	CAR000172189
Trans Name:	AMBERWICK CORPORATION
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	1.8
Waste Quantity:	3600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SA RECYCLING (Continued) **S113160586**

Shipment Date:	20140320
Creation Date:	5/19/2014 22:14:53
Receipt Date:	20140320
Manifest ID:	002302804GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	2.394
Waste Quantity:	630
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAL000359034
Shipment Date:	20121213
Creation Date:	3/7/2013 22:15:18
Receipt Date:	20121214
Manifest ID:	001974323GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL CO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.532
Waste Quantity:	140
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121004
Creation Date:	12/20/2012 22:15:18
Receipt Date:	20121005

SA RECYCLING (Continued) **S113160586**

Manifest ID:	001682778GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.294
Waste Quantity:	70
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120917
Creation Date:	11/26/2012 22:16:15
Receipt Date:	20120918
Manifest ID:	001682733GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.121
Waste Quantity:	295
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120709
Creation Date:	10/15/2012 22:15:38
Receipt Date:	20120709
Manifest ID:	001682586GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SRV
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON

SA RECYCLING (Continued) **S113160586**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.646
Waste Quantity:	170
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120709
Creation Date:	10/15/2012 22:15:30
Receipt Date:	20120709
Manifest ID:	001682584GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SRV
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.378
Waste Quantity:	90
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120613
Creation Date:	10/3/2012 22:15:09
Receipt Date:	20120613
Manifest ID:	001682532GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SRV
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.504

SA RECYCLING (Continued) **S113160586**

Waste Quantity:	120
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120516
Creation Date:	5/29/2013 22:15:15
Receipt Date:	20120601
Manifest ID:	009699176JJK
Trans EPA ID:	CAR000172189
Trans Name:	AMBERWICK CORPORATION
Trans 2 EPA ID:	CAD980585293
Trans 2 Name:	INDUSTRIAL WASTE UTILIZATION INC
TSDF EPA ID:	AZR000501510
Trans Name:	AA SYDCOL LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120424
Creation Date:	6/27/2012 20:30:16
Receipt Date:	20120424
Manifest ID:	001682354GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DE MENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.912
Waste Quantity:	240
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SA RECYCLING (Continued) **S113160586**

Shipment Date:	20120312
Creation Date:	8/28/2012 22:15:13
Receipt Date:	20120320
Manifest ID:	009696653JJK
Trans EPA ID:	CAR000172189
Trans Name:	AMBERWICK CORPORATION
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	1.6
Waste Quantity:	3200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120302
Creation Date:	4/30/2012 20:30:14
Receipt Date:	20120302
Manifest ID:	001682268GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SRV
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	2.28
Waste Quantity:	600
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAL000359034

Shipment Date:	20150909
Creation Date:	11/6/2015 22:15:31
Receipt Date:	20150911

SA RECYCLING (Continued) **S113160586**

Manifest ID:	014282869JJK
Trans EPA ID:	CAR000172189
Trans Name:	AMBERWICK CORPORATION
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150909
Creation Date:	2/26/2016 22:15:15
Receipt Date:	20151001
Manifest ID:	014282870JJK
Trans EPA ID:	CAR000172189
Trans Name:	AMBERWICK CORPORATION
Trans 2 EPA ID:	CAD980585293
Trans 2 Name:	INDUSTRIAL WASTE UTILIZATION INC
TSDF EPA ID:	AZR000501510
Trans Name:	AA SYDCOL LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150710
Creation Date:	1/21/2016 22:15:55
Receipt Date:	20150727
Manifest ID:	014281815JJK
Trans EPA ID:	CAR000172189
Trans Name:	AMBERWICK CORPORATION
Trans 2 EPA ID:	CAD980585293
Trans 2 Name:	INDUSTRIAL WASTE UTILIZATION
TSDF EPA ID:	AZR000501510
Trans Name:	AA SYDCOL LLC

SA RECYCLING (Continued) **S113160586**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150316
Creation Date:	6/23/2015 22:15:22
Receipt Date:	20150316
Manifest ID:	002303078GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.882
Waste Quantity:	210
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150309
Creation Date:	5/19/2015 22:15:07
Receipt Date:	20150310
Manifest ID:	002670428GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.95

SA RECYCLING (Continued) **S113160586**

Waste Quantity:	250
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAL000359034
Shipment Date:	20111130
Creation Date:	3/12/2012 20:30:14
Receipt Date:	20111130
Manifest ID:	001682047GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DE MENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.292
Waste Quantity:	340
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111021
Creation Date:	1/6/2012 18:30:33
Receipt Date:	20111021
Manifest ID:	001532368GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DE MENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.596
Waste Quantity:	420
Quantity Unit:	G
Additional Code 1:	Not reported

SA RECYCLING (Continued) **S113160586**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111013
Creation Date:	12/27/2011 18:30:38
Receipt Date:	20111013
Manifest ID:	001532354GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DE MENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.924
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111003
Creation Date:	12/20/2011 18:30:31
Receipt Date:	20111003
Manifest ID:	001532327GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DE MENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	2.356
Waste Quantity:	620
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110919
Creation Date:	12/9/2011 18:30:58

SA RECYCLING (Continued) **S113160586**

Receipt Date:	20110919
Manifest ID:	001532298GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DE MENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	2.052
Waste Quantity:	540
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110901
Creation Date:	11/8/2011 18:30:28
Receipt Date:	20110901
Manifest ID:	001532263GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DE MENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.63
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110826
Creation Date:	2/11/2012 20:30:14
Receipt Date:	20110830
Manifest ID:	008285494JJK
Trans EPA ID:	CAR000172189
Trans Name:	AMBERWICK CORPORATION
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000

SA RECYCLING (Continued) **S113160586**

Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	261 - Not reported
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.24795
Waste Quantity:	225
Quantity Unit:	K
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110826
Creation Date:	2/11/2012 20:30:14
Receipt Date:	20110830
Manifest ID:	008285494JJK
Trans EPA ID:	CAR000172189
Trans Name:	AMBERWICK CORPORATION
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110824
Creation Date:	11/8/2011 18:30:12
Receipt Date:	20110824
Manifest ID:	001532239GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DE MENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect

SA RECYCLING (Continued) **S113160586**

Quantity Tons:	2.204
Waste Quantity:	580
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110722
Creation Date:	10/1/2011 18:30:31
Receipt Date:	20110722
Manifest ID:	001532177GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DE MENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	2.546
Waste Quantity:	670
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAL000359034
Shipment Date:	20170901
Creation Date:	5/21/2018 18:34:34
Receipt Date:	20170908
Manifest ID:	015222291JJK
Trans EPA ID:	CAR000181891
Trans Name:	BDC SPECIAL WASTE SERVICES
Trans 2 EPA ID:	CAR000045963
Trans 2 Name:	ARO TRUCKING
TSDF EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	611 - Contaminated soil from site clean-ups
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	25.38
Waste Quantity:	18
Quantity Unit:	Y

SA RECYCLING (Continued) **S113160586**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170901
Creation Date:	6/13/2018 18:31:27
Receipt Date:	20170907
Manifest ID:	015222281JJK
Trans EPA ID:	CAR000181891
Trans Name:	BDC SPECIAL WASTE SERVICES
Trans 2 EPA ID:	CAR000045963
Trans 2 Name:	ARO TRUCKING
TSDF EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	611 - Contaminated soil from site clean-ups
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	26.79
Waste Quantity:	19
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170821
Creation Date:	5/29/2018 18:30:43
Receipt Date:	20170824
Manifest ID:	017361081JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIROSERV
Trans 2 EPA ID:	CAD982030173
Trans 2 Name:	ECOLOGY CONTROL INDUSTRIES
TSDF EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.68
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170821

SA RECYCLING (Continued) **S113160586**

Creation Date:	5/29/2018 18:30:43
Receipt Date:	20170824
Manifest ID:	017361081JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIROSERV
Trans 2 EPA ID:	CAD982030173
Trans 2 Name:	ECOLOGY CONTROL INDUSTRIES
TSDF EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	2.04
Waste Quantity:	600
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170627
Creation Date:	5/17/2018 18:32:12
Receipt Date:	20170627
Manifest ID:	002934122GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	2.698
Waste Quantity:	710
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170418
Creation Date:	5/9/2018 18:32:31
Receipt Date:	20170418
Manifest ID:	003376538GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

SA RECYCLING (Continued) **S113160586**

TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	2.584
Waste Quantity:	680
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170228
Creation Date:	5/18/2017 18:31:53
Receipt Date:	20170228
Manifest ID:	002934979GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080025711
Trans Name:	ADVANCED ENVIRONMENTAL, INC.
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	2.66
Waste Quantity:	700
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170223
Creation Date:	5/19/2017 18:30:21
Receipt Date:	20170302
Manifest ID:	016609502JJK
Trans EPA ID:	CAR000172189
Trans Name:	AMBERWICK CORPORATION
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F001

SA RECYCLING (Continued) **S113160586**

Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170223
Creation Date:	5/19/2017 18:30:21
Receipt Date:	20170302
Manifest ID:	016609502JJK
Trans EPA ID:	CAR000172189
Trans Name:	AMBERWICK CORPORATION
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D018
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.396
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170117
Creation Date:	3/31/2017 18:30:27
Receipt Date:	20170117
Manifest ID:	002934914GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	2.66
Waste Quantity:	700
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

SA RECYCLING (Continued) **S113160586**

Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2015
Gen EPA ID: CAL000359034

Shipment Date: 20150909
Creation Date: 11/6/2015 22:15:31
Receipt Date: 20150911
Manifest ID: 014282869JJK
Trans EPA ID: CAR000172189
Trans Name: AMBERWICK CORPORATION
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO/KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code: F001
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.22935
Waste Quantity: 55
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20150909
Creation Date: 2/26/2016 22:15:15
Receipt Date: 20151001
Manifest ID: 014282870JJK
Trans EPA ID: CAR000172189
Trans Name: AMBERWICK CORPORATION
Trans 2 EPA ID: CAD980585293
Trans 2 Name: INDUSTRIAL WASTE UTILIZATION INC
TSDF EPA ID: AZR000501510
Trans Name: AA SYDCOL LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.25
Waste Quantity: 500
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

SA RECYCLING (Continued) **S113160586**

Shipment Date:	20150710
Creation Date:	1/21/2016 22:15:55
Receipt Date:	20150727
Manifest ID:	014281815JJK
Trans EPA ID:	CAR000172189
Trans Name:	AMBERWICK CORPORATION
Trans 2 EPA ID:	CAD980585293
Trans 2 Name:	INDUSTRIAL WASTE UTILIZATION
TSDF EPA ID:	AZR000501510
Trans Name:	AA SYDCOL LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150316
Creation Date:	6/23/2015 22:15:22
Receipt Date:	20150316
Manifest ID:	002303078GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.882
Waste Quantity:	210
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150309
Creation Date:	5/19/2015 22:15:07
Receipt Date:	20150310
Manifest ID:	002670428GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported

SA RECYCLING (Continued) **S113160586**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.95
Waste Quantity:	250
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CIWQS:

Name:	SA RECYCLING
Address:	8822 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Agency:	SA Recycling LLC 41
Agency Address:	3200 East Frontera Street, Anaheim, CA 92806
Place/Project Type:	Industrial - Scrap and Waste Materials
SIC/NAICS:	5093
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Region 8 - Scrap Metal Permit
Order Number:	R8-2012-0012
WDID:	8 36MR000005
NPDES Number:	CAG618001
Adoption Date:	Not reported
Effective Date:	05/10/2012
Termination Date:	09/26/2017
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	1
Violations within 5 years:	0
Latitude:	34.09167
Longitude:	-117.52306

HWTS:

Name:	SA RECYCLING
Address:	8822 ETIWANDA AVE
Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
EPA ID:	CAL000359034
Inactive Date:	06/30/2018
Create Date:	11/29/2010
Last Act Date:	11/06/2018
Mailing Name:	Not reported

SA RECYCLING (Continued) **S113160586**

Mailing Address:	2411 N GLASSELL
Mailing Address 2:	Not reported
Mailing City,State,Zip:	ORANGE, CA 928650000
Owner Name:	SA RECYCLING LLC
Owner Address:	2411 N GLASSELL STREET
Owner Address 2:	Not reported
Owner City,State,Zip:	ORANGE, CA 928650000
Contact Name:	TESHA JOHNSON
Contact Address:	2411 N. GLASSEL
Contact Address 2:	Not reported
City,State,Zip:	ORANGE, CA 92865

NAICS:

EPA ID:	CAL000359034
Create Date:	2010-11-29 12:59:45
NAICS Code:	42193
NAICS Description:	Recyclable Material Wholesalers
Issued EPA ID Date:	2010-11-29 12:59:45
Inactive Date:	2018-06-30 00:00:00
Facility Name:	SA RECYCLING
Facility Address:	8822 ETIWANDA AVE
Facility Address 2:	Not reported
Facility City:	RANCHO CUCAMONGA
Facility County:	36
Facility State:	CA
Facility Zip:	91739

D33 **BURNELL HYDROLICS** **RCRA-SQG 1004675774**
NE **8810 ETIWANDA AVE** **FINDS CAR000076950**
< 1/8 **RANCHO CUCAMONGA, CA 91739** **ECHO**
0.049 mi.
258 ft. **Site 6 of 8 in cluster D**

Relative:
Higher

Actual:
1128 ft.

RCRA-SQG:

Date form received by agency:	2000-07-03 00:00:00.0
Facility name:	BURNELL HYDROLICS
Facility address:	8810 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739-0417
EPA ID:	CAR000076950
Contact:	T J JONES
Contact address:	8810 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739-0417
Contact country:	US
Contact telephone:	909-899-1751
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	TERRANCE JONES
Owner/operator address:	8810 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739

BURNELL HYDROLICS (Continued) **1004675774**

Owner/operator country: Not reported
Owner/operator telephone: 909-899-1751
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

FINDS:
Registry ID: 110011914170

Click Here:

Environmental Interest/Information System:
NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

BURNELL HYDROLICS (Continued) **1004675774**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004675774
Registry ID:	110011914170
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110011914170
Name:	BERNELL HYDRAULICS INC
Address:	8810 ETIWANDA AVENUE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739

D34 **BERNELL HYDRAULICS INC** **RCRA NonGen / NLR** **1024830049**
NE **8810 ETIWANDA AVE** **CAL000364475**
< 1/8 **RANCHO CUCAMONGA, CA 91739**
0.049 mi.
258 ft. **Site 7 of 8 in cluster D**

Relative:
Higher

Actual:
1128 ft.

RCRA NonGen / NLR:

Date form received by agency:	2011-06-10 00:00:00.0
Facility name:	BERNELL HYDRAULICS INC
Facility address:	8810 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739-9662
EPA ID:	CAL000364475
Mailing address:	PO BOX 417 RANCHO CUCAMONGA, CA 91739-0000
Contact:	RHONDA GARNESS
Contact address:	8810 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739
Contact country:	Not reported
Contact telephone:	909-899-1751
Contact email:	RANCHO@BERNELLHYDRAULICS.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	RHONDA GARNESS
Owner/operator address:	8810 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739
Owner/operator country:	Not reported
Owner/operator telephone:	909-899-1751
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	RHONDA GARNESS
Owner/operator address:	8810 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739
Owner/operator country:	Not reported
Owner/operator telephone:	909-899-1751

BERNELL HYDRAULICS INC (Continued) **1024830049**

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

D35 **BERNELL HYDRAULICS, INC.** **AST** **S104764254**
NE **8810 ETIWANDA AVE** **CERS HAZ WASTE** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91739** **CERS TANKS**
0.049 mi. **CHMIRS**
258 ft. **Site 8 of 8 in cluster D** **NPDES**
San Bern. Co. Permit
Relative: Higher **WDS**
CIWQS
Actual: 1128 ft. **CERS**

AST:
Name: BERNELL HYDRAULICS, INC.
Address: 8810 ETIWANDA AVE
City/Zip: RANCHO CUCAMONGA,91739
Certified Unified Program Agencies: Not reported
Owner: GARNESS, RHONDA
Total Gallons: Not reported
CERSID: 10036258
Facility ID: FA0001427
Business Name: BERNELL HYDRAULICS, INC.
Phone: (909) 899-1751
Fax: (909) 899-3916
Mailing Address: 8810 ETIWANDA AVE
Mailing Address City: RANCHO CUCAMONGA
Mailing Address State: CA
Mailing Address Zip Code: 91739
Operator Name: Rhonda Garness
Operator Phone: 909-721-3545
Owner Phone: 909-721-3545
Owner Mail Address: P O BOX 417
Owner State: CA

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Owner Zip Code: Not reported
Owner Country: United States
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: CAL000364475

CERS HAZ WASTE:
Name: BERNELL HYDRAULICS, INC.
Address: 8810 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 11877
CERS ID: 10036258
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: BERNELL HYDRAULICS, INC.
Address: 8810 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 11877
CERS ID: 10036258
CERS Description: Aboveground Petroleum Storage

CHMIRS:
Name: Not reported
Address: 8810 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
OES Incident Number: 2-0970
OES notification: 02/20/2002
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	a dry channel
Spill Site:	Not reported
Cleanup By:	Responsible Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	San Bernardino Co. Fire
Incident Date:	2/20/200212:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Merchant/Business
E Date:	Not reported
Substance:	Used Oil
Gallons:	500
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Possibly employees were throwing used oil over the wall. Some of that oil went into a dry channel behind the wall. This case is under investigation.

NPDES:

Name:	BERNELL HYDRAULICS INC
Address:	8810 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility Status:	Active
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	213326
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 36I011575

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/26/1995
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	PO Box 417
Discharge Name:	Bernell Hydraulics Inc
Discharge City:	Rancho Cucamonga
Discharge State:	California
Discharge Zip:	91739
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213326
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I011575
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/26/1995
Status:	Active
Status Date:	04/26/1995
Place Size:	39204
Place Size Unit:	SqFt
Contact:	Rhonda Garness
Contact Title:	Not reported
Contact Phone:	909-899-1751
Contact Phone Ext:	Not reported
Contact Email:	rancho@bernellhydraulics.com
Operator Name:	Bernell Hydraulics Inc
Operator Address:	PO Box 417
Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91739
Operator Contact:	Rhonda Garness
Operator Contact Title:	Not reported
Operator Contact Phone:	909-899-1751

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Operator Contact Phone Ext:	Not reported
Operator Contact Email:	rancho@bernellhydraulics.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Ana River
Certifier:	John Clemons
Certifier Title:	C.O.O.
Certification Date:	18-JUN-15
Primary Sic:	3569-General Industrial Machinery and Equipment, NEC
Secondary Sic:	3593-Fluid Power Cylinders and Actuators
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213326
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I011575
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/26/1995
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Bernell Hydraulics Inc
Discharge Address:	PO Box 417
Discharge City:	Rancho Cucamonga
Discharge State:	California
Discharge Zip:	91739

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Name:	BERNELL HYDRAULICS INC
Address:	8810 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36I011575
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	04/26/1995
Operator Name:	Bernell Hydraulics Inc
Operator Address:	PO Box 417
Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91739

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213326
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I011575
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/26/1995
Status:	Active
Status Date:	04/26/1995
Place Size:	39204
Place Size Unit:	SqFt
Contact:	Rhonda Garness
Contact Title:	Not reported

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Contact Phone:	909-899-1751
Contact Phone Ext:	Not reported
Contact Email:	rancho@bernellhydraulics.com
Operator Name:	Bernell Hydraulics Inc
Operator Address:	PO Box 417
Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91739
Operator Contact:	Rhonda Garness
Operator Contact Title:	Not reported
Operator Contact Phone:	909-899-1751
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	rancho@bernellhydraulics.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Ana River
Certifier:	John Clemons
Certifier Title:	C.O.O.
Certification Date:	18-JUN-15
Primary Sic:	3569-General Industrial Machinery and Equipment, NEC
Secondary Sic:	3593-Fluid Power Cylinders and Actuators
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213326
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

WDID:	8 36I011575
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/26/1995
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Bernell Hydraulics Inc
Discharge Address:	PO Box 417
Discharge City:	Rancho Cucamonga
Discharge State:	California
Discharge Zip:	91739
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	BERNELL HYDRAULICS, INC.
Address:	8810 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0001427
Owner:	GARNESS, RHONDA
Permit Number:	PT0001609
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	09/30/2020

Name:	BERNELL HYDRAULICS, INC.
Address:	8810 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0001427
Owner:	GARNESS, RHONDA
Permit Number:	PT0001608
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	09/30/2020

Name:	BERNELL HYDRAULICS, INC.
Address:	8810 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0001427
Owner:	GARNESS, RHONDA
Permit Number:	PT0027558
Permit Category:	APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status:	ACTIVE
Expiration Date:	09/30/2020

Name:	BERNELL HYDRAULICS, INC.
Address:	8810 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0001427
Owner:	GARNESS, RHONDA
Permit Number:	PT0001619
Permit Category:	ABOVEGROUND PETROLEUM STORAGE (AST) (SPCC)
Facility Status:	INACTIVE
Expiration Date:	09/30/2010

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

WDS:

Name:	BERNELL HYDRAULICS
Address:	8810 ETIWANDA AVE
City:	RANCHO CUCAMONGA
Facility ID:	Santa Ana River 36I011575
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	9098991751
Facility Contact:	TERRY JONES
Agency Name:	JONES TERRY
Agency Address:	PO Box 417
Agency City,St,Zip:	Rancho Cucamonga 917390417
Agency Contact:	TERRY JONES
Agency Telephone:	9098991751
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Name:	BERNELL HYDRAULICS INC
Address:	8810 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Agency:	Bernell Hydraulics Inc
Agency Address:	PO Box 417, Rancho Cucamonga, CA 91739

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Place/Project Type:	Industrial - General Industrial Machinery and Equipment, NEC
SIC/NAICS:	3569(+)
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I011575
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/26/1995
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.09275
Longitude:	-117.52381

CERS:

Name:	BERNELL HYDRAULICS, INC.
Address:	8810 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Site ID:	11877
CERS ID:	209334
CERS Description:	Industrial Facility Storm Water

Violations:

Site ID:	11877
Site Name:	BERNELL HYDRAULICS, INC.
Violation Date:	01-28-2016
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes:	Returned to compliance on 05/19/2016.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	11877
Site Name:	BERNELL HYDRAULICS, INC.
Violation Date:	01-28-2016
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to prepare and implement a Spill Prevention Control and Countermeasure (SPCC) Plan .
Violation Notes:	Returned to compliance on 05/19/2016. SPCC not prepared or unavailable for review.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS

Site ID:	11877

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Site Name: BERNELL HYDRAULICS, INC.
Violation Date: 01-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/19/2016. Failure to obtain an EPA ID Number (CCR 66262.12(a)) EPA ID number not active.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Violation Date: 10-23-2018
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan.
Violation Notes: Returned to compliance on 11/15/2018. OBSERVATION: At time of inspection, an incomplete SPCC plan was made available for review. Elements of the SPCC plan were not filled out and missing the required information. CORRECTIVE ACTION: Submit a signed statement indicating that an SPCC plan has been prepared.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Violation Date: 01-28-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/28/2016. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) Label missing information.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Violation Date: 01-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/19/2016. Failure to maintain used oil disposal receipts for at least 3 years (CHSC 25160.2(b)(3)) Disposal records not available for review.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Violation Date: 07-01-2013
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Violation Notes: Failure to submit Annual Report for the reporting year 2012-2013 by July 1, 2013. Annual Report 2012-2013 1st Notice of Non-Compliance was sent out on July 31, 2013.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Violation Date: 01-28-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/28/2016. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Accumulation start date missing.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-15-2012
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: Staff performed inspection of the facility's south side perimeter during a light rain event to observe any run-off from the site. Site did not generate run-off during a 0.20in storm event for the area on this day (reported by the San Bernardino Flood Control District for this area). Staff would contact site's representative to notify the need for housekeeping along the south perimeter.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2018
Violations Found: No
Eval Type: Routine done by local agency

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE APSA INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Enforcement Action:
Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Site Address: 8810 ETIWANDA AVE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 01-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Site Address: 8810 ETIWANDA AVE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 01-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Enf Action Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Site Address: 8810 ETIWANDA AVE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 01-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Site Address: 8810 ETIWANDA AVE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 07-31-2013
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: Site has not submitted the 2012-2013 annual report by 07/01/2013. - 1st Notice of Non-Compliance sent on 07/31/2013, via certified mail to facility, CC to owner.
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS

Coordinates:
Site ID: 11877
Facility Name: BERNELL HYDRAULICS, INC.
Env Int Type Code: SMSWIND
Program ID: 209334
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 34.092750
Longitude: -117.523810

Affiliation:
Affiliation Type Desc: Operator
Entity Name: Rhonda Garness
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 721-3545

Affiliation Type Desc: Owner/Operator
Entity Name: Bernell Hydraulics Inc
Entity Title: Operator
Affiliation Address: PO Box 417
Affiliation City: Rancho Cucamonga

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Rhonda Garness
Entity Title:	Not reported
Affiliation Address:	8810 ETIWANDA AVE
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739
Affiliation Phone:	(909) 899-1751
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Environmental Contact
Entity Name:	William White
Entity Title:	Not reported
Affiliation Address:	8810 ETIWANDA AVE
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Rhonda Garness
Entity Title:	CEO
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	GARNESS, RHONDA
Entity Title:	Not reported
Affiliation Address:	P O BOX 417
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739-9173
Affiliation Phone:	(909) 721-3545
Affiliation Type Desc:	Parent Corporation
Entity Name:	BERNELL HYDRAULICS, INC.

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Sandy Kinnee
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 8810 ETIWANDA AVE
Affiliation City: RANCHO CUCAMONGA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91739
Affiliation Phone: Not reported

Name: BERNELL HYDRAULICS, INC.
Address: 8810 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 11877
CERS ID: 10036258
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Violation Date: 01-28-2016
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 05/19/2016.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Violation Date: 01-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to prepare and implement a Spill Prevention Control and Countermeasure (SPCC) Plan .
Violation Notes: Returned to compliance on 05/19/2016. SPCC not prepared or unavailable for review.

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Violation Date: 01-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/19/2016. Failure to obtain an EPA ID Number (CCR 66262.12(a)) EPA ID number not active.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Violation Date: 10-23-2018
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan.
Violation Notes: Returned to compliance on 11/15/2018. OBSERVATION: At time of inspection, an incomplete SPCC plan was made available for review. Elements of the SPCC plan were not filled out and missing the required information. CORRECTIVE ACTION: Submit a signed statement indicating that an SPCC plan has been prepared.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Violation Date: 01-28-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/28/2016. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) Label missing information.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Violation Date: 01-28-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/19/2016. Failure to maintain used oil disposal receipts for at least 3 years (CHSC 25160.2(b)(3)) Disposal records not available for review.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Violation Date: 07-01-2013
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit Annual Report for the reporting year 2012-2013 by July 1, 2013. Annual Report 2012-2013 1st Notice of Non-Compliance was sent out on July 31, 2013.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Violation Date: 01-28-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/28/2016. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Accumulation start date missing.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-15-2012
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: Staff performed inspection of the facility’s south side perimeter during a light rain event to observe any run-off from the site. Site did not generate run-off during a 0.20in storm event for the area on this day (reported by the San Bernardino Flood Control District for this area). Staff would contact site’s representative to notify the need for housekeeping along the south perimeter.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE APSA INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Enforcement Action:
Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Site Address: 8810 ETIWANDA AVE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 01-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Site Address: 8810 ETIWANDA AVE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 01-28-2016
Enf Action Type: Notice of Violation (Unified Program)

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Site Address: 8810 ETIWANDA AVE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 01-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 11877
Site Name: BERNELL HYDRAULICS, INC.
Site Address: 8810 ETIWANDA AVE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 07-31-2013
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: Site has not submitted the 2012-2013 annual report by 07/01/2013. - 1st Notice of Non-Compliance sent on 07/31/2013, via certified mail to facility, CC to owner.
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS

Coordinates:
Site ID: 11877
Facility Name: BERNELL HYDRAULICS, INC.
Env Int Type Code: SMSWIND
Program ID: 209334
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 34.092750
Longitude: -117.523810

Affiliation:
Affiliation Type Desc: Operator
Entity Name: Rhonda Garness
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 721-3545

Affiliation Type Desc: Owner/Operator

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Entity Name:	Bernell Hydraulics Inc
Entity Title:	Operator
Affiliation Address:	PO Box 417
Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Rhonda Garness
Entity Title:	Not reported
Affiliation Address:	8810 ETIWANDA AVE
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739
Affiliation Phone:	(909) 899-1751
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Environmental Contact
Entity Name:	William White
Entity Title:	Not reported
Affiliation Address:	8810 ETIWANDA AVE
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Rhonda Garness
Entity Title:	CEO
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	GARNESS, RHONDA
Entity Title:	Not reported
Affiliation Address:	P O BOX 417
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739-9173

BERNELL HYDRAULICS, INC. (Continued) **S104764254**

Affiliation Phone:	(909) 721-3545
Affiliation Type Desc:	Parent Corporation
Entity Name:	BERNELL HYDRAULICS, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Sandy Kinnee
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	8810 ETIWANDA AVE
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported

E36 **ALL STATE RECYCLING** **CPS-SLIC** **S109435189**
East **8949 ETIWANDA AVENUE** **CERS** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91739**
0.073 mi.
385 ft. **Site 1 of 2 in cluster E**

Relative: **Lower**

Actual: **1111 ft.**

CPS-SLIC:

Name:	ALL STATE RECYCLING
Address:	8949 ETIWANDA AVENUE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	06/28/2013
Global Id:	T10000004163
Lead Agency:	SAN BERNARDINO COUNTY
Lead Agency Case Number:	RO0001337V
Latitude:	34.090844
Longitude:	-117.522725
Case Type:	Cleanup Program Site
Case Worker:	CB
Local Agency:	SAN BERNARDINO COUNTY
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Lead

ALL STATE RECYCLING (Continued) **S109435189**

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

CERS:
Name: ALL STATE RECYCLING
Address: 8949 ETIWANDA AVENUE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 212328
CERS ID: T10000004163
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: CURTIS BRUNDAGE - SAN BERNARDINO COUNTY
Entity Title: Not reported
Affiliation Address: 620 S. E STREET
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

E37 **SOUTHERN CALIFORNIA EDISON** **RCRA NonGen / NLR** **1025881405**
East **8949 ETIWANDA AVE** **CAP000230714**
< 1/8 **ETIWANDA, CA 91739**
0.073 mi.
385 ft. **Site 2 of 2 in cluster E**

Relative: **Lower**
Actual: **1111 ft.**

RCRA NonGen / NLR:
Date form received by agency: 2013-01-21 00:00:00.0
Facility name: SOUTHERN CALIFORNIA EDISON
Facility address: 8949 ETIWANDA AVE
ETIWANDA, CA 91739
EPA ID: CAP000230714
Mailing address: PO BOX 800
ROSEMEAD, CA 91770
Contact: SARA DUVALL
Contact address: PO BOX 800
ROSEMEAD, CA 91770
Contact country: US
Contact telephone: 626-462-8714
Contact email: SARA.DUVALL@SCE.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: SOUTHERN CALIFORNIA EDISON
Owner/operator address: PO BOX 800
ROSEMEAD, CA 91770
Owner/operator country: US
Owner/operator telephone: 626-302-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported

SOUTHERN CALIFORNIA EDISON (Continued) **1025881405**

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 1975-01-01 00:00:00.
Owner/Op end date: Not reported

Owner/operator name: SOUTHERN CALIFORNIA EDISON
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 1975-01-01 00:00:00.
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 2012-10-22 00:00:00.0
Site name: SOUTHERN CALIFORNIA EDISON
Classification: Large Quantity Generator

Hazardous Waste Summary:

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

F38 **BERNELL HYDRAULICS INC** **RCRA-SQG** **1001967580**
ENE **8821 ETIWANDA AVE** **FINDS** **CAR000070748**
< 1/8 **RANCHO CUCAMONGA, CA 91739** **ECHO**
0.077 mi. **HAZNET**
409 ft. **Site 1 of 3 in cluster F** **HWTS**

Relative: Higher

Actual: 1124 ft.

RCRA-SQG:

Date form received by agency:	2000-04-17 00:00:00.0
Facility name:	BERNELL HYDRAULICS INC
Facility address:	8821 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739-0417
EPA ID:	CAR000070748
Mailing address:	P O BOX 417 RANCHO CUCAMONGA, CA 91739-0417
Contact:	T J JONES
Contact address:	8810 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739-0417
Contact country:	US
Contact telephone:	909-899-1751
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	TERRANCE B JONES
Owner/operator address:	8810 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739
Owner/operator country:	Not reported
Owner/operator telephone:	909-899-1751
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

BERNELL HYDRAULICS INC (Continued) **1001967580**

Hazardous Waste Summary:

. Waste code: D000
. Waste name: Not Defined

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

FINDS:
Registry ID: 110002935450

Click Here:

Environmental Interest/Information System:
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1001967580
Registry ID:	110002935450
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002935450
Name:	BERNELL HYDRAULICS INC
Address:	8821 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739

HAZNET:

Name:	BERNELL HYDRAULICS INC
Address:	8821 ETIWANDA AVE
Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 917390417
Contact:	RHONDA GARNESS
Telephone:	9098991751
Mailing Name:	Not reported
Mailing Address:	8810 Etiwanda Ave
Year:	2005
Gepaid:	CAR000070748
TSD EPA ID:	CAT000613927
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H01 - Transfer Station
Tons:	1.617
Year:	2004
Gepaid:	CAR000070748

BERNELL HYDRAULICS INC (Continued) **1001967580**

TSD EPA ID: CAT000613927
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H01 - Transfer Station
Tons: 3.255

Year: 2003
Gepaid: CAR000070748
TSD EPA ID: CAT000613927
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H01 - Transfer Station
Tons: 2.9316

Year: 2002
Gepaid: CAR000070748
TSD EPA ID: CAT000613927
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H01 - Transfer Station
Tons: 1.407

Year: 2001
Gepaid: CAR000070748
TSD EPA ID: CAT000613927
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H01 - Transfer Station
Tons: 0.252

Year: 2000
Gepaid: CAR000070748
TSD EPA ID: CAT000613927
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H01 - Transfer Station
Tons: 1.3944

Additional Info:
Year: 2000
Gen EPA ID: CAR000070748

Shipment Date: 20001120
Creation Date: 1/12/2001 0:00:00
Receipt Date: 20001120
Manifest ID: 20290721
Trans EPA ID: SCR000075150
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT000613927
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: D039

BERNELL HYDRAULICS INC (Continued) **1001967580**

Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0756
Waste Quantity:	18
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001115
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001115
Manifest ID:	20286786
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2772
Waste Quantity:	66
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000922
Creation Date:	12/8/2000 0:00:00
Receipt Date:	20000922
Manifest ID:	20023566
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.3738
Waste Quantity:	89
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

BERNELL HYDRAULICS INC (Continued) **1001967580**

Shipment Date:	20000830
Creation Date:	12/8/2000 0:00:00
Receipt Date:	20000830
Manifest ID:	20026876
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1134
Waste Quantity:	27
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000724
Creation Date:	9/11/2000 0:00:00
Receipt Date:	20000724
Manifest ID:	20193151
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.5544
Waste Quantity:	132
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAR000070748

Shipment Date:	20010625
Creation Date:	8/29/2001 0:00:00
Receipt Date:	20010626
Manifest ID:	21132590
Trans EPA ID:	SCR000075150

BERNELL HYDRAULICS INC (Continued) **1001967580**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.252
Waste Quantity:	60
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAR000070748
Shipment Date:	20021111
Creation Date:	2/13/2003 18:31:35
Receipt Date:	20021111
Manifest ID:	21939197
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.42
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020723
Creation Date:	1/21/2003 18:31:48
Receipt Date:	20020723
Manifest ID:	21743379
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported

BERNELL HYDRAULICS INC (Continued) **1001967580**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.525
Waste Quantity:	125
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020531
Creation Date:	1/14/2003 18:31:21
Receipt Date:	20020531
Manifest ID:	21594961
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.462
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2003
Gen EPA ID:	CAR000070748
Shipment Date:	20031120
Creation Date:	8/5/2004 10:14:17
Receipt Date:	20031120
Manifest ID:	23302071
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station

BERNELL HYDRAULICS INC (Continued) **1001967580**

Quantity Tons:	0.42
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030929
Creation Date:	7/13/2004 10:48:19
Receipt Date:	20030929
Manifest ID:	22519252
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.525
Waste Quantity:	125
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030805
Creation Date:	7/26/2004 18:30:41
Receipt Date:	20030805
Manifest ID:	22875626
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.42
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

BERNELL HYDRAULICS INC (Continued) **1001967580**

Shipment Date:	20030609
Creation Date:	6/23/2004 10:00:42
Receipt Date:	20030609
Manifest ID:	22370978
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.525
Waste Quantity:	125
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030416
Creation Date:	7/12/2003 18:31:23
Receipt Date:	20030416
Manifest ID:	22442985
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.5166
Waste Quantity:	123
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030221
Creation Date:	5/18/2003 14:32:26
Receipt Date:	20030221
Manifest ID:	22431325
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927

BERNELL HYDRAULICS INC (Continued) **1001967580**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.525
Waste Quantity:	125
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAR000070748
Shipment Date:	20050623
Creation Date:	9/15/2005 18:32:02
Receipt Date:	20050623
Manifest ID:	24500721
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.147
Waste Quantity:	35
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050425
Creation Date:	7/20/2005 18:30:55
Receipt Date:	20050425
Manifest ID:	24492484
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported

BERNELL HYDRAULICS INC (Continued) **1001967580**

Meth Code:	H01 - Transfer Station
Quantity Tons:	0.42
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050302
Creation Date:	4/29/2005 11:28:07
Receipt Date:	20050302
Manifest ID:	23662469
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.63
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050113
Creation Date:	3/17/2005 18:34:39
Receipt Date:	20050113
Manifest ID:	23656930
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.42
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

BERNELL HYDRAULICS INC (Continued) **1001967580**

Additional Info:

Year:	2004
Gen EPA ID:	CAR000070748
Shipment Date:	20041117
Creation Date:	1/14/2005 10:18:48
Receipt Date:	20041117
Manifest ID:	23727143
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.336
Waste Quantity:	80
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040928
Creation Date:	3/16/2007 18:31:12
Receipt Date:	20040929
Manifest ID:	23714117
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.525
Waste Quantity:	125
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040805
Creation Date:	11/5/2004 18:32:00
Receipt Date:	20040806
Manifest ID:	23514302
Trans EPA ID:	TXR000050930

BERNELL HYDRAULICS INC (Continued) **1001967580**

Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.504
Waste Quantity:	120
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040616
Creation Date:	10/15/2004 15:16:06
Receipt Date:	20040617
Manifest ID:	23505829
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.42
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040420
Creation Date:	10/14/2004 7:49:48
Receipt Date:	20040420
Manifest ID:	23476636
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported

BERNELL HYDRAULICS INC (Continued) **1001967580**

Meth Code:	H01 - Transfer Station
Quantity Tons:	0.525
Waste Quantity:	125
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040301
Creation Date:	8/20/2004 9:49:45
Receipt Date:	20040302
Manifest ID:	23465407
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.42
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040113
Creation Date:	8/12/2004 8:09:46
Receipt Date:	20040114
Manifest ID:	22582886
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.525
Waste Quantity:	125
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

BERNELL HYDRAULICS INC (Continued) **1001967580**

HWTS:

Name:	BERNELL HYDRAULICS INC
Address:	8821 ETIWANDA AVE
Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 917390417
EPA ID:	CAR000070748
Inactive Date:	06/30/2009
Create Date:	03/06/2003
Last Act Date:	03/24/2011
Mailing Name:	Not reported
Mailing Address:	8810 Etiwanda Ave
Mailing Address 2:	Not reported
Mailing City,State,Zip:	Rancho Cucamonga, CA 917390417
Owner Name:	Terrance B Jones
Owner Address:	8810 Etiwanda Ave
Owner Address 2:	Not reported
Owner City,State,Zip:	Rancho Cucamonga, CA 917390417
Contact Name:	RHONDA GARNESS
Contact Address:	8810 Etiwanda Ave
Contact Address 2:	Not reported
City,State,Zip:	Rancho Cucamonga, CA 917390417

NAICS:

EPA ID:	CAR000070748
Create Date:	2003-10-23 13:13:52
NAICS Code:	42193
NAICS Description:	Recyclable Material Wholesalers
Issued EPA ID Date:	2003-03-06 15:09:14
Inactive Date:	2009-06-30 00:00:00
Facility Name:	Bernell Hydraulics Inc
Facility Address:	8821 Etiwanda Ave
Facility Address 2:	Not reported
Facility City:	Rancho Cucamonga
Facility County:	36
Facility State:	CA
Facility Zip:	917390417

F39 **YAQUIS TRUCK REPAIR** **RCRA NonGen / NLR** **1024862816**
ENE **8821 ETIWANDA AVE** **CAL000431340**
< 1/8 **RANCHO CUCAMONGA, CA 91739**
0.077 mi.
409 ft. **Site 2 of 3 in cluster F**

Relative:
Higher

Actual:
1124 ft.

RCRA NonGen / NLR:

Date form received by agency:	2017-10-09 00:00:00.0
Facility name:	YAQUIS TRUCK REPAIR
Facility address:	8821 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739
EPA ID:	CAL000431340
Contact:	IRINEO MOSQUEDA
Contact address:	9533 MARCONA AVE FONTANA, CA 92335
Contact country:	Not reported
Contact telephone:	909-827-0723
Contact email:	Not reported
EPA Region:	09
Classification:	Non-Generator

YAQUIS TRUCK REPAIR (Continued) **1024862816**

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	IRINEO MOSQUEDA
Owner/operator address:	9533 MARCONA AVE FONTANA, CA 92335
Owner/operator country:	Not reported
Owner/operator telephone:	909-827-0723
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	IRINEO MOSQUEDA
Owner/operator address:	9533 MARCONA AVE FONTANA, CA 92335
Owner/operator country:	Not reported
Owner/operator telephone:	909-827-0723
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

F40 **A G TRANSPORT** **San Bern. Co. Permit** **S108240185**
ENE **8821 ETIWANDA** **N/A**
< 1/8 **RANCHO CUCAMONGA, CA 91739**
0.077 mi.
409 ft. **Site 3 of 3 in cluster F**

Relative: **Higher**

Actual: **1124 ft.**

San Bern. Co. Permit:

Name:	A G TRANSPORT
Address:	8821 ETIWANDA
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0010759
Owner:	CONTENERO, DANIEL
Permit Number:	PT0018476
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	01/31/2009

Name:	A G TRANSPORT
Address:	8821 ETIWANDA
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0010759
Owner:	CONTENERO, DANIEL
Permit Number:	PT0018475
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	01/31/2009

Name:	PRECISION TOOL WORKS
Address:	8821 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0005397
Owner:	STRACK, JAY
Permit Number:	PT0007280
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
Facility Status:	INACTIVE
Expiration Date:	12/31/2007

Name:	CJM TRUCKING COMPANY
Address:	8821 ETIWANDA
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0002212
Owner:	CJM TRUCKING COMPANY
Permit Number:	PT0009805
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	11/30/2007

Name:	CJM TRUCKING COMPANY
Address:	8821 ETIWANDA
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0002212
Owner:	CJM TRUCKING COMPANY
Permit Number:	PT0009804
Permit Category:	SPECIAL GENERATOR

A G TRANSPORT (Continued) **S108240185**

Facility Status: INACTIVE
Expiration Date: 11/30/2007

G41 **KAISER STEEL CORP** **CA FID UST** **S101619268**
SSE **9400 ETIWANDA AVE** **N/A**
1/8-1/4 **FONTANA, CA 92335**
0.135 mi.
715 ft. **Site 1 of 3 in cluster G**

Relative: **Lower**

Actual: **1095 ft.**

CA FID UST:

Facility ID:	36008211
Regulated By:	UTNKI
Regulated ID:	00036265
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	P O BOX
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FONTANA 92335
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

G42 **KAISER STEEL CORPORATION** **SWEEPS UST** **S101591386**
SSE **9401 ETIWANDA AVE** **CA FID UST** **N/A**
1/8-1/4 **FONTANA, CA 92335**
0.135 mi.
715 ft. **Site 2 of 3 in cluster G**

Relative: **Lower**

Actual: **1095 ft.**

SWEEPS UST:

Name:	KAISER STEEL CORPORATION
Address:	9401 ETIWANDA AVE
City:	FONTANA
Status:	Not reported
Comp Number:	43365
Number:	Not reported
Board Of Equalization:	44-021032
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-043365-000005
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	20

Name: KAISER STEEL CORPORATION

KAISER STEEL CORPORATION (Continued) **S101591386**

Address:	9401 ETIWANDA AVE
City:	FONTANA
Status:	Not reported
Comp Number:	43365
Number:	Not reported
Board Of Equalization:	44-021032
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-043365-000006
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	EMPTY
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Name:	KAISER STEEL CORPORATION
Address:	9401 ETIWANDA AVE
City:	FONTANA
Status:	Not reported
Comp Number:	43365
Number:	Not reported
Board Of Equalization:	44-021032
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-043365-000007
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	EMPTY
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Name:	KAISER STEEL CORPORATION
Address:	9401 ETIWANDA AVE
City:	FONTANA
Status:	Not reported
Comp Number:	43365
Number:	Not reported
Board Of Equalization:	44-021032
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-043365-000008
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	EMPTY
STG:	PRODUCT
Content:	Not reported

KAISER STEEL CORPORATION (Continued) **S101591386**

Number Of Tanks: Not reported

Name: KAISER STEEL CORPORATION
Address: 9401 ETIWANDA AVE
City: FONTANA
Status: Not reported
Comp Number: 43365
Number: Not reported
Board Of Equalization: 44-021032
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-043365-000009
Tank Status: Not reported
Capacity: 20000
Active Date: Not reported
Tank Use: EMPTY
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: KAISER STEEL CORPORATION
Address: 9401 ETIWANDA AVE
City: FONTANA
Status: Not reported
Comp Number: 43365
Number: Not reported
Board Of Equalization: 44-021032
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-043365-000010
Tank Status: Not reported
Capacity: 20000
Active Date: Not reported
Tank Use: EMPTY
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: KAISER STEEL CORPORATION
Address: 9401 ETIWANDA AVE
City: FONTANA
Status: Not reported
Comp Number: 43365
Number: Not reported
Board Of Equalization: 44-021032
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-043365-000011
Tank Status: Not reported
Capacity: 20000
Active Date: Not reported

KAISER STEEL CORPORATION (Continued) **S101591386**

Tank Use: EMPTY
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: KAISER STEEL CORPORATION
Address: 9401 ETIWANDA AVE
City: FONTANA
Status: Not reported
Comp Number: 43365
Number: Not reported
Board Of Equalization: 44-021032
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-043365-000012
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: EMPTY
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: KAISER STEEL CORPORATION
Address: 9401 ETIWANDA AVE
City: FONTANA
Status: Not reported
Comp Number: 43365
Number: Not reported
Board Of Equalization: 44-021032
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-043365-000013
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: EMPTY
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: KAISER STEEL CORPORATION
Address: 9401 ETIWANDA AVE
City: FONTANA
Status: Not reported
Comp Number: 43365
Number: Not reported
Board Of Equalization: 44-021032
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-043365-000014

KAISER STEEL CORPORATION (Continued) **S101591386**

Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: EMPTY
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: KAISER STEEL CORPORATION
Address: 9401 ETIWANDA AVE
City: FONTANA
Status: Not reported
Comp Number: 43365
Number: Not reported
Board Of Equalization: 44-021032
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-043365-000015
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: EMPTY
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: KAISER STEEL CORPORATION
Address: 9401 ETIWANDA AVE
City: FONTANA
Status: Not reported
Comp Number: 43365
Number: Not reported
Board Of Equalization: 44-021032
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-043365-000016
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: EMPTY
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: KAISER STEEL CORPORATION
Address: 9401 ETIWANDA AVE
City: FONTANA
Status: Not reported
Comp Number: 43365
Number: Not reported
Board Of Equalization: 44-021032
Referral Date: Not reported
Action Date: Not reported

KAISER STEEL CORPORATION (Continued) **S101591386**

Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-043365-000017
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	EMPTY
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Name:	KAISER STEEL CORPORATION
Address:	9401 ETIWANDA AVE
City:	FONTANA
Status:	Not reported
Comp Number:	43365
Number:	Not reported
Board Of Equalization:	44-021032
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-043365-000018
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	EMPTY
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Name:	KAISER STEEL CORPORATION
Address:	9401 ETIWANDA AVE
City:	FONTANA
Status:	Not reported
Comp Number:	43365
Number:	Not reported
Board Of Equalization:	44-021032
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-043365-000019
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	EMPTY
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Name:	KAISER STEEL CORPORATION
Address:	9401 ETIWANDA AVE
City:	FONTANA
Status:	Not reported
Comp Number:	43365
Number:	Not reported

KAISER STEEL CORPORATION (Continued) **S101591386**

Board Of Equalization: 44-021032
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-043365-000020
Tank Status: Not reported
Capacity: 20000
Active Date: Not reported
Tank Use: EMPTY
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: KAISER STEEL CORPORATION
Address: 9401 ETIWANDA AVE
City: FONTANA
Status: Not reported
Comp Number: 43365
Number: Not reported
Board Of Equalization: 44-021032
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-043365-000021
Tank Status: Not reported
Capacity: 20000
Active Date: Not reported
Tank Use: EMPTY
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: KAISER STEEL CORPORATION
Address: 9401 ETIWANDA AVE
City: FONTANA
Status: Not reported
Comp Number: 43365
Number: Not reported
Board Of Equalization: 44-021032
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-043365-000022
Tank Status: Not reported
Capacity: 20000
Active Date: Not reported
Tank Use: EMPTY
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: KAISER STEEL CORPORATION
Address: 9401 ETIWANDA AVE
City: FONTANA

KAISER STEEL CORPORATION (Continued) **S101591386**

Status: Not reported
Comp Number: 43365
Number: Not reported
Board Of Equalization: 44-021032
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-043365-000023
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported
Tank Use: EMPTY
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: KAISER STEEL CORPORATION
Address: 9401 ETIWANDA AVE
City: FONTANA
Status: Not reported
Comp Number: 43365
Number: Not reported
Board Of Equalization: 44-021032
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-043365-000024
Tank Status: Not reported
Capacity: 1
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 36006046
Regulated By: UTNKI
Regulated ID: CAD082749
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7143577200
Mail To: Not reported
Mailing Address: 8300 UTICAY AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: FONTANA 92335
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

G43 **NEXTEL COMMUNICATIONS, INC** **San Bern. Co. Permit** **S106718437**
SSE **ETIWANDA AVE & 6TH ST** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91739**
0.136 mi.
716 ft. **Site 3 of 3 in cluster G**

Relative:
Lower

Actual:
1095 ft.

San Bern. Co. Permit:

Name:	NEXTEL COMMUNICATIONS, INC
Address:	ETIWANDA AVE & 6TH ST
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0009364
Owner:	Sprint
Permit Number:	PT0016031
Permit Category:	HAZMAT HANDLER - UNSTAFFED REMOTE FACILITY
Facility Status:	INACTIVE
Expiration Date:	12/31/2005

H44 **INLAND EMPIRE UTIL AGCY - RP-4** **RCRA NonGen / NLR** **1024796744**
SSE **12811 6TH ST** **CAL000179044**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730**
0.149 mi.
786 ft. **Site 1 of 3 in cluster H**

Relative:
Lower

Actual:
1095 ft.

RCRA NonGen / NLR:

Date form received by agency:	1997-03-11 00:00:00.0
Facility name:	INLAND EMPIRE UTIL AGCY - RP-4
Facility address:	12811 6TH ST RANCHO CUCAMONGA, CA 91730-0000
EPA ID:	CAL000179044
Mailing address:	PO BOX 9020 CHINO HILLS, CA 91709-0902
Contact:	CHARLIE L BATONGMALAQUE
Contact address:	6075 KIMBALL AVENUE CHINO, CA 91708
Contact country:	Not reported
Contact telephone:	909-993-1883
Contact email:	CBATON@IEUA.ORG
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	INLAND EMPIRE UTILITY AGENCY
Owner/operator address:	6075 KIMBALL AVENUE CHINO, CA 91708
Owner/operator country:	Not reported
Owner/operator telephone:	909-993-1883
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	CHARLIE L BATONGMALAQUE
Owner/operator address:	6075 KIMBALL AVENUE CHINO, CA 91708

INLAND EMPIRE UTIL AGCY - RP-4 (Continued) **1024796744**

Owner/operator country:	Not reported
Owner/operator telephone:	909-993-1883
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

H45 **IEUA REGIONAL PLANT #4** **AST** **S106175552**
SSE **12811 6TH ST** **CERS HAZ WASTE** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91729** **CERS TANKS**
0.149 mi. **CHMIRS**
786 ft. **Site 2 of 3 in cluster H** **San Bern. Co. Permit**
CERS

Relative:
Lower

Actual:
1095 ft.

AST:

Name:	IEUA REGIONAL PLANT #4
Address:	12811 6TH ST
City/Zip:	RANCHO CUCAMONGA,91729
Certified Unified Program Agencies:	Not reported
Owner:	INLAND EMPIRE UTILITIES AGENCY
Total Gallons:	Not reported
CERSID:	10040521
Facility ID:	FA0003902
Business Name:	IEUA
Phone:	(909) 993-1600
Fax:	(909) 993-900
Mailing Address:	12811 6TH ST
Mailing Address City:	RANCHO CUCAMONGA
Mailing Address State:	CA
Mailing Address Zip Code:	91729
Operator Name:	MATTHEW MELENDREZ
Operator Phone:	(909) 993-1451
Owner Phone:	(909) 993-1600
Owner Mail Address:	PO BOX 9020
Owner State:	CA
Owner Zip Code:	91709

IEUA REGIONAL PLANT #4 (Continued) **S106175552**

Owner Country: United States
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: CAL000179044

CERS HAZ WASTE:
Name: IEUA REGIONAL PLANT #4
Address: 12811 6TH ST
City,State,Zip: RANCHO CUCAMONGA, CA 91729
Site ID: 37713
CERS ID: 10040521
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: IEUA REGIONAL PLANT #4
Address: 12811 6TH ST
City,State,Zip: RANCHO CUCAMONGA, CA 91729
Site ID: 37713
CERS ID: 10040521
CERS Description: Aboveground Petroleum Storage

CHMIRS:
Name: Not reported
Address: 12811 6TH STREET
City,State,Zip: RANCHO CUCAMONGA, CA 91729
OES Incident Number: 12-2285
OES notification: 04/17/2012
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported

IEUA REGIONAL PLANT #4 (Continued) **S106175552**

Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Treatment/Sewage Facility
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1330
Year:	2012
Agency:	Inland Empire Utility Agency
Incident Date:	4/17/2012
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Sodium Hypochloride 12%
Quantity Released:	50
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The leak was discovered during rounds at the facility. The substance was leaking from an underground pipe. The caller advised that 5 gallons has seeped to the surface.

San Bern. Co. Permit:

Name:	IEUA REGIONAL PLANT #4
Address:	12811 6TH ST
City,State,Zip:	RANCHO CUCAMONGA, CA 91729
Region:	SAN BERNARDINO
Facility ID:	FA0003902
Owner:	INLAND EMPIRE UTILITIES AGENCY
Permit Number:	PT0024333
Permit Category:	APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status:	ACTIVE
Expiration Date:	09/30/2020

Name: IEUA REGIONAL PLANT #4

IEUA REGIONAL PLANT #4 (Continued) **S106175552**

Address: 12811 6TH ST
City,State,Zip: RANCHO CUCAMONGA, CA 91729
Region: SAN BERNARDINO
Facility ID: FA0003902
Owner: INLAND EMPIRE UTILITIES AGENCY
Permit Number: PT0009238
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 09/30/2020

Name: IEUA REGIONAL PLANT #4
Address: 12811 6TH ST
City,State,Zip: RANCHO CUCAMONGA, CA 91729
Region: SAN BERNARDINO
Facility ID: FA0003902
Owner: INLAND EMPIRE UTILITIES AGENCY
Permit Number: PT0027935
Permit Category: LARGE QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2020

Name: IEUA REGIONAL PLANT #4
Address: 12811 6TH ST
City,State,Zip: RANCHO CUCAMONGA, CA 91729
Region: SAN BERNARDINO
Facility ID: FA0003902
Owner: INLAND EMPIRE UTILITIES AGENCY
Permit Number: PT0010749
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 09/30/2005

CERS:
Name: IEUA REGIONAL PLANT #4
Address: 12811 6TH ST
City,State,Zip: RANCHO CUCAMONGA, CA 91729
Site ID: 37713
CERS ID: 10040521
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 37713
Site Name: IEUA REGIONAL PLANT #4
Violation Date: 09-28-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 10/11/2017. Observed facility added (1) ~2,400 gallon double walled tank of bleach and (2) ~275 gallon totes of bleach. Update the inventory with the increased amount of bleach stored on site. Operator indicated that these were added temporarily due to the construction of a new area for liquid bleach storage. Make necessary updates as the processes of the facility change. Update information electronically via CERS http://cers.calepa.ca.gov
Violation Division: San Bernardino County Fire Department

IEUA REGIONAL PLANT #4 (Continued) **S106175552**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 37713
Site Name: IEUA REGIONAL PLANT #4
Violation Date: 09-28-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to prepare and implement a Spill Prevention Control and Countermeasure (SPCC) Plan.
Violation Notes: Returned to compliance on 10/11/2017. SPCC (Spill Prevention Control and Countermeasure) Plan was unavailable for review at the time of inspection. Maintain SPCC Plan on site for review.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-06-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-06-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-28-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-28-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-28-2017
Violations Found: Yes

IEUA REGIONAL PLANT #4 (Continued) **S106175552**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: PIETRO CAMBIASO
Entity Title: Not reported
Affiliation Address: PO BOX 9020
Affiliation City: CHINO HILLS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91709
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 12811 6TH ST
Affiliation City: RANCHO CUCAMONGA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91729
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Scott Lening
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 993-1719

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Legal Owner
Entity Name: Inland Empire Utilities Agency
Entity Title: Not reported
Affiliation Address: PO BOX 9020
Affiliation City: CHINO HILLS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91709
Affiliation Phone: (909) 993-1600

IEUA REGIONAL PLANT #4 (Continued) **S106175552**

Affiliation Type Desc:	Parent Corporation
Entity Name:	IEUA
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Tony Arellano
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Randy Lee
Entity Title:	Executive Manager of Operations
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

H46 **I.E.U.A. PLANT #4** **UST** **U003940078**
SSE **12811 6TH ST** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91739**
0.149 mi.
786 ft. **Site 3 of 3 in cluster H**

Relative: **Lower**
Actual: **1095 ft.**

UST:

Name:	I.E.U.A. PLANT #4
Address:	12811 6TH ST
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility ID:	97045697
Permitting Agency:	SAN BERNARDINO COUNTY
Latitude:	34.087238
Longitude:	-117.524906

I47 **CHAPARRAL TRUCKING** **RCRA NonGen / NLR** **1000345270**
NE **8729 ETIWANDA** **FINDS** **CAD981438823**
1/8-1/4 **ETIWANDA, CA 91739** **ECHO**
0.159 mi.
840 ft. **Site 1 of 4 in cluster I**

Relative: **Higher**
Actual: **1136 ft.**

RCRA NonGen / NLR:

Date form received by agency:	1986-09-15 00:00:00.0
Facility name:	CHAPARRAL TRUCKING
Facility address:	8729 ETIWANDA

CHAPARRAL TRUCKING (Continued) **1000345270**

ETIWANDA, CA 91739
EPA ID: CAD981438823
Mailing address: P O BOX 3695
HUMBLE, TX 77347
Contact: ENVIRONMENTAL MANAGER
Contact address: 8729 ETIWANDA
ETIWANDA, CA 91739
Contact country: US
Contact telephone: 714-899-2556
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: CHAPARRAL TRUCKING CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No

CHAPARRAL TRUCKING (Continued) **1000345270**

Used oil transporter: No

Violation Status: No violations found

FINDS:
Registry ID: 110002705252

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000345270
Registry ID:	110002705252
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002705252
Name:	CHAPARRAL TRUCKING
Address:	8729 ETIWANDA
City,State,Zip:	ETIWANDA, CA 91739

I48 **NATIONAL DISTRIBUTION CENTERS** **RCRA NonGen / NLR** **1024851433**
NE **8688 ETIWANDA AVE** **CAL000409980**
1/8-1/4 **RANCHO CUCAMONGA, CA 91739**
0.210 mi.
1108 ft. **Site 2 of 4 in cluster I**

Relative: Higher
Actual: 1142 ft.

RCRA NonGen / NLR:

Date form received by agency:	2015-09-09 00:00:00.0
Facility name:	NATIONAL DISTRIBUTION CENTERS
Facility address:	8688 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739
EPA ID:	CAL000409980
Mailing address:	15835 SAN ANTONIO AVE CHINO, CA 91708-7608
Contact:	STEFAN RADUHA
Contact address:	2496 TECHNOLOGY DRIVE ELGIN, IL 60124
Contact country:	Not reported
Contact telephone:	847-888-0276
Contact email:	COMPLIANCE@JMMGLOBAL.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	STEFAN RADUHA
Owner/operator address:	2496 TECHNOLOGY DRIVE ELGIN, IL 60124
Owner/operator country:	Not reported
Owner/operator telephone:	847-888-0276
Owner/operator email:	Not reported

NATIONAL DISTRIBUTION CENTERS (Continued) **1024851433**

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NATIONAL DISTRIBUTION CENTERS LP
Owner/operator address: 1515 BURNT MILL RD
CHERRY HILL, NJ 08003
Owner/operator country: Not reported
Owner/operator telephone: 856-857-1324
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

I49 **NATIONAL DISTRIBUTION CENTERS LLC** **CERS HAZ WASTE** **S118839868**
NE **8688 ETIWAND AVE** **NPDES** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91739** **San Bern. Co. Permit**
0.210 mi. **CERS**
1108 ft. **Site 3 of 4 in cluster I**

Relative:
Higher

Actual:
1142 ft.

CERS HAZ WASTE:
Name: NATIONAL DISTRIBUTION CENTERS LLC
Address: 8688 ETIWANDA AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 398074
CERS ID: 10662277
CERS Description: Hazardous Waste Generator

NPDES:
Name: NATIONAL DISTRIBUTION CENTERS LLC
Address: 8688 ETIWAND AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Facility Status: Active

NATIONAL DISTRIBUTION CENTERS LLC (Continued) **S118839868**

NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	472126
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 36NEC003000
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/21/2017
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	8688 Etiwand Ave
Discharge Name:	National Distribution Centers LLC
Discharge City:	Rancho Cucamonga
Discharge State:	California
Discharge Zip:	91739
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	472126
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36NEC003000
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	01/31/2017
Processed Date:	02/21/2017
Status:	Active
Status Date:	02/21/2017
Place Size:	27.25
Place Size Unit:	Acres
Contact:	Mia Crespo
Contact Title:	General Manager
Contact Phone:	909-477-2800
Contact Phone Ext:	Not reported
Contact Email:	mia.crespo@nfiindustries.com
Operator Name:	National Distribution Centers LLC

NATIONAL DISTRIBUTION CENTERS LLC (Continued) **S118839868**

Operator Address:	8688 Etiwand Ave
Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91739
Operator Contact:	Mark Winsborrow
Operator Contact Title:	Director of Safety
Operator Contact Phone:	909-393-1007
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	mark.winsborrow@nfiindustries.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-297-6440
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Ana River Basin
Certifier:	Mark Winsborrow
Certifier Title:	Director of Safety
Certification Date:	31-JAN-17
Primary Sic:	4225-General Warehousing and Storage
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	472126
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36NEC003000
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/21/2017

NATIONAL DISTRIBUTION CENTERS LLC (Continued) **S118839868**

Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	National Distribution Centers LLC
Discharge Address:	8688 Etiwand Ave
Discharge City:	Rancho Cucamonga
Discharge State:	California
Discharge Zip:	91739
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported

NATIONAL DISTRIBUTION CENTERS LLC (Continued) **S118839868**

Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	NATIONAL DISTRIBUTION CENTERS LLC
Address:	8688 ETIWAND AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36NEC003000
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	02/21/2017
Operator Name:	National Distribution Centers LLC
Operator Address:	8688 Etiwand Ave
Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91739

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	472126
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36NEC003000
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported

NATIONAL DISTRIBUTION CENTERS LLC (Continued) **S118839868**

Received Date:	01/31/2017
Processed Date:	02/21/2017
Status:	Active
Status Date:	02/21/2017
Place Size:	27.25
Place Size Unit:	Acres
Contact:	Mia Crespo
Contact Title:	General Manager
Contact Phone:	909-477-2800
Contact Phone Ext:	Not reported
Contact Email:	mia.crespo@nfiindustries.com
Operator Name:	National Distribution Centers LLC
Operator Address:	8688 Etiwand Ave
Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91739
Operator Contact:	Mark Winsborrow
Operator Contact Title:	Director of Safety
Operator Contact Phone:	909-393-1007
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	mark.winsborrow@nfiindustries.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-297-6440
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Ana River Basin
Certifier:	Mark Winsborrow
Certifier Title:	Director of Safety
Certification Date:	31-JAN-17
Primary Sic:	4225-General Warehousing and Storage
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

NATIONAL DISTRIBUTION CENTERS LLC (Continued) **S118839868**

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	472126
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36NEC003000
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/21/2017
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	National Distribution Centers LLC
Discharge Address:	8688 Etiwand Ave
Discharge City:	Rancho Cucamonga
Discharge State:	California
Discharge Zip:	91739
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported

NATIONAL DISTRIBUTION CENTERS LLC (Continued) **S118839868**

Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	NATIONAL DISTRIBUTION CENTERS LLC
Address:	8688 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0016848
Owner:	National Distribution Centers LLC
Permit Number:	PT0036154
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	ACTIVE
Expiration Date:	08/31/2020

Name:	NATIONAL DISTRIBUTION CENTERS LLC
Address:	8688 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0016848
Owner:	National Distribution Centers LLC
Permit Number:	PT0037375
Permit Category:	HAZWASTE GENERAL ACTIVITY (NB)
Facility Status:	FEE EXEMPT
Expiration Date:	08/31/2017

CERS:

Name:	NATIONAL DISTRIBUTION CENTERS LLC
Address:	8688 ETIWANDA AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Site ID:	398074
CERS ID:	10662277
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-29-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported

NATIONAL DISTRIBUTION CENTERS LLC (Continued) **S118839868**

Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 398074
Facility Name: National Distribution Centers LLC
Env Int Type Code: HMBP
Program ID: 10662277
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 34.095660
Longitude: -117.523850

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Mark Winsborrow
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: Goodman Birtcher
Entity Title: Not reported
Affiliation Address: 15201 Von Karmen Ave
Affiliation City: Irvine
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92612
Affiliation Phone: (949) 407-0151

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Environmental Contact
Entity Name: Mark Winsborrow
Entity Title: Not reported
Affiliation Address: 16045 Mountain Ave
Affiliation City: Chino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91708
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address

NATIONAL DISTRIBUTION CENTERS LLC (Continued) **S118839868**

Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	8688 Etiwanda Ave
Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	MARK WINSBORROW
Entity Title:	DIRECTOR OF SAFETY
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	NATIONAL DISTRIBUTION CENTERS LLC
Entity Title:	Not reported
Affiliation Address:	2 Cooper St
Affiliation City:	Camden
Affiliation State:	NJ
Affiliation Country:	United States
Affiliation Zip:	08102
Affiliation Phone:	(800) 922-5088
Affiliation Type Desc:	Operator
Entity Name:	NATIONAL DISTRIBUTION CENTERS LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 463-5530
Affiliation Type Desc:	Parent Corporation
Entity Name:	National Distribution Centers L.P.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

I50 **GEORGIA PACIFIC** **RCRA NonGen / NLR** **1025849314**
NE **8688 ETIWANDA AVE** **CAC003029377**
1/8-1/4 **RANCHO CUCAMONGA, CA 91739**
0.210 mi.
1108 ft. **Site 4 of 4 in cluster I**

Relative:
Higher

Actual:
1142 ft.

RCRA NonGen / NLR:

Date form received by agency:	2019-08-14 00:00:00.0
Facility name:	GEORGIA PACIFIC
Facility address:	8688 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739
EPA ID:	CAC003029377
Contact:	CHRISTINE ROCKWOOD
Contact address:	8688 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739
Contact country:	Not reported
Contact telephone:	909-635-8620
Contact email:	CHRISTINA.ROCKWOOD@GAPAC.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	CHRISTINE ROCKWOOD
Owner/operator address:	8688 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739
Owner/operator country:	Not reported
Owner/operator telephone:	909-635-8620
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	CHRISTINE ROCKWOOD
Owner/operator address:	8688 ETIWANDA AVE RANCHO CUCAMONGA, CA 91739
Owner/operator country:	Not reported
Owner/operator telephone:	909-635-8620
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

GEORGIA PACIFIC (Continued) **1025849314**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

J51 **PACIFIC RECYCLING ENTERPRISES** **SEMS-ARCHIVE** **1003879838**
NE **13012 WITTRAM AVE.** **CAD983659970**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730**
0.222 mi.
1170 ft. **Site 1 of 4 in cluster J**

Relative:
Higher

Actual:
1127 ft.

SEMS Archive:
Site ID: 0904783
EPA ID: CAD983659970
Name: PACIFIC RECYCLING ENTERPRISES
Address: 13012 WITTRAM AVE.
Address 2: Not reported
City,State,Zip: RANCHO CUCAMONGA, CA 91730
Cong District: 35
FIPS Code: 06071
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:
Region: 09
Site ID: 0904783
EPA ID: CAD983659970
Site Name: PACIFIC RECYCLING ENTERPRISES
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1993-09-22 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0904783
EPA ID: CAD983659970
Site Name: PACIFIC RECYCLING ENTERPRISES
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1993-02-23 05:00:00
Finish Date: 1993-02-23 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf

PACIFIC RECYCLING ENTERPRISES (Continued) **1003879838**

Region:	09
Site ID:	0904783
EPA ID:	CAD983659970
Site Name:	PACIFIC RECYCLING ENTERPRISES
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1993-09-22 04:00:00
Qual:	N
Current Action Lead:	EPA Perf

J52 **IVP INC DBA V & L REPAIR** **RCRA NonGen / NLR** **1024789070**
ENE **13053 WHITTRAN** **CAL000058734**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730**
0.223 mi.
1180 ft. **Site 2 of 4 in cluster J**

Relative:
Higher

Actual:
1125 ft.

RCRA NonGen / NLR:

Date form received by agency:	1992-02-24 00:00:00.0
Facility name:	IVP INC DBA V & L REPAIR
Facility address:	13053 WHITTRAN RANCHO CUCAMONGA, CA 91730-0000
EPA ID:	CAL000058734
Mailing address:	13053 WHITTRAM AVE RANCHO CUCAMONGA, CA 91739-9619
Contact:	VAFAI-PARVANE, IRADZE
Contact address:	13053 WHITTRAM AVE RANCHO CUCAMONGA, CA 91739
Contact country:	Not reported
Contact telephone:	909-899-1395
Contact email:	IVPCO@YAHOO.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	VAFAI-PARVANE, IRADZE
Owner/operator address:	13053 WHITTRAM AVE RANCHO CUCAMONGA, CA 91739
Owner/operator country:	Not reported
Owner/operator telephone:	909-899-1395
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	IRADZE VAFAI-PARVANE
Owner/operator address:	13053 WHITTRAM AVE RANCHO CUCAMONGA, CA 91739

IVP INC DBA V & L REPAIR (Continued) **1024789070**

Owner/operator country: Not reported
Owner/operator telephone: 909-899-1395
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

J53 **IVP INC DBA V&L REPAIR & DISMANTLING** **CERS HAZ WASTE** **S121309681**
ENE **13053 WHITTRAM AVENUE** **NPDES** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91739** **San Bern. Co. Permit**
0.223 mi. **CERS**
1180 ft. **Site 3 of 4 in cluster J**

Relative:
Higher

Actual:
1125 ft.

CERS HAZ WASTE:
Name: V & L REPAIR
Address: 13053 & WHITTRAM AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 165296
CERS ID: 10046101
CERS Description: Hazardous Waste Generator

NPDES:
Name: IVP INC DBA V&L REPAIR & DISMANTLING
Address: 13053 WHITTRAM AVENUE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 8 36IN601905
Regulatory Measure Type: Industrial
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported

IVP INC DBA V&L REPAIR & DISMANTLING (Continued) **S121309681**

Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	No Action Required
Status Date:	07/13/2018
Operator Name:	IVP INC dba V&L Repair & Dismantling
Operator Address:	13053 Whittram Avenue
Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91739

San Bern. Co. Permit:

Name:	V & L REPAIR
Address:	13053 WHITTRAM AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0006998
Owner:	VAFAI, IRAJ
Permit Number:	PT0006421
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	12/31/2020

Name:	V & L REPAIR
Address:	13053 WHITTRAM AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0006998
Owner:	VAFAI, IRAJ
Permit Number:	PT0006422
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	12/31/2020

CERS:

Name:	V & L REPAIR
Address:	13053 & WHITTRAM AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Site ID:	165296
CERS ID:	10046101
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	165296
Site Name:	V & L REPAIR
Violation Date:	09-23-2014
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 09/26/2014. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Observed two 275-gallon totes of waste diesel fuel missing accumulation start dates.

IVP INC DBA V&L REPAIR & DISMANTLING (Continued) **S121309681**

	COMPLIANCE REQUIREMENT: -Submit a photograph showing that the containers have been properly labeled.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	165296
Site Name:	V & L REPAIR
Violation Date:	09-23-2014
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 09/26/2014. Hazardous waste accumulation time exceeded (CCR 66262.34(a)) Observed two unlabeled 275-gallon totes of waste diesel fuel stored on site for an unknown amount of time. COMPLIANCE REQUIREMENT: -Submit a copy of a hazardous waste manifest for the removal of waste diesel fuel.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	165296
Site Name:	V & L REPAIR
Violation Date:	07-13-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 07/13/2017. Failure to maintain used oil disposal receipts for at least 3 years (CHSC 25160.2(b)(3))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	165296
Site Name:	V & L REPAIR
Violation Date:	09-23-2014
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/12/2015. This facility has not submitted the Business Plan elements into CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	165296
Site Name:	V & L REPAIR
Violation Date:	09-23-2014
Citation:	22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description:	Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes:	Returned to compliance on 09/26/2014. Observed a 55-gallon drum of drained used oil filters stored on site for more than one year. Used

IVP INC DBA V&L REPAIR & DISMANTLING (Continued) **S121309681**

oil filters shall be removed within one year of the start of accumulation. COMPLIANCE REQUIREMENT: -Submit a copy of a disposal receipt for the removal of the used oil filters.

Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 165296
Site Name: V & L REPAIR
Violation Date: 07-13-2017
Citation: HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description: Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes: Returned to compliance on 07/19/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 165296
Site Name: V & L REPAIR
Violation Date: 07-13-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/13/2017. Failure to note accumulation start date on labels (CCR 66262.34(f)(2))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 165296
Site Name: V & L REPAIR
Violation Date: 07-13-2017
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Not reported
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 165296
Site Name: V & L REPAIR
Violation Date: 09-23-2014
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: The last Business Plan update submitted by this facility is dated 9/28/2011.

IVP INC DBA V&L REPAIR & DISMANTLING (Continued) **S121309681**

Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 165296
Site Name: V & L REPAIR
Violation Date: 07-13-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/13/2017. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 165296
Site Name: V & L REPAIR
Violation Date: 07-13-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 07/13/2017. Failure to retain Hazardous Waste Manifests for at least 3 years (CCR 66262.40(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 165296
Site Name: V & L REPAIR
Violation Date: 09-23-2014
Citation: HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name.
Violation Notes: Observed hazardous materials on site during the inspection that are not listed in the most current Business Plan inventory.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 165296
Site Name: V & L REPAIR
Violation Date: 07-13-2017
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Not reported
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP

IVP INC DBA V&L REPAIR & DISMANTLING (Continued) **S121309681**

Violation Source: CERS

Site ID: 165296
Site Name: V & L REPAIR
Violation Date: 09-23-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 09/26/2014. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) Any tank or container holding a hazardous waste must be properly labeled. Proper labeling includes the following information: the words G Hazardous Waste,G generator name and address, hazardous properties of the waste, composition & physical state of the waste, and the accumulation start date. Observed two 275-gallon totes missing hazardous waste labels. COMPLIANCE REQUIREMENT: -Submit a photograph showing that the containers have been properly labeled.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 165296
Site Name: V & L REPAIR
Violation Date: 07-13-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/13/2017. Failure to label hazardous waste containers (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-13-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION, FILE REVIEW
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION-V & L REPAIR
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION-V & L REPAIR

IVP INC DBA V&L REPAIR & DISMANTLING (Continued) **S121309681**

Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-13-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION, FILE REVIEW
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 165296
Site Name: V & L REPAIR
Site Address: 13053 & WHITTRAM AVE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 09-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 165296
Site Name: V & L REPAIR
Site Address: 13053 & WHITTRAM AVE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 09-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Document Preparer
Entity Name: GAMIDA SCHLEGEL
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

IVP INC DBA V&L REPAIR & DISMANTLING (Continued) **S121309681**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	GAMIDA SCHLEGEL
Entity Title:	Not reported
Affiliation Address:	13053 WHITTRAM
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	IVP INC DBA V & L REPAIR
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 899-1395
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	13053 WHITTRAM AVE
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	VAFAI, IRAJ
Entity Title:	Not reported
Affiliation Address:	13053 WHITTRAM AVE
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739
Affiliation Phone:	(909) 899-1395
Affiliation Type Desc:	Parent Corporation
Entity Name:	V & L REPAIR
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	IRAJ VAFAI

IVP INC DBA V&L REPAIR & DISMANTLING (Continued) **S121309681**

Entity Title:	Not reported
Affiliation Address:	13053 WHITTRAM AVE
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739
Affiliation Phone:	(909) 899-1395
Affiliation Type Desc:	Identification Signer
Entity Name:	GAMIDA "GOLDY" SCHLEGEL
Entity Title:	OFFICE MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

K54 **STERLING CAN** **CPS-SLIC** **S109928482**
East **8939 ETIWANDA AVENUE** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA**
0.230 mi.
1214 ft. **Site 1 of 4 in cluster K**

Relative: **Lower**
Actual: **1119 ft.**

CPS-SLIC:

Name:	STERLING CAN
Address:	8939 ETIWANDA AVENUE
City,State,Zip:	RANCHO CUCAMONGA, CA
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	06/22/1995
Global Id:	SLT8R1864120
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Lead Agency Case Number:	Not reported
Latitude:	34.143184
Longitude:	-117.522669
Case Type:	Cleanup Program Site
Case Worker:	PAH
Local Agency:	Not reported
RB Case Number:	SLT8R186
File Location:	Regional Board
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Tetrachloroethylene (PCE), Toluene, Xylene
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

K55 **STERLING CAN** **CPS-SLIC** **S102417030**
East **8939 ETIWANDA AVENUE** **CERS** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA**
0.230 mi.
1214 ft. **Site 2 of 4 in cluster K**

Relative:
Lower

Actual:
1119 ft.

SLIC REG 8:

Name:	STERLING CAN
Address:	8939 ETIWANDA AVENUE
City:	RANCHO CUCAMONGA
Type:	Soil
Facility Status:	Closed
Staff:	PAH
Substance:	PCE
Lead Agency:	Regional Board
Location Code:	Not reported
Thomas Bros Code:	Not reported

CERS:

Name:	STERLING CAN
Address:	8939 ETIWANDA AVENUE
City,State,Zip:	RANCHO CUCAMONGA, CA
Site ID:	199017
CERS ID:	SLT8R1864120
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	PATRICIA HANNON - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

K56 **CAL HOME BRANDS, C-H-B FOODS D** **HIST UST** **U001569535**
East **8939 ETIWANDA AV** **EMI** **N/A**
1/8-1/4 **ETIWANDA, CA 91739**
0.230 mi.
1214 ft. **Site 3 of 4 in cluster K**

Relative:
Lower

Actual:
1119 ft.

HIST UST:

Name:	CHB FOODS INC METAL DECO DIV
Address:	8939 ETIWANDA AVE
City,State,Zip:	ETIWANDA, CA 91739
File Number:	00029B74
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029B74.pdf
Region:	STATE
Facility ID:	00000016014
Facility Type:	Other
Other Type:	LITHO COATING
Contact Name:	G DIXON
Telephone:	7148992544
Owner Name:	CHB FOODS, INC
Owner Address:	772 TUNA PO BOX 3510
Owner City,St,Zip:	TERMINAL ISLAND, CA 90731
Total Tanks:	0000

CAL HOME BRANDS, C-H-B FOODS D (Continued) **U001569535**

Tank Num:	001
Container Num:	1
Year Installed:	1966
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	10

Tank Num:	002
Container Num:	M710-1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	003
Container Num:	2
Year Installed:	1966
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	10

Tank Num:	004
Container Num:	3
Year Installed:	1966
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Tank Num:	005
Container Num:	4
Year Installed:	1966
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Tank Num:	006
Container Num:	5
Year Installed:	1966
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Tank Num:	007
Container Num:	6
Year Installed:	1966

CAL HOME BRANDS, C-H-B FOODS D (Continued) **U001569535**

Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	10

Tank Num:	008
Container Num:	7
Year Installed:	1966
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None, 10

Click here for Geo Tracker PDF:

EMI:

Name:	CAL HOME BRANDS, C-H-B FOODS D
Address:	8939 ETIWANDA AV
City,State,Zip:	ETIWANDA, CA 91739
Year:	1987
County Code:	36
Air Basin:	SC
Facility ID:	42008
Air District Name:	SC
SIC Code:	2099
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	69
Reactive Organic Gases Tons/Yr:	68
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	12
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

K57 **NATIONAL CAN CORP** **RCRA-SQG** **1000260483**
East **8939 ETIWANDA AVE** **CAD041580945**
1/8-1/4 **ETIWANDA, CA 91739**
0.230 mi.
1214 ft. **Site 4 of 4 in cluster K**

Relative:
Lower

Actual:
1119 ft.

RCRA-SQG:

Date form received by agency:	1996-09-01 00:00:00.0
Facility name:	NATIONAL CAN CORP
Facility address:	8939 ETIWANDA AVE ETIWANDA, CA 91739
EPA ID:	CAD041580945
Mailing address:	PO BOX 347 ETIWANDA, CA 91739
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported

NATIONAL CAN CORP (Continued) **1000260483**

Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NATIONAL CAN CORPORATION
Owner/operator address: 8101 WEST HIGGINS ROAD
CITY NOT REPORTED, IL 99999
Owner/operator country: Not reported
Owner/operator telephone: 312-399-3392
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NATIONAL CAN CORPORATION
Owner/operator address: 8101 WEST HIGGINS ROAD
CHICAGO, IL 60631
Owner/operator country: Not reported
Owner/operator telephone: 312-399-3392
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 1980-08-18 00:00:00.0
Site name: NATIONAL CAN CORP

NATIONAL CAN CORP (Continued) **1000260483**

Classification: Large Quantity Generator

Violation Status: No violations found

J58 **TRINITY EQUIPMENT RENTALS** **RCRA NonGen / NLR** **1024837666**
ENE **13052 WHITTRAM AVE** **CAL000383535**
1/8-1/4 **RANCHO CUCAMONGA, CA 91739**
0.237 mi.
1251 ft. **Site 4 of 4 in cluster J**

Relative:
Higher

Actual:
1128 ft.

RCRA NonGen / NLR:
Date form received by agency: 2013-03-14 00:00:00.0
Facility name: TRINITY EQUIPMENT RENTALS
Facility address: 13052 WHITTRAM AVE
RANCHO CUCAMONGA, CA 91739
EPA ID: CAL000383535
Mailing address: 8531 MISSION BLVD
RIVERSIDE, CA 92509
Contact: STEVE DORADO
Contact address: 8531 MISSION BLVD
RIVERSIDE, CA 92509
Contact country: Not reported
Contact telephone: 951-836-7850
Contact email: STEVED@TRINITYEQUIPMENTRENTALS.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: STEVE DORADO
Owner/operator address: 8531 MISSION BLVD
RIVERSIDE, CA 92509
Owner/operator country: Not reported
Owner/operator telephone: 951-836-7850
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: RAMIRE SANDOVAL JR
Owner/operator address: 8531 MISSION BLVD
RIVERSIDE, CA 92509
Owner/operator country: Not reported
Owner/operator telephone: 909-463-4886
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

TRINITY EQUIPMENT RENTALS (Continued) **1024837666**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

L59 **INLAND EMPIRE REGIONAL COMPOSTING FACILITY** **AST** **S102041238**
SSW **12645 6TH ST** **CERS HAZ WASTE** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91739** **CERS TANKS**
0.250 mi. **San Bern. Co. Permit**
1319 ft. **Site 1 of 4 in cluster L** **CERS**

Relative: **Lower**

Actual: **1092 ft.**

AST:

Name:	INLAND EMPIRE REGIONAL COMPOSTING FACILITY
Address:	12645 6TH ST
City/Zip:	RANCHO CUCAMONGA,91739
Certified Unified Program Agencies:	Not reported
Owner:	INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY
Total Gallons:	Not reported
CERSID:	10052866
Facility ID:	FA0011441
Business Name:	IEUA
Phone:	(909) 993-1500
Fax:	(909) 993-1510
Mailing Address:	12645 6TH ST
Mailing Address City:	RANCHO CUCAMONGA
Mailing Address State:	CA
Mailing Address Zip Code:	91739
Operator Name:	JEFF ZIEGENBEIN
Operator Phone:	(909) 993-1981
Owner Phone:	(909) 993-1500
Owner Mail Address:	12645 6TH STREET
Owner State:	CA
Owner Zip Code:	91739
Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	CAL000329825

CERS HAZ WASTE:

Name:	INLAND EMPIRE REGIONAL COMPOSTING FACILITY
Address:	12645 6TH ST
City,State,Zip:	RANCHO CUCAMONGA, CA 91739

INLAND EMPIRE REGIONAL COMPOSTING FACILITY (Continued) **S102041238**

Site ID: 124345
CERS ID: 10052866
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: INLAND EMPIRE REGIONAL COMPOSTING FACILITY
Address: 12645 6TH ST
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 124345
CERS ID: 10052866
CERS Description: Aboveground Petroleum Storage

San Bern. Co. Permit:
Name: INLAND EMPIRE REGIONAL COMPOSTING FACILITY
Address: 12645 6TH ST
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0011441
Owner: INLAND EMPIRE UTILITIES AGENCY
Permit Number: PT0021742
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 03/31/2020

Name: INLAND EMPIRE REGIONAL COMPOSTING FACILITY
Address: 12645 6TH ST
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0011441
Owner: INLAND EMPIRE UTILITIES AGENCY
Permit Number: PT0021741
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 03/31/2020

Name: INLAND EMPIRE REGIONAL COMPOSTING FACILITY
Address: 12645 6TH ST
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0011441
Owner: INLAND EMPIRE UTILITIES AGENCY
Permit Number: PT0021740
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 03/31/2020

Name: INLAND EMPIRE REGIONAL COMPOSTING FACILITY
Address: 12645 6TH ST
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0011441
Owner: INLAND EMPIRE UTILITIES AGENCY
Permit Number: PT0021743
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 03/31/2014

INLAND EMPIRE REGIONAL COMPOSTING FACILITY (Continued) **S102041238**

CERS:
Name: INLAND EMPIRE REGIONAL COMPOSTING FACILITY
Address: 12645 6TH ST
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 124345
CERS ID: 10052866
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 124345
Site Name: INLAND EMPIRE REGIONAL COMPOSTING FACILITY
Violation Date: 04-02-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 04/16/2015. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Accumulation start dates were not marked on the waste oil containers. Ensure that a date is added at the start of accumulation.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 124345
Site Name: INLAND EMPIRE REGIONAL COMPOSTING FACILITY
Violation Date: 04-02-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 04/16/2015. Failure to inspect Hazardous Waste container storage areas weekly (CCR 66265.174) A weekly hazardous waste inspection has not been conducted. A weekly template was provided.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-02-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ieua inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

INLAND EMPIRE REGIONAL COMPOSTING FACILITY (Continued) **S102041238**

Eval Date:	04-02-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ieua inspection
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-24-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-02-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ieua inspection
Eval Division:	San Bernardino County Fire Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-24-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	APSA
Eval Source:	CERS

Enforcement Action:

Site ID:	124345
Site Name:	INLAND EMPIRE REGIONAL COMPOSTING FACILITY
Site Address:	12645 6TH ST
Site City:	RANCHO CUCAMONGA
Site Zip:	91739
Enf Action Date:	04-02-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS

Coordinates:

Site ID:	124345
Facility Name:	INLAND EMPIRE REGIONAL COMPOSTING FACILITY
Env Int Type Code:	HWG
Program ID:	10052866
Coord Name:	Not reported
Ref Point Type Desc:	Unknown

INLAND EMPIRE REGIONAL COMPOSTING FACILITY (Continued) **S102041238**

Latitude: 34.085050
Longitude: -117.529630

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: PIETRO CAMBIASO
Entity Title: Not reported
Affiliation Address: PO BOX 9020
Affiliation City: CHINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91709
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY
Entity Title: Not reported
Affiliation Address: 12645 6TH STREET
Affiliation City: RANCHO CUCAMONGA
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91739
Affiliation Phone: (909) 993-1500

Affiliation Type Desc: Parent Corporation
Entity Name: IEUA
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 12645 6TH ST
Affiliation City: RANCHO CUCAMONGA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91739
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Identification Signer
Entity Name: Randy Lee
Entity Title: Executive Manager of Operations

INLAND EMPIRE REGIONAL COMPOSTING FACILITY (Continued) **S102041238**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	JEFF ZIEGENBEIN
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 993-1981
Affiliation Type Desc:	Document Preparer
Entity Name:	Tony Arellano
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

L60 **INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY** **SWF/LF** **S113151672**
SSW **12645 6TH ST** **HAZNET** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91739** **HWTS**
0.250 mi.
1319 ft. **Site 2 of 4 in cluster L**

Relative: **Lower**
Actual: **1092 ft.**

LOS ANGELES CO. LF:

Name:	INLAND EMPIRE REGIONAL COMPOSTING FACILITY
Address:	12645 6TH ST.
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Site ID:	2733
Alt. Address:	N/A
Site Contact:	Not reported
Site Contact Phone:	(909) 993-1500
Site Email:	Not reported
Site Website:	N/A
Site Type:	Out-of-County Facility
Site SWIS Number:	36-AA-0423
Beginning Operation Date:	N/A
Ending Operation Date:	N/A
Local Enforcement Agency:	County of San Bernardino Div. of Environmental Health Services
Maximun Depth Fill(Ft):	Not reported
Permitted Capacity:	420
Present Use:	Solid Waste Operation
Remaining Capacity(Million):	N/A
Status:	Active
Waste Accepted:	Green Materials;
Hours of Operation:	Monday - Friday 7 am - 5 pm
Disposal Area (Acre):	Not reported

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **S113151672**

Detail As Of 01/2014:

Operator Name:	Unknown
Operator Address:	Not reported
Operator City/State/Zip:	Not reported
Operator Contact:	Not reported
Operator Telephone:	Not reported
Operator Email:	Not reported
Owner Name:	Unknown
Owner Address:	Not reported
Owner City/State/Zip:	Not reported
Owner Contact:	Not reported
Owner Telephone:	Not reported
Owner Email:	Not reported

HAZNET:

Name:	INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY
Address:	12645 6TH ST
Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 917399223
Contact:	JEFF KING
Telephone:	9099931500
Mailing Name:	Not reported
Mailing Address:	12645 6TH ST
Year:	2019
Gepaid:	CAL000329825
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.04200
Year:	2017
Gepaid:	CAL000329825
TSD EPA ID:	CAD982444481
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.646
Year:	2017
Gepaid:	CAL000329825
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.126
Year:	2016
Gepaid:	CAL000329825
TSD EPA ID:	CAD982444481
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **S113151672**

Tons:	1.596
Year:	2016
Gepaid:	CAL000329825
TSD EPA ID:	CAD982444481
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0495
Year:	2016
Gepaid:	CAL000329825
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.084
Year:	2015
Gepaid:	CAL000329825
TSD EPA ID:	CAD982444481
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.817
Year:	2015
Gepaid:	CAL000329825
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.084
Year:	2014
Gepaid:	CAL000329825
TSD EPA ID:	CAD982444481
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.76
Year:	2013
Gepaid:	CAL000329825
TSD EPA ID:	CAD982444481
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.165

Click this hyperlink while viewing on your computer to access
6 additional CA HAZNET: record(s) in the EDR Site Report.

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **S113151672**

Additional Info:

Year:	2009
Gen EPA ID:	CAL000329825
Shipment Date:	20091223
Creation Date:	10/8/2010 18:30:48
Receipt Date:	20091227
Manifest ID:	006128817JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SVCS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091216
Creation Date:	2/3/2010 18:30:55
Receipt Date:	20091216
Manifest ID:	006128645JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SVCS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090803
Creation Date:	9/23/2009 18:30:08
Receipt Date:	20090805

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **S113151672**

Manifest ID:	006018585JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090803
Creation Date:	9/23/2009 18:30:08
Receipt Date:	20090805
Manifest ID:	006018585JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090223
Creation Date:	4/8/2009 18:31:11
Receipt Date:	20090223
Manifest ID:	004961435JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **S113151672**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAL000329825
Shipment Date:	20171220
Creation Date:	8/3/2018 18:30:42
Receipt Date:	20171221
Manifest ID:	017497183JJK
Trans EPA ID:	CAR000031211
Trans Name:	CALIFORNIA HAZARDOUS SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D001
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171204
Creation Date:	6/26/2018 18:30:22
Receipt Date:	20171206
Manifest ID:	017380484JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **S113151672**

RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.38
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170602
Creation Date:	5/20/2018 18:32:00
Receipt Date:	20170602
Manifest ID:	016465997JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.266
Waste Quantity:	70
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170130
Creation Date:	5/17/2017 18:31:39
Receipt Date:	20170202
Manifest ID:	016733096JJK
Trans EPA ID:	CAR000031211
Trans Name:	CALIFORNIA HAZARDOUS SERVICES, INC.
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D001
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **S113151672**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAL000329825
Shipment Date:	20150916
Creation Date:	11/17/2015 22:15:32
Receipt Date:	20150917
Manifest ID:	014446844JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150617
Creation Date:	9/8/2015 22:15:26
Receipt Date:	20150619
Manifest ID:	014581029JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.228
Waste Quantity:	60
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **S113151672**

Additional Code 5:	Not reported
Shipment Date:	20150317
Creation Date:	6/24/2015 22:15:41
Receipt Date:	20150318
Manifest ID:	013863638JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.38
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150224
Creation Date:	5/19/2015 22:15:15
Receipt Date:	20150304
Manifest ID:	012769434JJK
Trans EPA ID:	CAR000209023
Trans Name:	CALIFORNIA HAZARDOUS SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D001
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAL000329825
Shipment Date:	20141006

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **S113151672**

Creation Date:	11/22/2014 22:15:14
Receipt Date:	20141006
Manifest ID:	013482000JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.38
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140428
Creation Date:	6/24/2014 22:15:06
Receipt Date:	20140429
Manifest ID:	012428762JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.38
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAL000329825

Shipment Date:	20110822
Creation Date:	10/24/2011 18:30:13
Receipt Date:	20110829
Manifest ID:	008549606JJK

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **S113151672**

Trans EPA ID:	CAR000206086
Trans Name:	NORTH STATE ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBRO-TECH INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAL000329825
Shipment Date:	20131001
Creation Date:	11/7/2013 22:15:14
Receipt Date:	20131001
Manifest ID:	011439493JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.165
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAL000329825
Shipment Date:	20150916
Creation Date:	11/17/2015 22:15:32

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **S113151672**

Receipt Date:	20150917
Manifest ID:	014446844JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150617
Creation Date:	9/8/2015 22:15:26
Receipt Date:	20150619
Manifest ID:	014581029JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.228
Waste Quantity:	60
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150317
Creation Date:	6/24/2015 22:15:41
Receipt Date:	20150318
Manifest ID:	013863638JJK
Trans EPA ID:	CAR000172460
Trans Name:	ENVIRONMENTAL LOGISTICS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **S113151672**

Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.38
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150224
Creation Date:	5/19/2015 22:15:15
Receipt Date:	20150304
Manifest ID:	012769434JJK
Trans EPA ID:	CAR000209023
Trans Name:	CALIFORNIA HAZARDOUS SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D001
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAL000329825
Shipment Date:	20080919
Creation Date:	10/21/2008 18:30:24
Receipt Date:	20080919
Manifest ID:	003939600JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SVCS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **S113151672**

Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080919
Creation Date:	11/3/2008 18:30:40
Receipt Date:	20080923
Manifest ID:	001681877JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY AND OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY
Address:	12645 6TH ST
Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 917399223
EPA ID:	CAL000329825
Inactive Date:	Not reported
Create Date:	02/20/2008
Last Act Date:	10/11/2019
Mailing Name:	Not reported
Mailing Address:	12645 6TH ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	RANCHO CUCAMONGA, CA 917399223
Owner Name:	INLAND EMPIRE UTILITIES AGENCY
Owner Address:	6075 KIMBALL AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	CHINO, CA 917089174
Contact Name:	JEFF KING
Contact Address:	12645 6TH ST

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **S113151672**

Contact Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 91739

NAICS:

EPA ID:	CAL000329825
Create Date:	2008-02-20 08:11:38
NAICS Code:	325314
NAICS Description:	Fertilizer (Mixing Only) Manufacturing
Issued EPA ID Date:	2008-02-20 08:11:38
Inactive Date:	Not reported
Facility Name:	INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY
Facility Address:	12645 6TH ST
Facility Address 2:	Not reported
Facility City:	RANCHO CUCAMONGA
Facility County:	36
Facility State:	CA
Facility Zip:	917399223

L61 **INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY** **RCRA NonGen / NLR** **1024819518**
SSW **12645 6TH ST** **CAL000329825**
1/8-1/4 **RANCHO CUCAMONGA, CA 91739**
0.250 mi.
1319 ft. **Site 3 of 4 in cluster L**

Relative:
Lower

Actual:
1092 ft.

RCRA NonGen / NLR:

Date form received by agency:	2008-02-20 00:00:00.0
Facility name:	INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY
Facility address:	12645 6TH ST RANCHO CUCAMONGA, CA 91739-9223
EPA ID:	CAL000329825
Contact:	JEFF KING
Contact address:	12645 6TH ST RANCHO CUCAMONGA, CA 91739
Contact country:	Not reported
Contact telephone:	909-993-1500
Contact email:	JKING@IEUA.ORG
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	JEFF KING
Owner/operator address:	12645 6TH ST RANCHO CUCAMONGA, CA 91739
Owner/operator country:	Not reported
Owner/operator telephone:	909-993-1500
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	INLAND EMPIRE UTILITIES AGENCY
Owner/operator address:	6075 KIMBALL AVE CHINO, CA 91708

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (Continued) **1024819518**

Owner/operator country:	Not reported
Owner/operator telephone:	909-993-1600
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

L62 **INLAND EMPIRE REGIONAL COMPOSTING FAC.** **SWF/LF** **S106528986**
SSW **12645 SIXTH STREET** **CERS** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA**
0.250 mi.
1319 ft. **Site 4 of 4 in cluster L**

Relative: **Lower**

Actual: **1092 ft.**

SWF/LF (SWIS):

Name:	INLAND EMPIRE REGIONAL COMPOSTING FAC.
Address:	12645 SIXTH STREET
City,State,Zip:	RANCHO CUCAMONGA, CA
Facility ID:	36-AA-0423
Lat/Long:	34.08668 / -117.52741
Owner Name:	Inland Empire Regional Composting Fac.
Owner Telephone:	9099931500
Owner Address:	John Gundlach, Manager
Owner Address2:	6075 Kimball Avenue
Owner City,St,Zip:	Chino, CA 91710
Operational Status:	Active
Operator:	Inland Empire Regional Composting Fac.
Operator Phone:	9099931500
Operator Address:	John Gundlach, Manager
Operator Address2:	6075 Kimball Avenue
Operator City,St,Zip:	Chino, CA 91710
Permit Date:	06/01/2007
Permit Status:	Notification
Permitted Acreage:	$24.40
Activity:	Biosolids Composting at POTWs
Regulation Status:	Notification
Landuse Name:	Residential,Commercial

INLAND EMPIRE REGIONAL COMPOSTING FAC. (Continued) **S106528986**

GIS Source: External
Category: Composting
Unit Number: 01
Inspection Frequency: Quarterly
Accepted Waste: Green Materials,Sludge (BioSolids)
Closure Date: Not reported
Closure Type: Not reported
Disposal Acreage: Not reported
SWIS Num: 36-AA-0423
Waste Discharge Requirement Num: Not reported
Program Type: Not reported
Permitted Throughput with Units: 650
Actual Throughput with Units: Tons/day
Permitted Capacity with Units: 150000
Remaining Capacity: Not reported
Remaining Capacity with Units: Tons/year
Lat/Long: 34.08668 / -117.52741

CERS:
Name: INLAND EMPIRE REGIONAL COMPOSTING FAC.
Address: 12645 SIXTH STREET
City,State,Zip: RANCHO CUCAMONGA, CA
Site ID: 509368
CERS ID: 36-AA-0423
CERS Description: Solid Waste and Recycle Sites

Affiliation:
Affiliation Type Desc: Legal Operator
Entity Name: Inland Empire Regional Composting Fac.
Entity Title: Not reported
Affiliation Address: John Gundlach, Manager6075 Kimball Avenue
Affiliation City: Chino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91710
Affiliation Phone: 9099931500

Affiliation Type Desc: Legal Owner
Entity Name: Inland Empire Regional Composting Fac.
Entity Title: Not reported
Affiliation Address: John Gundlach, Manager6075 Kimball Avenue
Affiliation City: Chino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91710
Affiliation Phone: 9099931500

63
ENE
1/4-1/2
0.321 mi.
1694 ft.

VILLA PARK LANDSCAPE
13109 WHITTRAM AVE.
RANCHO CUCAMONGA, CA

SWF/LF **S113473426**
CERS **N/A**

Relative:
Higher

Actual:
1129 ft.

SWF/LF (SWIS):

Name:	VILLA PARK LANDSCAPE
Address:	13109 WHITTRAM AVE.
City,State,Zip:	RANCHO CUCAMONGA, CA
Facility ID:	36-AA-0473
Lat/Long:	34.09378 / -117.51872
Owner Name:	Javier Reyes
Owner Telephone:	7145383788
Owner Address:	Not reported
Owner Address2:	739 B. West Ketella Ave.
Owner City,St,Zip:	Orange, CA 92867
Operational Status:	Active
Operator:	Villa Park Landscape
Operator Phone:	7145383788
Operator Address:	Not reported
Operator Address2:	739 B. West Ketella Ave.
Operator City,St,Zip:	Orange, CA 92867
Permit Date:	02/19/2013
Permit Status:	Notification
Permitted Acreage:	$5.00
Activity:	Composting Operation (Green Waste)
Regulation Status:	Notification
Landuse Name:	Not reported
GIS Source:	Map
Category:	Composting
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Green Materials
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	Not reported
SWIS Num:	36-AA-0473
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	160
Actual Throughput with Units:	Cu Yards/day
Permitted Capacity with Units:	40000
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Cu Yards/year
Lat/Long:	34.09378 / -117.51872

CERS:

Name:	VILLA PARK LANDSCAPE
Address:	13109 WHITTRAM AVE.
City,State,Zip:	RANCHO CUCAMONGA, CA
Site ID:	512833
CERS ID:	36-AA-0473
CERS Description:	Solid Waste and Recycle Sites

Affiliation:

Affiliation Type Desc:	Legal Owner
Entity Name:	Javier Reyes
Entity Title:	Not reported

VILLA PARK LANDSCAPE (Continued) **S113473426**

Affiliation Address:	Not reported
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92867
Affiliation Phone:	7145383788
Affiliation Type Desc:	Legal Operator
Entity Name:	VILLA PARK LANDSCAPE
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92867
Affiliation Phone:	7145383788

64
North
1/4-1/2
0.357 mi.
1885 ft.

Relative:
Higher

Actual:
1154 ft.

GOODMAN LOGISTICS CENTER **WMUDS/SWAT** **S104156558**
12455 ARROW ROUTE **HIST UST** **N/A**
RANCHO CUCAMONGA, CA 91739 **DEED**
CHMIRS
LDS
ENF
NPDES
San Bern. Co. Permit
WDS
CIWQS
CERS

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Not reported
Primary Waste:	PROCES
Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Private
Agency Name:	AMERON PIPE CORP
Agency Department:	Not reported
Agency Address:	12455 ARROW ROUTE
Agency City,St,Zip:	ETIWANDA CA 91739
Agency Contact:	KIRK BATHGATE
Agency Telephone:	9098997808
Land Owner Name:	Not reported
Land Owner Address:	Not reported
Land Owner City,St,Zip:	Not reported

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Land Owner Contact: Not reported
Land Owner Phone: Not reported
Region: 8
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Description: Not reported
Facility Telephone: Not reported
SWAT Facility Name: Not reported
Primary SIC: 3272
Secondary SIC: Not reported
Comments: Not reported
Last Facility Editors: Not reported
Waste Discharge System: True
Solid Waste Assessment Test Program: False
Toxic Pits Cleanup Act Program: False
Resource Conservation Recovery Act: False
Department of Defence: False
Solid Waste Assessment Test Program: Not reported
Threat to Water Quality: Not reported
Sub Chapter 15: True
Regional Board Project Officer: Not reported
Number of WMUDS at Facility: 1
Section Range: Not reported
RCRA Facility: No
Waste Discharge Requirements: H
Self-Monitoring Rept. Frequency: Quarterly Submittal
Waste Discharge System ID: 8 362001001
Solid Waste Information ID: Not reported

HIST UST:
Name: AMERICAN PIPE ARROW PLANT
Address: 12455 ARROW ROUTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
File Number: 000298E0
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000298E0.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Leak Detection: Not reported

Click here for Geo Tracker PDF:

DEED:

Name: AMERON INTERNATIONAL CORP., BRINE FACILITY (CLOSED)
Address: 12455 ARROW ROUTE
City,State,Zip: ETIWANDA, CA 91739
Envirostor ID: T10000003511
Area: Not reported
Sub Area: Not reported
Site Type: LANDFILL
Status: COMPLETED - CASE CLOSED
Agency: SWRCB
Covenant Uploaded: Y
Deed Date(s): 07/27/2007
File Name: Geotracker Land Use/Deed Restrictions

Name: AMERON INTERNATIONAL CORP., BRINE FACILITY (CLOSED)
Address: 12455 ARROW ROUTE
City,State,Zip: ETIWANDA, CA 91739
Envirostor ID: T10000003511
Area: Not reported
Sub Area: Not reported
Site Type: LANDFILL
Status: COMPLETED - CASE CLOSED
Agency: SWRCB
Covenant Uploaded: Y
Deed Date(s): 04/22/2015
File Name: Geotracker Land Use/Deed Restrictions

CHMIRS:

Name: Not reported
Address: 12455 ARROW ROUTE
City,State,Zip: ETIWANDA, CA 91739
OES Incident Number: 08-3271
OES notification: 05/05/2008
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Industrial Plant
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	2145
Year:	2008
Agency:	Ameron Int
Incident Date:	3/14/2007
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Diesel
Quantity Released:	50
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	***HISTORICAL REPORT*** RP states that while fueling a truck, it was over filled causing a release onto the ground.
Name:	Not reported
Address:	12455 ARROW ROUTE
City,State,Zip:	ETIWANDA, CA 91739
OES Incident Number:	12-2072
OES notification:	04/09/2012
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	storm drain
Spill Site:	Merchant/Business
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1400
Year:	2012
Agency:	AMERON Env
Incident Date:	4/6/2012
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	storm drain
E Date:	Not reported
Substance:	Ph Water
Quantity Released:	500-1000
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Fatals:	Not reported
Comments:	Not reported
Description:	A valve was stuck open causing the water to flow to a storm drain which is contained in the storm drain.

LDS:

Name:	AMERON INTERNATIONAL CORP., BRINE FACILITY (CLOSED)
Address:	12455 ARROW ROUTE
City,State,Zip:	ETIWANDA, CA 91739
Global Id:	T10000003511
Latitude:	34.09452
Longitude:	-117.5324
Case Type:	Land Disposal Site
Status:	Completed - Case Closed
Status Date:	07/21/2016
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Caseworker:	JPL
Local Agency:	Not reported
RB Case Number:	8 362001001
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Soil
EDR Link ID:	T10000003511
Potential Contaminants of Concern:	Other inorganic / salt
Site History:	Pond Construction - The SARWQCB records indicate that a wastewater pond was installed at the site in September 1966. The pond was used to hold industrial wastewater on-site. Brine Pond Permitting - The SARWQCB approved the operation of the pond under Resolution 66-26, which required testing of the effluent every two months. In 1967, site operations arranged for the construction of a small saline discharge pond to hold the waste segregated from the water softening process. Brine Pond Expansion - A larger brine pond was constructed on-site in 1970. The expanded pond was reportedly lined with polyethylene. The SARWQCB updated the sites waste discharge requirements in Resolution 70-22 in 1970. Permitting - The SARWQCB updated the 1976 Resolution with a Monitoring and Reporting Program Order (No. 82-142) in 1982 for industrial wastewater discharge monitoring at the site. The order No. 82-142 outlines ongoing monitoring and reporting of recycled cure yard water. Request for Soil Investigation - In 1994, the SARWQCB noted the brine pond had a liner fabricated with polyvinylchloride (PVC); however, the barrier was not equipped with a leak detection system. The SARWQCB requested soil sampling around the brine pond to evaluate soil impacts associated with the liner leakage. The memo also stated that use of the pond had to cease while pond retrofitting was implemented. If contamination was found to exist below the pond, which could not be removed by soil excavation, then a surface cap would have to be constructed to prevent water infiltration. Discharges to the brine pond ceased in March 1994. Brine Pond Abandonment Work Plan - On August 18, 1994, a brine pond abandonment work plan was prepared and submitted to the SARWQCB to conduct the following: (1) evaporate the water in the soil; (2) remove the soil above the pond liner; (3) remove the pond liner; (4) conduct field analytical tests, and; (5) submit samples to the laboratory for testing. Liner Removal, Excavation, and Soil Disposal - A report prepared by Hemphill Green

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

and Associates indicates that the liner from the brine pond was removed in October of 1994 and 555 tons of soil were removed from the site. Soil Investigation - On June 29, 1995, subsurface soil samples were collected and a soil investigation report was prepared. Based on a subsurface investigation, subsurface soil had been impacted above SARWQCB limits by the pond wastewater which had leaked through the liner material. Lateral Delineation - It was determined that the lateral extent of total dissolved solids (TDS) impacts was delineated. In 2005, all the liquid had been removed from the pond, material above the liner was removed, and the pond was backfilled with approximately 6.5 feet of compacted fill from the site. An engineered brine pond cap had been placed on the former pond in accordance with the technical specifications approved by the SARWQCB. Closure Report - The Final Cap Closure Report was approved by the SARWQCB in 2007. A Declaration of Restrictions was signed during the same year. An annual cap monitoring and maintenance plan is in effect at the site. Cap and Liner Design - Encon installed a cap that incorporated a reinforced block retaining wall, backfill material, and a 30-mil polyvinyl liner over the brine pond area for leak detection (Figure 6). The brine pond area abandonment and cap construction were performed based on the Encon Brine Pond Permanent Cap Work Plan (ENCON, 2003). The 30-mil liner was installed between a 6-inch layer of sand below the liner, and a 12- inch layer of sand above the liner. An 8-inch thick concrete rebar-reinforced cap was installed above the liner with a 6-inch gravel base. The purpose of the cap is to prevent infiltration of water through the TDS-impacted soil and to prevent migration of TDS mass into the aquifer. The purpose of the liner is to act as a secondary barrier; combined with a monitoring well, it is designed to detect and contain cap leaks. Goodman Birtcher acquired the Ameron site property in late 2013, and redeveloped the site into a warehouse distribution center, Goodman Logistic Center. The existing brine pond cap has been modified and the former brine pond area has been used as a parking lot. Board files for this case has been renamed from "Ameron Pipe Division, Southern California (Arrow Plant), Etiwanda" to "Goodman Logistic Center, Rancho Cucamonga"

Click here to access the California GeoTracker records for this facility:

ENF:

Name:	ETIWANDA FACILITY
Address:	12455 ARROW ROUTE
City,State,Zip:	ETIWANDA, CA 91739
Region:	8
Facility Id:	222993
Agency Name:	Not reported
Place Type:	Manufacturing
Place Subtype:	Concrete Manufacturing
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	34.099071
Place Longitude:	-117.534015
SIC Code 1:	3272
SIC Desc 1:	Concrete Products, Except Block and Brick
SIC Code 2:	Not reported

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	LNDISP
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	382959
Region:	8
Order / Resolution Number:	Not reported
Enforcement Action Type:	13267 Letter
Effective Date:	06/20/2007
Adoption/Issuance Date:	06/20/2007
Achieve Date:	Not reported

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	13267 for Ameron International - Etiwanda
Description:	Requiring Ameron International to inspect and maintain the closure cap for the closed brine pond at the site in accordance with the cap maintenance program approved by Board staff on June 20, 2007 (see attached). The cap inspection and maintenance program was revised via the Board's March 13, 2012 letter (see attachments).
Program:	LNDISPOTH
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	ETIWANDA FACILITY
Address:	12455 ARROW ROUTE
City,State,Zip:	ETIWANDA, CA 91739
Region:	8
Facility Id:	222993
Agency Name:	Ameron International - Water Transmission Group
Place Type:	Manufacturing
Place Subtype:	Concrete Manufacturing
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.099071
Place Longitude:	-117.534015
SIC Code 1:	3272
SIC Desc 1:	Concrete Products, Except Block and Brick
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.0001
Threat To Water Quality:	3
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Program:	WDRINDIVLRG
Program Category1:	WDR
Program Category2:	WDR
# Of Programs:	1
WDID:	8 362001001
Reg Measure Id:	137750
Reg Measure Type:	WDR
Region:	8
Order #:	82-142
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	11/02/2011
Effective Date:	05/14/1982
Expiration/Review Date:	05/10/1997
Termination Date:	10/28/2011
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	15 - WDRs pending rescission
Direction/Voice:	Passive
Enforcement Id(EID):	244735
Region:	8
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	01/30/2003
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	01/30/2003
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 8 362001001
Description:	Not reported
Program:	WDRINDIVLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

NPDES:

Name:	GOODMAN LOGISTICS CENTER

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Address:	12455 ARROW ROUTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36C368827
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	02/03/2016
Operator Name:	goodman rancho spe llc
Operator Address:	18201 von karman ave
Operator City:	irvine
Operator State:	California
Operator Zip:	92612

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	444133
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36C368827
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/31/2014
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	12/29/2015
Discharge Name:	goodman rancho spe llc
Discharge Address:	18201 von karman ave
Discharge City:	irvine
Discharge State:	California
Discharge Zip:	92612
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	444133
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 36C368827

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	12/29/2015
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	01/31/2014
Processed Date:	01/31/2014
Status:	Terminated
Status Date:	02/03/2016
Place Size:	77.5
Place Size Unit:	Acres
Contact:	ward mace
Contact Title:	Not reported
Contact Phone:	949-407-0142
Contact Phone Ext:	Not reported
Contact Email:	ward.mace@goodman.com
Operator Name:	goodman rancho spe llc
Operator Address:	18201 von karman ave
Operator City:	irvine
Operator State:	California
Operator Zip:	92612
Operator Contact:	ward mace
Operator Contact Title:	Not reported
Operator Contact Phone:	949-407-0142
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	ward.mace@goodman.com
Operator Type:	Private Business
Developer:	goodman rancho spe llc
Developer Address:	18201 von karman ave
Developer City:	irvine
Developer State:	California
Developer Zip:	92612
Developer Contact:	ward mace
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Not reported
Certifier:	ward mace
Certifier Title:	vice president entitlement and construction
Certification Date:	31-JAN-14
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	AMERON INTERNATIONAL WATER TRANSMISSION GROUP
Address:	12455 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0000929
Owner:	AMERON INTERNATIONAL
Permit Number:	PT0020272
Permit Category:	APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status:	INACTIVE
Expiration Date:	08/31/2014

Name:	AMERON INTERNATIONAL WATER TRANSMISSION GROUP
Address:	12455 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0000929
Owner:	AMERON INTERNATIONAL
Permit Number:	PT0002252
Permit Category:	HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	08/31/2014

Name:	AMERON INTERNATIONAL WATER TRANSMISSION GROUP
Address:	12455 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0000929
Owner:	AMERON INTERNATIONAL
Permit Number:	PT0002253
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	08/31/2014

Name:	AMERON INTERNATIONAL WATER TRANSMISSION GROUP
Address:	12455 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0000929
Owner:	AMERON INTERNATIONAL
Permit Number:	PT0020271
Permit Category:	EPCRA FACILITY
Facility Status:	INACTIVE
Expiration Date:	08/31/2013

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

WDS:

Name:	ETIWANDA FACILITY
Address:	12455 ARROW ROUTE
City:	ETIWANDA
Facility ID:	Santa Ana River 362001001
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	Not reported
Subregion:	8
Facility Telephone:	Not reported
Facility Contact:	KIRK BATHGATE
Agency Name:	AMERON PIPE CORP
Agency Address:	12455 ARROW ROUTE
Agency City,St,Zip:	ETIWANDA 91739
Agency Contact:	KIRK BATHGATE
Agency Telephone:	Not reported
Agency Type:	Private
SIC Code:	3272
SIC Code 2:	Not reported
Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Primary Waste:	PROCES
Waste Type2:	Not reported
Waste2:	Process Waste (Waste produced as part of the industrial/manufacturing process)
Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	No reclamation requirements associated with this facility.
POTW:	The facility is not a POTW.
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.
Name:	STORMETIWANDA
Address:	12455 ARROW ROUTE

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

City:	ETIWANDA
Facility ID:	Santa Ana River 36I007020
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	Not reported
Facility Contact:	Not reported
Agency Name:	AMERON PIPE CORP
Agency Address:	12455 ARROW ROUTE
Agency City,St,Zip:	ETIWANDA 91739
Agency Contact:	KIRK BATHGATE
Agency Telephone:	Not reported
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Name:	GOODMAN LOGISTICS CENTER
Address:	12455 ARROW ROUTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Agency:	goodman rancho spe llc
Agency Address:	18201 von karman ave suite 1170, Irvine, CA 92612
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 36C368827
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	01/31/2014
Termination Date:	12/29/2015
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.098035
Longitude:	-117.527665

Name:	AMERON CONC & STEEL PIPE GRP
Address:	12455 ARROW RTE
City,State,Zip:	ETIWANDA, CA 91739
Agency:	Ameron International
Agency Address:	12455 Arrow Rte, Etiwanda, CA 91739
Place/Project Type:	Industrial - Concrete Products, Except Block and Brick
SIC/NAICS:	3272(+)
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I007020
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	06/27/1992
Termination Date:	06/05/2014
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.09905
Longitude:	-117.53405

Name:	ETIWANDA FACILITY
Address:	12455 ARROW ROUTE
City,State,Zip:	ETIWANDA, CA 91739
Agency:	Ameron International - Water Transmission Group
Agency Address:	12455 Arrow Route, Etiwanda, CA 91739
Place/Project Type:	Concrete Manufacturing
SIC/NAICS:	3272
Region:	8
Program:	WDRINDIVLRG
Regulatory Measure Status:	Historical
Regulatory Measure Type:	WDR
Order Number:	82-142

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

WDID:	8 362001001
NPDES Number:	Not reported
Adoption Date:	5/14/1982
Effective Date:	05/14/1982
Termination Date:	10/28/2011
Expiration/Review Date:	05/10/1997
Design Flow:	0.0001
Major/Minor:	Not reported
Complexity:	B
TTWQ:	3
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.099071
Longitude:	-117.534015

CERS:

Name:	ETIWANDA FACILITY
Address:	12455 ARROW ROUTE
City,State,Zip:	ETIWANDA, CA 91739
Site ID:	314231
CERS ID:	222993
CERS Description:	Waste Discharge Requirements

Violations:

Site ID:	314231
Site Name:	Etiwanda Facility
Violation Date:	12-31-2002
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	TDS = 1800 mg/L PERMIT = 450 mg/L
Violation Division:	Water Boards
Violation Program:	WDRINDIVLR
Violation Source:	CIWQS

Site ID:	314231
Site Name:	Etiwanda Facility
Violation Date:	08-08-2003
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Violation of chloride (monthly). They are reporting 74 mg/L and the limit is 65 mg/L.
Violation Division:	Water Boards
Violation Program:	WDRINDIVLR
Violation Source:	CIWQS

Site ID:	314231
Site Name:	Etiwanda Facility
Violation Date:	09-14-2004
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Violation of total hardness. They are reporting 290 mg/L and the limit is 190 mg/L.
Violation Division:	Water Boards
Violation Program:	WDRINDIVLR
Violation Source:	CIWQS

Site ID:	314231

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Site Name:	Etiwanda Facility
Violation Date:	06-30-2002
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Cl = 76 mg/L PERMIT = 65 mg/L
Violation Division:	Water Boards
Violation Program:	WDRINDIVLR
Violation Source:	CIWQS
Site ID:	314231
Site Name:	Etiwanda Facility
Violation Date:	09-14-2004
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Violation of TDS. They are reporting 670 mg/L and the limit is 450 mg/L.
Violation Division:	Water Boards
Violation Program:	WDRINDIVLR
Violation Source:	CIWQS
Site ID:	314231
Site Name:	Etiwanda Facility
Violation Date:	09-14-2004
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Violation of total hardness. They are reporting 310 mg/L and the limit is 190 mg/L.
Violation Division:	Water Boards
Violation Program:	WDRINDIVLR
Violation Source:	CIWQS
Site ID:	314231
Site Name:	Etiwanda Facility
Violation Date:	03-10-2005
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Violation of total hardness (monthly average). They are reporting 780 mg/L and the limit is 190 mg/L.
Violation Division:	Water Boards
Violation Program:	WDRINDIVLR
Violation Source:	CIWQS
Site ID:	314231
Site Name:	Etiwanda Facility
Violation Date:	09-14-2004
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Violation of total hardness. They are reporting 320 mg/L and the limit is 190 mg/L.
Violation Division:	Water Boards
Violation Program:	WDRINDIVLR
Violation Source:	CIWQS
Site ID:	314231
Site Name:	Etiwanda Facility
Violation Date:	09-14-2004
Citation:	California Water Code

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Violation Description:	Not reported
Violation Notes:	Violation of TDS. They are reporting 490 mg/L and the limit is 450 mg/L.
Violation Division:	Water Boards
Violation Program:	WDRINDIVLR
Violation Source:	CIWQS
Site ID:	314231
Site Name:	Etiwanda Facility
Violation Date:	03-10-2005
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Violation of chloride (monthly average). They are reporting 92 mg/L and the limit is 65 mg/L.
Violation Division:	Water Boards
Violation Program:	WDRINDIVLR
Violation Source:	CIWQS
Site ID:	314231
Site Name:	Etiwanda Facility
Violation Date:	05-27-2006
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Failed to submit report by 04/30/2006
Violation Division:	Water Boards
Violation Program:	WDR
Violation Source:	CIWQS
Site ID:	314231
Site Name:	Etiwanda Facility
Violation Date:	05-05-2003
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Violation of total hardness (Quarterly samples). The limit is 190 mg/L and they are reporting 350 mg/L.
Violation Division:	Water Boards
Violation Program:	WDRINDIVLR
Violation Source:	CIWQS
Site ID:	314231
Site Name:	Etiwanda Facility
Violation Date:	05-05-2003
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Violation of TDS (Quarterly samples). The limit is 450 mg/L and they are reporting 510 mg/L.
Violation Division:	Water Boards
Violation Program:	WDRINDIVLR
Violation Source:	CIWQS
Site ID:	314231
Site Name:	Etiwanda Facility
Violation Date:	09-14-2004
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Violation of chloride. They are reporting 70 mg/L and the limit is 65 mg/L.

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Violation Division: Water Boards
Violation Program: WDRINDIVLR
Violation Source: CIWQS

Site ID: 314231
Site Name: Etiwanda Facility
Violation Date: 04-15-2000
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Ameron submitted the fourth quarterly monitoring report 4 days late (due 1/31/02).
Violation Division: Water Boards
Violation Program: WDRINDIVLR
Violation Source: CIWQS

Site ID: 314231
Site Name: Etiwanda Facility
Violation Date: 04-15-2002
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Ameron submitted the third quarterly report 13 days late (due 10/31/01).
Violation Division: Water Boards
Violation Program: WDRINDIVLR
Violation Source: CIWQS

Site ID: 314231
Site Name: Etiwanda Facility
Violation Date: 06-26-2002
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Failure to submit the 3rd quarterly monitoring report by 7/31/01. The report was submitted on 8/13/01, 13 days later.
Violation Division: Water Boards
Violation Program: WDRINDIVLR
Violation Source: CIWQS

Site ID: 314231
Site Name: Etiwanda Facility
Violation Date: 09-14-2004
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Violation of TDS. They are reporting 800 mg/L and the limit is 450 mg/L.
Violation Division: Water Boards
Violation Program: WDRINDIVLR
Violation Source: CIWQS

Site ID: 314231
Site Name: Etiwanda Facility
Violation Date: 06-30-2002
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Total Hardness = 420 mg/L PERMIT = 190 mg/L
Violation Division: Water Boards
Violation Program: WDRINDIVLR
Violation Source: CIWQS

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Site ID: 314231
Site Name: Etiwanda Facility
Violation Date: 03-10-2005
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Violation of TDS (monthly average). They are reporting 1300 mg/L and the limit is 450 mg/L.
Violation Division: Water Boards
Violation Program: WDRINDIVLR
Violation Source: CIWQS

Site ID: 314231
Site Name: Etiwanda Facility
Violation Date: 02-19-2003
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Total Hardness = 620 mg/L (Permit = 190) Chloride = 110 mg/L (Permit = 65) TDS = 1300 mg/L (Permit = 450)
Violation Division: Water Boards
Violation Program: WDRINDIVLR
Violation Source: CIWQS

Site ID: 314231
Site Name: Etiwanda Facility
Violation Date: 06-30-2002
Citation: California Water Code
Violation Description: Not reported
Violation Notes: TDS = 950 mg/L PERMIT = 450 mg/L
Violation Division: Water Boards
Violation Program: WDRINDIVLR
Violation Source: CIWQS

Enforcement Action:
Site ID: 314231
Site Name: Etiwanda Facility
Site Address: 12455 ARROW ROUTE
Site City: ETIWANDA
Site Zip: 91739
Enf Action Date: 01-30-2003
Enf Action Type: Staff Enforcement Letter (Informal)
Enf Action Description: Staff Enforcement Letter (Informal)
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: UNSPEC
Enf Action Source: CIWQS

Site ID: 314231
Site Name: Etiwanda Facility
Site Address: 12455 ARROW ROUTE
Site City: ETIWANDA
Site Zip: 91739
Enf Action Date: 06-20-2007
Enf Action Type: Enforcement Letter (Formal)
Enf Action Description: Enforcement Letter Citing Violations and with Required Actions (Formal)
Enf Action Notes: Not reported
Enf Action Division: Water Boards

GOODMAN LOGISTICS CENTER (Continued) **S104156558**

Enf Action Program: UNSPEC
Enf Action Source: CIWQS

Name: AMERON INTERNATIONAL CORP., BRINE FACILITY (CLOSED)
Address: 12455 ARROW ROUTE
City,State,Zip: ETIWANDA, CA 91739
Site ID: 253727
CERS ID: T10000003511
CERS Description: Land Disposal Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: JOANNE LEE - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

65
WNW
1/4-1/2
0.395 mi.
2087 ft.

SOIL TREATMENT, RANCHO CUCAMON **WMUDS/SWAT** **S104156583**
12167 ARROW ROUTE **N/A**
RANCHO CUCAMONGA CA, CA 91739

Relative:
Higher

Actual:
1143 ft.

WMUDS/SWAT:
Edit Date: Not reported
Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.
Primary Waste: CNSOIL
Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Base Meridian: Not reported
NPID: Not reported
Tonnage: 0
Regional Board ID: Not reported
Municipal Solid Waste: False
Superorder: False
Open To Public: False
Waste List: False
Agency Type: Private
Agency Name: THE SOIL REFINERY, INC.
Agency Department: Not reported
Agency Address: 1802 EAST 'G' ST., SUITE 'D'
Agency City,St,Zip: ONTARIO CA 917644412
Agency Contact: DOMENIC MUNI
Agency Telephone: 9099860770

SOIL TREATMENT, RANCHO CUCAMON (Continued) **S104156583**

Land Owner Name:	Not reported
Land Owner Address:	Not reported
Land Owner City,St,Zip:	Not reported
Land Owner Contact:	Not reported
Land Owner Phone:	Not reported
Region:	8
Facility Type:	Solid Waste Site-Class II - A solid waste facility at which designated wastes may be treated or stored.
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	Not reported
Primary SIC:	4959
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	True
Solid Waste Assessment Test Program:	False
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	Not reported
Threat to Water Quality:	Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.
Sub Chapter 15:	True
Regional Board Project Officer:	Not reported
Number of WMUDS at Facility:	0
Section Range:	Not reported
RCRA Facility:	No
Waste Discharge Requirements:	H
Self-Monitoring Rept. Frequency:	Monthly Submittal
Waste Discharge System ID:	8 362420001
Solid Waste Information ID:	Not reported

66
WSW
1/4-1/2
0.439 mi.
2319 ft.

FOSECO INC
7TH ST OFF ROCHESTER AVE
RANCHO CUCAMONGA, CA 91730

SEMS-ARCHIVE **1000200995**
RCRA-SQG **CAD053844395**
ENVIROSTOR
HIST UST

Relative:
Lower

Actual:
1107 ft.

SEMS Archive:

Site ID:	0901435
EPA ID:	CAD053844395
Name:	FOSECO INC
Address:	7TH ST OFF ROCHESTER AVE
Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 91730
Cong District:	35
FIPS Code:	06071
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	09
Site ID:	0901435

FOSECO INC (Continued) **1000200995**

EPA ID:	CAD053844395
Site Name:	FOSECO INC
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1988-11-01 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	09
Site ID:	0901435
EPA ID:	CAD053844395
Site Name:	FOSECO INC
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1981-05-01 04:00:00
Finish Date:	1981-05-01 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901435
EPA ID:	CAD053844395
Site Name:	FOSECO INC
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1988-11-01 05:00:00
Qual:	N
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901435
EPA ID:	CAD053844395
Site Name:	FOSECO INC
NPL:	N
FF:	N
OU:	00
Action Code:	HX
Action Name:	PRE-CERC
SEQ:	1
Start Date:	Not reported
Finish Date:	2000-08-03 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

FOSECO INC (Continued) **1000200995**

Region:	09
Site ID:	0901435
EPA ID:	CAD053844395
Site Name:	FOSECO INC
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	2
Start Date:	1984-10-01 05:00:00
Finish Date:	1985-02-01 06:00:00
Qual:	L
Current Action Lead:	St Perf

RCRA-SQG:

Date form received by agency:	1996-09-01 00:00:00.0
Facility name:	FOSECO CUCAMONGA
Facility address:	7TH ST OFF ROCHESTER AVE RANCHO CUCAMONGA, CA 91730
EPA ID:	CAD053844395
Mailing address:	PO BOX 219 RANCHO CUCAMONGA, CA 91730
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported

FOSECO INC (Continued) **1000200995**

Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 1982-02-03 00:00:00.0
Site name: FOSECO CUCAMONGA
Classification: Large Quantity Generator

Violation Status: No violations found

ENVIROSTOR:
Name: FOSECO, INC
Address: 7TH STREET OFF ROCHESTER AVENUE
City,State,Zip: RANCHO CUCAMONGA, CA 91730
Facility ID: 36280006
Status: Refer: Other Agency
Status Date: 08/22/1995
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Cypress
Assembly: Not reported
Senate: Not reported
Special Program: * RCRA 3012 - Past Haz Waste Disp Inven Site
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 0

FOSECO INC (Continued) **1000200995**

Longitude: 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * HYDROCARBON SOLVENTS * OTHER ORGANIC SOLIDS * POLYMERIC RESIN WASTE
Not reported
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD053844395
Alias Type: EPA Identification Number
Alias Name: 110008262192
Alias Type: EPA (FRS #)
Alias Name: 36280006
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 10/12/1983
Comments: FACILITY IDENTIFIED ERRIS

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 12/21/1982
Comments: FACILITY IDENTIFIED WADE'S QUESTIONNAIRE (1980) CHEMICAL MFG

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/01/1995
Comments: DATABASE VALIDATION CONFIRMS NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/21/1984
Comments: T/C WITH W.R.RAE, FOSECO, (216)826-4548, 6/14/84 - 1) SOURCE ACT: MFG OF FOUNDRY SUPPLIES. 2) FAC TYPE: 40 FOOT DISPOSAL DISCHARGE. 3) WASTE TYPE: PROCESS EFFLU- ENT ON SURFACE AS SOLIDS. COMPOS-UREA, PHENOLIC TYPE RESIN WASTES & POSSIBLY FORMALDEHYDE 500 TO 700 GAL/MONTH, 99% WATER AND SAND; CURRENTLY CO OPERATES A WAREHOUSE. FINAL STRATEGY RECOMMENDATION: SAMPLING FOR MIGRATION OF EFFLUENT OFFSITE SUBMIT TO EPA PRELIM ASSESS DONE RCRA 3012

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST UST:
Name: FOSECO INC

FOSECO INC (Continued) **1000200995**

Address:	7TH STREET OFF ROCHESTER
City,State,Zip:	RANCHO CUCAMONGA, CA 91730
File Number:	00029EC2
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029EC2.pdf
Region:	STATE
Facility ID:	00000021440
Facility Type:	Other
Other Type:	STEELMILL AND FOUNDR
Contact Name:	LUIS NEZARRO
Telephone:	7149876257
Owner Name:	FOSECO, INC.
Owner Address:	20200 SHELDON ROAD
Owner City,St,Zip:	CLEVELAND, OH 44142
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

M67 **CMC REBAR ETIWANDA** **ENVIROSTOR** **S105557570**
NW **12451 ARROW RTE** **VCP** **N/A**
1/4-1/2 **ETIWANDA, CA 91739** **CERS HAZ WASTE**
0.442 mi. **NPDES**
2333 ft. **Site 1 of 5 in cluster M** **San Bern. Co. Permit**
CIWQS
Relative: Higher **CERS**

Actual: 1164 ft.

ENVIROSTOR:

Name:	FONTANA STEEL, INC.
Address:	12451 ARROW ROUTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility ID:	36340066
Status:	No Further Action
Status Date:	12/22/2000
Site Code:	400885
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Daniel Zogaib

CMC REBAR ETIWANDA (Continued) **S105557570**

Supervisor: Emad Yemut
Division Branch: Cleanup Cypress
Assembly: 40
Senate: 23
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.09794
Longitude: -117.5341
APN: 022912135
Past Use: MANUFACTURING - METAL
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: No Contaminants found
Potential Description: NMA
Alias Name: FONTANA STEEL, INC.
Alias Type: Alternate Name
Alias Name: 022912135
Alias Type: APN
Alias Name: 110008061649
Alias Type: EPA (FRS #)
Alias Name: 400885
Alias Type: Project Code (Site Code)
Alias Name: 36340066
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/20/2001
Comments: PEA completed with no further action (NFA) determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 12/22/2000
Comments: DTSC entered into a Voluntary Cleanup Agreement (Docket Number HSA-A 00/01-153) with Fontana Steel, Inc. to provide oversight for a Preliminary Endangerment Assessment for the site.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Name: FONTANA STEEL, INC.
Address: 12451 ARROW ROUTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Facility ID: 36340066
Site Type: Voluntary Cleanup

CMC REBAR ETIWANDA (Continued) **S105557570**

Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Daniel Zogaib
Supervisor:	Emad Yemut
Division Branch:	Cleanup Cypress
Site Code:	400885
Assembly:	40
Senate:	23
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	12/22/2000
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	34.09794 / -117.5341
APN:	022912135
Past Use:	MANUFACTURING - METAL
Potential COC:	NONE SPECIFIED,31000
Confirmed COC:	31000
Potential Description:	NMA
Alias Name:	FONTANA STEEL, INC.
Alias Type:	Alternate Name
Alias Name:	022912135
Alias Type:	APN
Alias Name:	110008061649
Alias Type:	EPA (FRS #)
Alias Name:	400885
Alias Type:	Project Code (Site Code)
Alias Name:	36340066
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	12/20/2001
Comments:	PEA completed with no further action (NFA) determination.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	12/22/2000
Comments:	DTSC entered into a Voluntary Cleanup Agreement (Docket Number HSA-A 00/01-153) with Fontana Steel, Inc. to provide oversight for a Preliminary Endangerment Assessment for the site.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported

CMC REBAR ETIWANDA (Continued) **S105557570**

Schedule Revised Date: Not reported

CERS HAZ WASTE:
Name: CMC REBAR ETIWANDA
Address: 12451 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 390241
CERS ID: 10039324
CERS Description: Hazardous Waste Generator

NPDES:
Name: CMC REBAR ETIWANDA
Address: 12451 ARROW RTE
City,State,Zip: ETIWANDA, CA 91739
Facility Status: Active
NPDES Number: CAS000001
Region: 8
Agency Number: 0
Regulatory Measure ID: 213422
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 8 36I013647
Regulatory Measure Type: Enrollee
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 12/31/1997
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: PO Box 2219
Discharge Name: Fontana Steel
Discharge City: Rancho Cucamonga
Discharge State: California
Discharge Zip: 91729
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:
NPDES Number: Not reported
Status: Not reported
Agency Number: Not reported
Region: 8
Regulatory Measure ID: 213422
Order Number: Not reported
Regulatory Measure Type: Industrial
Place ID: Not reported
WDID: 8 36I013647
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported

CMC REBAR ETIWANDA (Continued) **S105557570**

Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	12/31/1997
Status:	Active
Status Date:	12/31/1997
Place Size:	15.31
Place Size Unit:	Acres
Contact:	Eduardo Medina
Contact Title:	Not reported
Contact Phone:	909-899-9993
Contact Phone Ext:	Not reported
Contact Email:	eduardo.medina@cmc.com
Operator Name:	Fontana Steel
Operator Address:	PO Box 2219
Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91729
Operator Contact:	Adam Raines
Operator Contact Title:	Not reported
Operator Contact Phone:	909-803-1555
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Adam.Raines@cmc.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-899-9993
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Ana River
Certifier:	Adam Raines
Certifier Title:	Operations Manager
Certification Date:	24-JUL-15

CMC REBAR ETIWANDA (Continued) **S105557570**

Primary Sic:	3499-Fabricated Metal Products, NEC
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213422
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I013647
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	12/31/1997
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Fontana Steel
Discharge Address:	PO Box 2219
Discharge City:	Rancho Cucamonga
Discharge State:	California
Discharge Zip:	91729
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported

CMC REBAR ETIWANDA (Continued) **S105557570**

Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	CMC REBAR ETIWANDA
Address:	12451 ARROW RTE
City,State,Zip:	ETIWANDA, CA 91739
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36I013647
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	12/31/1997
Operator Name:	Fontana Steel
Operator Address:	PO Box 2219
Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91729

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported

CMC REBAR ETIWANDA (Continued) **S105557570**

Region:	8
Regulatory Measure ID:	213422
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I013647
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	12/31/1997
Status:	Active
Status Date:	12/31/1997
Place Size:	15.31
Place Size Unit:	Acres
Contact:	Eduardo Medina
Contact Title:	Not reported
Contact Phone:	909-899-9993
Contact Phone Ext:	Not reported
Contact Email:	eduardo.medina@cmc.com
Operator Name:	Fontana Steel
Operator Address:	PO Box 2219
Operator City:	Rancho Cucamonga
Operator State:	California
Operator Zip:	91729
Operator Contact:	Adam Raines
Operator Contact Title:	Not reported
Operator Contact Phone:	909-803-1555
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Adam.Raines@cmc.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-899-9993
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported

CMC REBAR ETIWANDA (Continued) **S105557570**

Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Ana River
Certifier:	Adam Raines
Certifier Title:	Operations Manager
Certification Date:	24-JUL-15
Primary Sic:	3499-Fabricated Metal Products, NEC
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213422
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I013647
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	12/31/1997
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Fontana Steel
Discharge Address:	PO Box 2219
Discharge City:	Rancho Cucamonga
Discharge State:	California
Discharge Zip:	91729
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported

CMC REBAR ETIWANDA (Continued) **S105557570**

Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	CMC REBAR ETIWANDA
Address:	12451 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0003266
Owner:	CMS STEEL FABRICATORS INC
Permit Number:	PT0004318
Permit Category:	HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	10/31/2020

Name:	CMC REBAR ETIWANDA
Address:	12451 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0003266
Owner:	CMS STEEL FABRICATORS INC
Permit Number:	PT0004319
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE

CMC REBAR ETIWANDA (Continued) **S105557570**

Expiration Date: 10/31/2020

Name: CMC REBAR ETIWANDA
Address: 12451 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0003266
Owner: CMS STEEL FABRICATORS INC
Permit Number: PT0036721
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 10/31/2017

Name: CMC REBAR ETIWANDA
Address: 12451 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0003266
Owner: CMS STEEL FABRICATORS INC
Permit Number: PT0010905
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 10/31/2017

Name: CMC REBAR ETIWANDA
Address: 12451 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0003266
Owner: CMS STEEL FABRICATORS INC
Permit Number: PT0025592
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 10/31/2013

CIWQS:

Name:	CMC REBAR ETIWANDA
Address:	12451 ARROW RTE
City,State,Zip:	ETIWANDA, CA 91739
Agency:	Fontana Steel
Agency Address:	PO Box 2219, Rancho Cucamonga, CA 91729
Place/Project Type:	Industrial - Fabricated Metal Products, NEC
SIC/NAICS:	3499
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I013647
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	12/31/1997
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported

CMC REBAR ETIWANDA (Continued) **S105557570**

TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.09905
Longitude:	-117.53413

CERS:

Name:	CMC REBAR ETIWANDA
Address:	12451 ARROW RTE
City,State,Zip:	ETIWANDA, CA 91739
Site ID:	20526
CERS ID:	224773
CERS Description:	Industrial Facility Storm Water

Evaluation:

Eval General Type:	Case Development Inspection
Eval Date:	05-19-2009
Violations Found:	No
Eval Type:	Industrial Storm Water Enforcement Follow-up
Eval Notes:	Meeting of four companies to address pollutant loads issues. Staff met with four companies to address the undersized stormwater treatment system on Tamco's property, due to the high stormwater run-offs draining towards it from the adjacent properties to the north, north-east, and eastern borders. At least two representatives from each company are present at the meeting to discuss Tamco's treatment system expansion, or each company will establish its own treatment system its property stormwater run-off. Stormwater samples analysis report from annual reports submitted to the Board by the four companies for 2004-2005 to 2007-2008 were presented by RB staff for discussion. Based on the analytical results, each company confirmed the need for corrective action and and acknowledged that the issues will be dealt with swifty.
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS

Affiliation:

Affiliation Type Desc:	Technical Contact
Entity Name:	PAT JOHN
Entity Title:	Not reported
Affiliation Address:	PO BOX 2219
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	6023967120

Affiliation Type Desc:	Owner/Operator
Entity Name:	Fontana Steel
Entity Title:	Operator
Affiliation Address:	PO Box 2219
Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91729
Affiliation Phone:	Not reported

CMC REBAR ETIWANDA (Continued) **S105557570**

Affiliation Type Desc:	Company Official
Entity Name:	Adam Raines
Entity Title:	Operations Manager
Affiliation Address:	PO BOX 2219
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Company
Entity Name:	COMMERCIAL METALS CO
Entity Title:	Not reported
Affiliation Address:	PO BOX 2219
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported

Affiliation Type Desc:	Public Contact
Entity Name:	Adam Raines
Entity Title:	Not reported
Affiliation Address:	PO BOX 2219
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	9098031555

Name:	CMC REBAR ETIWANDA
Address:	12451 ARROW RTE
City,State,Zip:	ETIWANDA, CA 91739
Site ID:	20526
CERS ID:	91739FNTNS12451
CERS Description:	Toxic Release Inventory

Evaluation:

Eval General Type:	Case Development Inspection
Eval Date:	05-19-2009
Violations Found:	No
Eval Type:	Industrial Storm Water Enforcement Follow-up
Eval Notes:	Meeting of four companies to address pollutant loads issues. Staff met with four companies to address the undersized stormwater treatment system on Tamco's property, due to the high stormwater run-offs draining towards it from the adjacent properties to the north, north-east, and eastern borders. At least two representatives from each company are present at the meeting to discuss Tamco's treatment system expansion, or each company will establish its own treatment system its property stormwater run-off. Stormwater samples analysis report from annual reports submitted to the Board by the four companies for 2004-2005 to 2007-2008 were presented by RB staff for discussion. Based on the analytical results, each company confirmed the need for corrective action and and acknowledged that the issues will be dealt with swifty.
Eval Division:	Water Boards
Eval Program:	INDSTW

CMC REBAR ETIWANDA (Continued) **S105557570**

Eval Source: SMARTS

Affiliation:

Affiliation Type Desc: Technical Contact
Entity Name: PAT JOHN
Entity Title: Not reported
Affiliation Address: PO BOX 2219
Affiliation City: RANCHO CUCAMONGA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91739
Affiliation Phone: 6023967120

Affiliation Type Desc: Owner/Operator
Entity Name: Fontana Steel
Entity Title: Operator
Affiliation Address: PO Box 2219
Affiliation City: Rancho Cucamonga
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91729
Affiliation Phone: Not reported

Affiliation Type Desc: Company Official
Entity Name: Adam Raines
Entity Title: Operations Manager
Affiliation Address: PO BOX 2219
Affiliation City: RANCHO CUCAMONGA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91739
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Company
Entity Name: COMMERCIAL METALS CO
Entity Title: Not reported
Affiliation Address: PO BOX 2219
Affiliation City: RANCHO CUCAMONGA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91739
Affiliation Phone: Not reported

Affiliation Type Desc: Public Contact
Entity Name: Adam Raines
Entity Title: Not reported
Affiliation Address: PO BOX 2219
Affiliation City: RANCHO CUCAMONGA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91739
Affiliation Phone: 9098031555

Name: CMC REBAR ETIWANDA
Address: 12451 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739

CMC REBAR ETIWANDA (Continued) **S105557570**

Site ID: 390241
CERS ID: 10039324
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 390241
Site Name: CMC Rebar Etiwanda
Violation Date: 07-09-2013
Citation: HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description: Failure to prepare, maintain, and submit accurate CUPA UST Operating Permit Application for Facility information and/or Tank information.
Violation Notes: Returned to compliance on 07/09/2013. Upgrade Tank form. Vent lines are not double-walled corrected facility and county forms.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 390241
Site Name: CMC Rebar Etiwanda
Violation Date: 06-15-2017
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 07/21/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 390241
Site Name: CMC Rebar Etiwanda
Violation Date: 07-09-2013
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: Failure to test the spill bucket annually.
Violation Notes: Returned to compliance on 07/09/2013. Violation 333: Direct bury overspill bucket was visually failing. Direct bury spill buckets must be precision tested using a 0.002" threshold (i.e., Incon). If the bucket fails, it must be upgraded to overspill within a secondary containment. Within 7 days provide passing spill bucket results or apply for permit to upgrade overspill containment. Drain valve and PhilTite o-ring replaced. Retested with Incon passed.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 390241
Site Name: CMC Rebar Etiwanda
Violation Date: 07-09-2013
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the underground storage tank and/or failure to maintain written monitoring and maintenance records on site, or off site if approved by the CUPA, for a period of 3 years, 6 1/2 years for cathodic protection, and 5 years for written performance claims pertaining to release detection systems

CMC REBAR ETIWANDA (Continued) **S105557570**

	and calibration and maintenance records for such systems.
Violation Notes:	Returned to compliance on 07/10/2013. Violation 304: Monitor must be checked daily to document presence or absence of alarms. Within 7 days, provide a copy of form to be used and placed by the Ronan monitor and identify individual(s) responsible for alarm verification.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	390241
Site Name:	CMC Rebar Etiwanda
Violation Date:	06-15-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to prepare and implement a Spill Prevention Control and Countermeasure (SPCC) Plan.
Violation Notes:	Returned to compliance on 07/03/2017. Not required. Facility decreased amount of petroleum based products to 1110 gallons per email statement from Safety Coordinator - Eduardo Medina.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	390241
Site Name:	CMC Rebar Etiwanda
Violation Date:	06-15-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to implement the SPCC Plan.
Violation Notes:	Returned to compliance on 07/03/2017. Not required. Facility decreased amount of petroleum based products to 1110 gallons per email statement from Safety Coordinator - Eduardo Medina.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	390241
Site Name:	CMC Rebar Etiwanda
Violation Date:	06-15-2017
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 07/21/2017.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	390241
Site Name:	CMC Rebar Etiwanda
Violation Date:	06-15-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/21/2017. Failure to note accumulation start date on labels (CCR 66262.34(f)(2))
Violation Division:	San Bernardino County Fire Department

CMC REBAR ETIWANDA (Continued) **S105557570**

Violation Program: HW
Violation Source: CERS

Site ID: 390241
Site Name: CMC Rebar Etiwanda
Violation Date: 06-15-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/21/2017. Failure to label hazardous waste containers (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 390241
Site Name: CMC Rebar Etiwanda
Violation Date: 06-15-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/21/2017. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 390241
Site Name: CMC Rebar Etiwanda
Violation Date: 07-09-2013
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 07/10/2013. Upload certificate of financial responsibility for 2013.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-15-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION, FILE PREPARATION/REVIEW.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-15-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION, FILE PREPARATION/REVIEW.
Eval Division: San Bernardino County Fire Department
Eval Program: HW

CMC REBAR ETIWANDA (Continued) **S105557570**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-17-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-17-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-11-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: UST WASTE INSPECTION- PIOLT
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-15-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION, FILE PREPARATION/REVIEW.
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-09-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: cmc rebar
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 390241
Site Name: CMC Rebar Etiwanda
Site Address: 12451 ARROW RTE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 06-15-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported

CMC REBAR ETIWANDA (Continued) **S105557570**

Enf Action Division: San Bernardino County Fire Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 390241
Site Name: CMC Rebar Etiwanda
Site Address: 12451 ARROW RTE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 06-15-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 390241
Site Name: CMC Rebar Etiwanda
Site Address: 12451 ARROW RTE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 06-15-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 390241
Site Name: CMC Rebar Etiwanda
Site Address: 12451 ARROW RTE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 07-09-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported

CMC REBAR ETIWANDA (Continued) **S105557570**

Affiliation Address:	12451 ARROW ROUTE
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Adam Raines
Entity Title:	Op's and Commercial Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	CMC Rebar Southern CA
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Eduardo A. Medina
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	ED MEDINA
Entity Title:	Not reported
Affiliation Address:	12451 ARROW ROUTE
Affiliation City:	ETIWANDA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	CMS STEEL FABRICATORS INC
Entity Title:	Not reported
Affiliation Address:	6565 NORTH MAC ARTHUR BLVD STE #800
Affiliation City:	IRVING
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	75039
Affiliation Phone:	(214) 689-4300

CMC REBAR ETIWANDA (Continued) **S105557570**

Affiliation Type Desc:	Operator
Entity Name:	CMC Rebar Etiwanda
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 899-9993

N68 **TAMCO** **ENVIROSTOR** **S101661358**
NNW **12549 ARROW HIGHWAY** **N/A**
1/4-1/2 **RANCHO CUCAMONGA, CA 91739**
0.443 mi.
2338 ft. **Site 1 of 4 in cluster N**

Relative:
Higher

Actual:
1164 ft.

ENVIROSTOR:

Name:	TAMCO
Address:	12549 ARROW HIGHWAY
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility ID:	36330050
Status:	Refer: Other Agency
Status Date:	08/31/1995
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	40
Senate:	23
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.09916
Longitude:	-117.5311
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	* CONTAMINATED SOIL * BAGHOUSE WASTE Lead Cadmium and compounds Chromium VI Nickel
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	TAMCO
Alias Type:	Alternate Name
Alias Name:	36330050
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	07/21/1995

TAMCO (Continued) **S101661358**

Comments: CERCLA PA conducted by EPA. No further action by EPA. No further action by DTSC. No evidence of release. It is a generator of hazardous waste in the County's jurisdiction. Referred to San Bernardino County.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

M69 **TAMCO** **SEMS-ARCHIVE** **1000174704**
NNW **12459 B ARROW ROUTE** **RCRA-LQG** **CAD982361404**
1/4-1/2 **RANCHO CUCAMONGA, CA 91739** **ENVIROSTOR**
0.448 mi. **LUST**
2368 ft. **Site 2 of 5 in cluster M** **CPS-SLIC**
UST
Relative: **VCP**
Higher **CERS HAZ WASTE**
SWEEPS UST
Actual: **HIST UST**
1164 ft. **EPA WATCH LIST**
Cortese
HIST CORTESE
San Bern. Co. Permit
CERS

SEMS Archive:
Site ID: 0904936
EPA ID: CAD982361404
Name: TAMCO
Address: 12459 ARROW HIGHWAY
Address 2: Not reported
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Cong District: 36
FIPS Code: 06071
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:
Region: 09
Site ID: 0904936
EPA ID: CAD982361404
Site Name: TAMCO
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1994-06-21 04:00:00
Qual: Not reported

TAMCO (Continued) **1000174704**

Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0904936
EPA ID: CAD982361404
Site Name: TAMCO
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1994-06-21 04:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 09
Site ID: 0904936
EPA ID: CAD982361404
Site Name: TAMCO
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1993-03-29 05:00:00
Finish Date: 1993-03-29 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf

RCRA-LQG:
Date form received by agency: 2020-03-03 00:00:00.0
Facility name: TAMCO
Facility address: 12459-B ARROW ROUTE
RANCHO CUCAMONGA, CA 91739-0000
EPA ID: CAD982361404
Mailing address: P.O. BOX 325
RANCHO CUCAMONGA, CA 91739
Contact: CINTHIA AYALA HEREDIA
Contact address: P.O. BOX 325
RANCHO CUCAMONGA, CA 91739
Contact country: US
Contact telephone: 909-646-7851
Contact email: CINTHIA.HEREDIA@CMC.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1

TAMCO (Continued) **1000174704**

kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	TAMCO
Owner/operator address:	P.O. BOX 325 RANCHO CUCAMONGA, CA 91739
Owner/operator country:	US
Owner/operator telephone:	909-899-0660
Owner/operator email:	JESSE.WHITE@GERDAU.COM
Owner/operator fax:	Not reported
Owner/operator extension:	7835
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	1974-08-02 00:00:00.
Owner/Op end date:	Not reported

Owner/operator name:	TAMCO
Owner/operator address:	ARROW ROUTE RANCHO CUCAMONGA, CA 91739
Owner/operator country:	US
Owner/operator telephone:	909-899-0660
Owner/operator email:	JESSE.WHITE@GERDAU.COM
Owner/operator fax:	Not reported
Owner/operator extension:	7835
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	1974-08-02 00:00:00.
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	Not reported
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	2018-08-24 00:00:00.0
Site name:	TAMCO
Classification:	Large Quantity Generator

Date form received by agency:	2016-02-29 00:00:00.0

TAMCO (Continued) **1000174704**

Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 2014-03-01 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 2012-02-23 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 2011-04-27 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 2008-02-15 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 2006-03-30 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 2004-02-20 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 2002-02-22 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 2000-10-12 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 1999-04-15 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 1998-02-05 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 1996-09-01 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 1996-03-20 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 1994-03-31 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 1992-02-28 00:00:00.0
Site name: TAMCO

TAMCO (Continued) **1000174704**

Classification: Large Quantity Generator

Date form received by agency: 1983-10-05 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Date form received by agency: 1983-10-05 00:00:00.0
Site name: TAMCO
Classification: Large Quantity Generator

Hazardous Waste Summary:

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 222
. Waste name: Oil/water separation sludge

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 291
. Waste name: Latex waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 461
. Waste name: Degreasing sludge

. Waste code: 491
. Waste name: Unspecified sludge waste

. Waste code: 591
. Waste name: Baghouse waste

TAMCO (Continued) **1000174704**

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: K061
. Waste name: EMISSION CONTROL DUST/SLUDGE FROM THE PRIMARY PRODUCTION OF STEEL IN ELECTRIC FURNACES.

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE

TAMCO (Continued) **1000174704**

FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 500

Waste code: D004
Waste name: ARSENIC
Amount (Lbs): 405400

Waste code: D005
Waste name: BARIUM
Amount (Lbs): 500

Waste code: D006
Waste name: CADMIUM
Amount (Lbs): 500

Waste code: D008
Waste name: LEAD
Amount (Lbs): 20

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 500

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 500

Waste code: K061
Waste name: EMISSION CONTROL DUST/SLUDGE FROM THE PRIMARY PRODUCTION OF STEEL IN ELECTRIC FURNACES.
Amount (Lbs): 2721200

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2006-06-05 00:00:00.0
Date achieved compliance: 2006-06-05 00:00:00.0
Violation lead agency: State

TAMCO (Continued) **1000174704**

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2006-06-05 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2005-01-20 00:00:00.0
Date achieved compliance: 2007-05-02 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 2006-09-27 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 55860
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2005-01-20 00:00:00.0
Date achieved compliance: 2007-05-02 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2005-07-27 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2005-01-20 00:00:00.0
Date achieved compliance: 2007-05-02 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 2007-05-02 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 49500
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2003-10-16 00:00:00.0
Date achieved compliance: 2007-05-02 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported

TAMCO (Continued) **1000174704**

Enforcement action date: 2003-10-16 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2003-10-16 00:00:00.0
Date achieved compliance: 2007-05-02 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 2006-09-27 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 55860
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2003-10-16 00:00:00.0
Date achieved compliance: 2007-05-02 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 2007-05-02 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 49500
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 2018-06-15 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 2013-12-02 00:00:00.0
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2012-03-21 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2007-05-02 00:00:00.0
Evaluation: NOT A SIGNIFICANT NON-COMPLIER

TAMCO (Continued) **1000174704**

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2006-06-05 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 2006-06-05 00:00:00.0
Evaluation lead agency: Local

Evaluation date: 2005-01-20 00:00:00.0
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - General
Date achieved compliance: 2007-05-02 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2003-10-16 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2003-10-16 00:00:00.0
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Generators - General
Date achieved compliance: 2007-05-02 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2003-08-06 00:00:00.0
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2001-11-27 00:00:00.0
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

ENVIROSTOR:
Name: AMERON/STEEL & WIRE PROPERTY
Address: 12459 ARROW ROUTE
City,State,Zip: ETIWANDA, CA 91739
Facility ID: 36340064
Status: No Further Action
Status Date: 04/23/1996
Site Code: Not reported
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: Not reported
NPL: NO
Regulatory Agencies: DTSC
Lead Agency: DTSC
Program Manager: Not reported
Supervisor: Allan Plaza
Division Branch: Cleanup Chatsworth
Assembly: 40

TAMCO (Continued) **1000174704**

Senate: 23
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.09408
Longitude: -117.5303
APN: 022913119
Past Use: RECYCLING - SCRAP METAL, VEHICLE MAINTENANCE
Potential COC: * HYDROCARBON SOLVENTS * Metals - Other Inorganic Solid Waste * UNSPECIFIED SOLVENT MIXTURES * OTHER INORGANIC SOLID WASTE Lead Cadmium and compounds
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: AMERON STEEL & WIRE PROPERTY
Alias Type: Alternate Name
Alias Name: INDUSTRIAL WIRE PRODUCTS, INC.
Alias Type: Alternate Name
Alias Name: IWP
Alias Type: Alternate Name
Alias Name: 022913119
Alias Type: APN
Alias Name: 110033615960
Alias Type: EPA (FRS #)
Alias Name: 400526
Alias Type: Site Code - Historical
Alias Name: 36340064
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/11/1997
Comments: DTSC considered the provided information as a PEA Equivalent Reports and issued a No Further Action Determination at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/08/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 06/08/1995
Comments: Due to evidence of contamination, DTSC recommends a PEA. A Voluntary Cleanup Agreement has been signed between DTSC and RP to remediate the site. The purpose of the agreement is for DTSC to provide an oversight for a Removal Action Workplan for the site based on health-based risk assessment (HRA).

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported

TAMCO (Continued) **1000174704**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST REG 8:

Name:	TAMCO
Address:	12459 ARROW HWY
City:	RANCHO CUCAMONGA
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083602379T
Local Case Num:	93063
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Cross Street:	Not reported
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100309
How Stopped Date:	11/4/1993
Enter Date:	1/14/1994
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	11/4/1993
Enforcement Date:	Not reported
Close Date:	5/11/1994
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	1/14/1994
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Yes
Oversite Program:	LUST
Latitude:	34.1007265
Longitude:	-117.5235672
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	CAB

TAMCO (Continued) **1000174704**

Staff Initials: LH6
Lead Agency: Local Agency
Local Agency: 36000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: Not reported

SLIC REG 8:
Name: TAMCO
Address: 12459 ARROW HIGHWAY
City: ETIWANDA
Type: Soil
Facility Status: Closed
Staff: XXX
Substance: LEAD
Lead Agency: Regional Board
Location Code: Not reported
Thomas Bros Code: Not reported

CPS-SLIC:
Name: TAMCO
Address: 12459 ARROW HIGHWAY
City,State,Zip: ETIWANDA, CA 91739
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 11/07/1990
Global Id: SLT8R1914124
Lead Agency: SANTA ANA RWQCB (REGION 8)
Lead Agency Case Number: Not reported
Latitude: 34.126410793
Longitude: -117.52154151
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: SLT8R191
File Location: Regional Board
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

UST:
Name: TAMCO
Address: 12459 ARROW HWY
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Facility ID: 86008874
Permitting Agency: SAN BERNARDINO COUNTY
Latitude: 34.09906
Longitude: -117.53427

VCP:

TAMCO (Continued) **1000174704**

Name:	AMERON/STEEL & WIRE PROPERTY
Address:	12459 ARROW ROUTE
City,State,Zip:	ETIWANDA, CA 91739
Facility ID:	36340064
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	Not reported
National Priorities List:	NO
Cleanup Oversight Agencies:	DTSC
Lead Agency:	DTSC
Lead Agency Description:	* DTSC
Project Manager:	Not reported
Supervisor:	Allan Plaza
Division Branch:	Cleanup Chatsworth
Site Code:	Not reported
Assembly:	40
Senate:	23
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	04/23/1996
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	34.09408 / -117.5303
APN:	022913119
Past Use:	RECYCLING - SCRAP METAL, VEHICLE MAINTENANCE
Potential COC:	10009, 10034, 10198, 20011, 30013, 30108
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	AMERON STEEL & WIRE PROPERTY
Alias Type:	Alternate Name
Alias Name:	INDUSTRIAL WIRE PRODUCTS, INC.
Alias Type:	Alternate Name
Alias Name:	IWP
Alias Type:	Alternate Name
Alias Name:	022913119
Alias Type:	APN
Alias Name:	110033615960
Alias Type:	EPA (FRS #)
Alias Name:	400526
Alias Type:	Site Code - Historical
Alias Name:	36340064
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	06/11/1997
Comments:	DTSC considered the provided information as a PEA Equivalent Reports and issued a No Further Action Determination at the site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	06/08/1995
Comments:	Not reported

TAMCO (Continued) **1000174704**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 06/08/1995
Comments: Due to evidence of contamination, DTSC recommends a PEA. A Voluntary Cleanup Agreement has been signed between DTSC and RP to remediate the site. The purpose of the agreement is for DTSC to provide an oversight for a Removal Action Workplan for the site based on health-based risk assessment (HRA).

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS HAZ WASTE:
Name: TI WIRE
Address: 12459 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 404054
CERS ID: 10040527
CERS Description: Hazardous Waste Generator

Name: TI WIRE
Address: 12459 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 404054
CERS ID: 10040527
CERS Description: RCRA LQ HW Generator

SWEEPS UST:
Name: TAMCO
Address: 12459 ARROW HWY
City: ETIWANDA
Status: Active
Comp Number: 8874
Number: 9
Board Of Equalization: 44-020613
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-008874-000005
Tank Status: A
Capacity: 10000
Active Date: 08-29-88
Tank Use: PETROLEUM
STG: P
Content: DIESEL
Number Of Tanks: 2

TAMCO (Continued) **1000174704**

Name:	TAMCO
Address:	12459 ARROW HWY
City:	ETIWANDA
Status:	Active
Comp Number:	8874
Number:	9
Board Of Equalization:	44-020613
Referral Date:	03-24-92
Action Date:	03-24-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-008874-000006
Tank Status:	A
Capacity:	2000
Active Date:	08-29-88
Tank Use:	PETROLEUM
STG:	P
Content:	REGULAR UNLE
Number Of Tanks:	Not reported

Name:	TAMCO
Address:	12459 ARROW HWY
City:	ETIWANDA
Status:	Not reported
Comp Number:	8874
Number:	Not reported
Board Of Equalization:	44-020613
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-008874-000001
Tank Status:	Not reported
Capacity:	50000
Active Date:	Not reported
Tank Use:	OIL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	4

Name:	TAMCO
Address:	12459 ARROW HWY
City:	ETIWANDA
Status:	Not reported
Comp Number:	8874
Number:	Not reported
Board Of Equalization:	44-020613
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-008874-000002
Tank Status:	Not reported
Capacity:	50000
Active Date:	Not reported
Tank Use:	OIL
STG:	PRODUCT

TAMCO (Continued) **1000174704**

Content: FUEL OIL
Number Of Tanks: Not reported

Name: TAMCO
Address: 12459 ARROW HWY
City: ETIWANDA
Status: Not reported
Comp Number: 8874
Number: Not reported
Board Of Equalization: 44-020613
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-008874-000003
Tank Status: Not reported
Capacity: 50000
Active Date: Not reported
Tank Use: OIL
STG: PRODUCT
Content: FUEL OIL
Number Of Tanks: Not reported

Name: TAMCO
Address: 12459 ARROW HWY
City: ETIWANDA
Status: Not reported
Comp Number: 8874
Number: Not reported
Board Of Equalization: 44-020613
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-008874-000004
Tank Status: Not reported
Capacity: 50000
Active Date: Not reported
Tank Use: OIL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

HIST UST:
Name: TAMCO
Address: 12459 ARROW HWY
City,State,Zip: ETIWANDA, CA 91739
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000015449
Facility Type: Other
Other Type: STEEL MILL
Contact Name: Not reported
Telephone: 7149872521
Owner Name: TAMCO
Owner Address: 12459 ARROW HIGHWAY

TAMCO (Continued) **1000174704**

Owner City,St,Zip: ETIWANDA, CA 91739
Total Tanks: 0004

Tank Num: 001
Container Num: 004
Year Installed: 1975
Tank Capacity: 00050000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, None

Tank Num: 002
Container Num: 003
Year Installed: 1975
Tank Capacity: 00050000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, None

Tank Num: 003
Container Num: 002
Year Installed: 1975
Tank Capacity: 00050000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, None

Tank Num: 004
Container Num: 001
Year Installed: 1975
Tank Capacity: 00050000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, None

EPA WATCH LIST:
Facility ID: CAD982361404
Program: RCRA Facilities
List date: December 2012 Watch List

Facility ID: CAD982361404
Program: RCRA Facilities
List date: June 2013 RCRA Watch List

Facility ID: CAD982361404
Program: RCRA Facilities
List date: April 2013 RCRA Watch List

Facility ID: CAD982361404
Program: RCRA Facilities
List date: March 2013 RCRA Watch List

Facility ID: CAD982361404

TAMCO (Continued) **1000174704**

Program: RCRA Facilities
List date: May 2013 RCRA Watch List

Facility ID: CAD982361404
Program: RCRA Facilities
List date: August 2013 Watch List

Facility ID: CAD982361404
Program: RCRA Facilities
List date: July 2013 Watch List

CORTESE:
Name: TAMCO
Address: 12459 ARROW HWY
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100309
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: TAMCO
edr_fadd1: 12459 ARROW
City,State,Zip: ETIWANDA, CA 91769
Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083602379T

San Bern. Co. Permit:
Name: TI WIRE
Address: 12459 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0003904
Owner: TREE ISLAND INDUSTRIES LTD
Permit Number: PT0004840
Permit Category: RCRA LARGE QUANTITY GENERATOR
Facility Status: ACTIVE

TAMCO (Continued) **1000174704**

Expiration Date: 05/31/2020

Name: TI WIRE
Address: 12459 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0003904
Owner: TREE ISLAND INDUSTRIES LTD
Permit Number: PT0004839
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 05/31/2020

Name: TI WIRE
Address: 12459 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0003904
Owner: TREE ISLAND INDUSTRIES LTD
Permit Number: PT0036816
Permit Category: RCRA LARGE QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/2018

Name: TI WIRE
Address: 12459 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0003904
Owner: TREE ISLAND INDUSTRIES LTD
Permit Number: PT0020082
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 05/31/2014

Name: TUBE CITY IMS
Address: 12459 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0005052
Owner: TUBE CITY IMS
Permit Number: PT0007227
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 11/30/2012

Name: TUBE CITY IMS
Address: 12459 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0005052
Owner: TUBE CITY IMS
Permit Number: PT0024299
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 11/30/2012

TAMCO (Continued) **1000174704**

Name: TUBE CITY IMS
Address: 12459 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0005052
Owner: TUBE CITY IMS
Permit Number: PT0007226
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2012

Name: TI WIRE
Address: 12459 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0003904
Owner: TREE ISLAND INDUSTRIES LTD
Permit Number: PT0004837
Permit Category: ABOVEGROUND PETROLEUM STORAGE (AST) (SPCC)
Facility Status: INACTIVE
Expiration Date: 05/31/2008

CERS:
Name: TI WIRE
Address: 12459 ARROW RTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 404054
CERS ID: 10040527
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 404054
Site Name: TI WIRE
Violation Date: 05-08-2017
Citation: 22 CCR 31 67100.8 - California Code of Regulations, Title 22, Chapter 31, Section(s) 67100.8
Violation Description: Failure of a generator to conduct, when required, a source reduction evaluation review and plan every four years, and/or failure of the review and plan to contain all required information.
Violation Notes: Returned to compliance on 07/17/2017. SB 14 not filed by this facility.
Violation Division: San Bernardino County Fire Department
Violation Program: HWLQG
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-08-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-08-2017

TAMCO (Continued) **1000174704**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HWLQG
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Operator
Entity Name: KRISH SINGH
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 595-0439

Affiliation Type Desc: Legal Owner
Entity Name: TREE ISLAND INDUSTRIES LTD
Entity Title: Not reported
Affiliation Address: 3933 BOUNDARY RD
Affiliation City: RICHMOND
Affiliation State: BC
Affiliation Country: Canada
Affiliation Zip: 6V61TB
Affiliation Phone: (800) 663-8757

Affiliation Type Desc: Document Preparer
Entity Name: Eric Jensen
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: ERIC JENSEN
Entity Title: Not reported
Affiliation Address: 5080 HALLMARK PKWY
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92407
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 5080 HALLMARK PKWY
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92407
Affiliation Phone: Not reported

TAMCO (Continued) **1000174704**

Affiliation Type Desc:	Identification Signer
Entity Name:	Eric Jensen
Entity Title:	EH&S Compliance Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401

Affiliation Type Desc:	Parent Corporation
Entity Name:	TREE ISLAND WIRE USA, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

M70 **TI WIRE** **LUST** **S109035898**
NNW **12459 ARROW ROUTE** **AST** **N/A**
1/4-1/2 **RANCHO CUCAMONGA, CA 91739** **CERS HAZ WASTE**
0.448 mi. **CERS TANKS**
2368 ft. **Site 3 of 5 in cluster M** **CHMIRS**
NPDES
Relative: **San Bern. Co. Permit**
Higher **CIWQS**
CERS
Actual:
1164 ft.

LUST:

Name:	TAMCO
Address:	12459 ARROW HWY
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100309
Global Id:	T0607100309
Latitude:	34.1007265
Longitude:	-117.5235672
Status:	Completed - Case Closed
Status Date:	05/11/1994
Case Worker:	Not reported
RB Case Number:	083602379T
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	93063

TI WIRE (Continued) **S109035898**

Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607100309
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

LUST:
Global Id: T0607100309
Action Type: Other
Date: 11/04/1993
Action: Leak Discovery

Global Id: T0607100309
Action Type: Other
Date: 11/04/1993
Action: Leak Stopped

Global Id: T0607100309
Action Type: Other
Date: 11/19/1993
Action: Leak Reported

Global Id: T0607100309
Action Type: ENFORCEMENT
Date: 05/11/1994
Action: Closure/No Further Action Letter

LUST:
Global Id: T0607100309
Status: Open - Case Begin Date
Status Date: 11/04/1993

Global Id: T0607100309
Status: Completed - Case Closed
Status Date: 05/11/1994

AST:
Name: TERVITA LLC
Address: 12459 ARROW RTE
City/Zip: RANCHO CUCAMONGA,91739
Certified Unified Program Agencies: Not reported
Owner: TERVITA
Total Gallons: Not reported
CERSID: 10313566
Facility ID: FA0014680
Business Name: TERVITA LLC
Phone: (951) 287-8854

TI WIRE (Continued) **S109035898**

Fax:	Not reported
Mailing Address:	12459 ARROW ROUTE
Mailing Address City:	RANCHO CUCAMONGA
Mailing Address State:	CA
Mailing Address Zip Code:	91739
Operator Name:	TERVITA LLC
Operator Phone:	(951) 287-8854
Owner Phone:	(909)899-7504
Owner Mail Address:	500-140 10th Ave SE AB
Owner State:	AB
Owner Zip Code:	Not reported
Owner Country:	Canada
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	CA1000385141

CERS HAZ WASTE:

Name:	TERVITA LLC
Address:	12459 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Site ID:	74443
CERS ID:	10313566
CERS Description:	Hazardous Waste Generator

CERS TANKS:

Name:	TERVITA LLC
Address:	12459 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Site ID:	74443
CERS ID:	10313566
CERS Description:	Aboveground Petroleum Storage

CHMIRS:

Name:	Not reported
Address:	12459 ARROW HIGHWAY
City,State,Zip:	RANCHO CUCAMONGA, CA 91761
OES Incident Number:	7-1917
OES notification:	03/26/2007
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported

TI WIRE (Continued) **S109035898**

Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2007
Agency:	Tamco
Incident Date:	3/26/2007 12:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Radioactive object
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	03/26/07 at 1330 hours, truck pulled up to the Tamco Scrap metal facility and when Tamco did a radiological reading it caused an alarm. Measured at 3050cps.

NPDES:
Name: TI WIRE

TI WIRE (Continued) **S109035898**

Address:	12459 ARROW ROUTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility Status:	Active
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	213169
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 36I003788
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/03/1992
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	5080 Hallmark Pkwy
Discharge Name:	Tree Island Wire USA Inc
Discharge City:	San Bernardino
Discharge State:	California
Discharge Zip:	92407
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213169
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I003788
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/03/1992
Status:	Active
Status Date:	04/03/1992
Place Size:	17
Place Size Unit:	Acres
Contact:	Eric Jensen
Contact Title:	EHS Compliance Manager
Contact Phone:	909-590-0123

TI WIRE (Continued) **S109035898**

Contact Phone Ext:	Not reported
Contact Email:	ejensen@treeisland.com
Operator Name:	TI Wire USA
Operator Address:	3880 W Valley Blvd
Operator City:	Walnut
Operator State:	California
Operator Zip:	91789
Operator Contact:	Krish Singh
Operator Contact Title:	Operations Manager
Operator Contact Phone:	909-899-1673
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	ksingh@treeisland.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-899-1673
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Day Creek Santa Ana River
Certifier:	Eric Jensen
Certifier Title:	Environmental Health and Safety Compliance Manager
Certification Date:	20-APR-15
Primary Sic:	3315-Steel Wiredrawing and Steel Nails and Spikes
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213169
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I003788

TI WIRE (Continued) **S109035898**

Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/03/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Tree Island Wire USA Inc
Discharge Address:	5080 Hallmark Pkwy
Discharge City:	San Bernardino
Discharge State:	California
Discharge Zip:	92407
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported

TI WIRE (Continued) **S109035898**

Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	TI WIRE
Address:	12459 ARROW ROUTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36I003788
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	04/03/1992
Operator Name:	Tree Island Wire USA Inc
Operator Address:	5080 Hallmark Pkwy
Operator City:	San Bernardino
Operator State:	California
Operator Zip:	92407

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213169
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I003788
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported

TI WIRE (Continued) **S109035898**

Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/03/1992
Status:	Active
Status Date:	04/03/1992
Place Size:	17
Place Size Unit:	Acres
Contact:	Eric Jensen
Contact Title:	EHS Compliance Manager
Contact Phone:	909-590-0123
Contact Phone Ext:	Not reported
Contact Email:	ejensen@treeisland.com
Operator Name:	TI Wire USA
Operator Address:	3880 W Valley Blvd
Operator City:	Walnut
Operator State:	California
Operator Zip:	91789
Operator Contact:	Krish Singh
Operator Contact Title:	Operations Manager
Operator Contact Phone:	909-899-1673
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	ksingh@treeisland.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-899-1673
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Day Creek Santa Ana River
Certifier:	Eric Jensen
Certifier Title:	Environmental Health and Safety Compliance Manager
Certification Date:	20-APR-15
Primary Sic:	3315-Steel Wiredrawing and Steel Nails and Spikes

TI WIRE (Continued) **S109035898**

Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213169
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I003788
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/03/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Tree Island Wire USA Inc
Discharge Address:	5080 Hallmark Pkwy
Discharge City:	San Bernardino
Discharge State:	California
Discharge Zip:	92407
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported

TI WIRE (Continued) **S109035898**

Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	TERVITA LLC
Address:	12459 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0014680
Owner:	TERVITA
Permit Number:	PT0034952
Permit Category:	APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status:	INACTIVE
Expiration Date:	08/31/2019

Name:	TERVITA LLC
Address:	12459 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0014680
Owner:	TERVITA
Permit Number:	PT0025616
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	08/31/2019

Name:	TERVITA LLC
Address:	12459 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0014680
Owner:	TERVITA
Permit Number:	PT0025617
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	08/31/2018

TI WIRE (Continued) **S109035898**

CIWQS:

Name:	TI WIRE
Address:	12459 ARROW ROUTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Agency:	Tree Island Wire USA Inc
Agency Address:	5080 Hallmark Pkwy, San Bernardino, CA 92407
Place/Project Type:	Industrial - Steel Wiredrawing and Steel Nails and Spikes
SIC/NAICS:	3315
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I003788
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/03/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.09905
Longitude:	-117.53397

CERS:

Name:	TERVITA LLC
Address:	12459 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Site ID:	74443
CERS ID:	10313566
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	74443
Site Name:	TERVITA LLC
Violation Date:	08-31-2015
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes:	Returned to compliance on 03/02/2016. Inventory on CERS did not reflect what was observed on site.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	74443
Site Name:	TERVITA LLC
Violation Date:	08-31-2015
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/26/2017. Failure to complete hazardous

TI WIRE (Continued) **S109035898**

waste labels (CCR 66262.34(f)(3)) Hazardous waste label on the used oil was missing information.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 74443
Site Name: TERVITA LLC
Violation Date: 08-31-2015
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to prepare and implement a Spill Prevention Control and Countermeasure (SPCC) Plan .
Violation Notes: Returned to compliance on 07/26/2017. SPCC Plan not available for review at time of inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS

Site ID: 74443
Site Name: TERVITA LLC
Violation Date: 08-31-2015
Citation: 22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description: Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes: Returned to compliance on 07/26/2017. 55 gal drum of drained used oil filters was missing the accumulation start date.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 74443
Site Name: TERVITA LLC
Violation Date: 08-31-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/26/2017. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Used oil container was missing the accumulation start date.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-31-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-07-2018

TI WIRE (Continued) **S109035898**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-07-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-31-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-07-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-31-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE APSA FACILITY
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Enforcement Action:
Site ID: 74443
Site Name: TERVITA LLC
Site Address: 12459 ARROW RTE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 08-31-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: APSA
Enf Action Source: CERS

TI WIRE (Continued) **S109035898**

Site ID: 74443
Site Name: TERVITA LLC
Site Address: 12459 ARROW RTE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 08-31-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 74443
Site Name: TERVITA LLC
Site Address: 12459 ARROW RTE
Site City: RANCHO CUCAMONGA
Site Zip: 91739
Enf Action Date: 08-31-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 12459 ARROW ROUTE
Affiliation City: RANCHO CUCAMONGA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91739
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: TERVITA
Entity Title: Not reported
Affiliation Address: 500-140 10th Ave SE AB
Affiliation City: Calgary
Affiliation State: AB
Affiliation Country: Canada
Affiliation Zip: T2G 0R1
Affiliation Phone: (909) 899-7504

Affiliation Type Desc: Operator
Entity Name: TERVITA LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (951) 287-8854

TI WIRE (Continued) **S109035898**

Affiliation Type Desc: Parent Corporation
Entity Name: TERVITA LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: CARSON SWARTZ
Entity Title: Not reported
Affiliation Address: 12549 ARROW ROUTE
Affiliation City: RANCHO CUCAMONGA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91739
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Name: TAMCO
Address: 12459 ARROW HWY
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 186970
CERS ID: T0607100309
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: CARL BERNHARDT - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824495

Name: TI WIRE
Address: 12459 ARROW ROUTE
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Site ID: 544444
CERS ID: 233054
CERS Description: Industrial Facility Storm Water

Evaluation:

TI WIRE (Continued) **S109035898**

Eval General Type:	Case Development Inspection
Eval Date:	06-26-2013
Violations Found:	No
Eval Type:	Industrial Storm Water Enforcement Follow-up
Eval Notes:	See attachments for inspection report.
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS

Eval General Type:	Case Development Inspection
Eval Date:	05-19-2009
Violations Found:	No
Eval Type:	Industrial Storm Water Enforcement Follow-up
Eval Notes:	Meeting of four companies to address pollutant loads issues. Staff met with four companies to address the undersized stormwater treatment system on Tamco's property, due to the high stormwater run-offs draining towards it from the adjacent properties to the north, north-east, and eastern borders. At least two representatives from each company are present at the meeting to discuss Tamco's treatment system expansion, or each company will establish its own treatment system its property stormwater run-off. Stormwater samples analysis report from annual reports submitted to the Board by the four companies for 2004-2005 to 2007-2008 were presented by RB staff for discussion. Based on the analytical results, each company confirmed the need for corrective action and and acknowledged that the issues will be dealt with swifty.
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-09-2009
Violations Found:	No
Eval Type:	Industrial Storm Water Compliance Evaluation
Eval Notes:	Staff arrived at 1300: At the request of Mr. Peter Maitland, the technical services manager engineer from main headquarter in Canada (pmaitland@treeisland.com), staff visited the site to discuss options in retrofitting new structural BMPs for the site. With him is Harold Manifold, the director of operations from HQ (hmanifold@treeisland.com), and the various colleges from the past meetings during the four companies gathering to discuss about the Tamco's undersized treatment systems for all four companies. Tree Island had contacted various consultants and engineers to pre-calculate the required structural upgrades, as well as the treatment systems' options for retrofitting, in order to meet the EPA multi-sector benchmarks for their exceeding stormwater samples parameters. In addition, Tree Island also would like to prevent any discharge of stormwater run-off, treated or untreated, onto Tamco's property, located south and southwest of its property. Tree Island's preliminary conclusion is to perform an aerial and land survey of its property, including property borders assessment, a possibility of a structural trench line for diverting all stormwater run-offs to the eastern culvert/ditch, which ultimately discharges directly to the energy company about 2000 feet downstream, by-passing Tamco-+s treatment systems completely. Due to the economy, Tree Island is unable to perform drastic structural modification. However, the company is doing everything it could within its meager budget for

TI WIRE (Continued) **S109035898**

stormwater improvement project without causing the company to file for bankruptcy. The company will provide Board staff with updates within a month or two. Awaiting updates from company.

Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: Tree Island Wire USA Inc
Entity Title: Operator
Affiliation Address: 5080 Hallmark Pkwy
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92407
Affiliation Phone: Not reported

M71 **AMERON STEEL AND WIRE** **LUST** **S100929496**
NNW **12459 ARROW HWY** **Cortese** **N/A**
1/4-1/2 **ETIWANDA, CA 91769**
0.454 mi.
2397 ft. **Site 4 of 5 in cluster M**

Relative:
Higher

Actual:
1165 ft.

LUST REG 8:
Name: AMERON STEEL AND WIRE
Address: 12459 ARROW HWY
City: ETIWANDA
Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083600432T
Local Case Num: 90047
Case Type: Soil only
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: Not reported
Enf Type: None Taken
Funding: Not reported
How Discovered: OM
How Stopped: Not reported
Leak Cause: UNK
Leak Source: UNK
Global ID: T0607100046
How Stopped Date: 9/25/1989
Enter Date: 3/6/1987
Date Confirmation of Leak Began: Not reported
Date Preliminary Assessment Began: 11/1/1989
Discover Date: 9/25/1989
Enforcement Date: 1/1/1965
Close Date: 12/4/1990
Date Prelim Assessment Workplan Submitted: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: 2/13/1990

AMERON STEEL AND WIRE (Continued) **S100929496**

Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	3/6/1987
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	No
Oversite Program:	LUST
Latitude:	34.1007265
Longitude:	-117.5235672
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	CAB
Staff Initials:	CR2
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

CORTESE:

Name:	AMERON STEEL AND WIRE
Address:	12459 ARROW HWY
City,State,Zip:	ETIWANDA, CA 91769
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100046
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

M72 **AMERON STEEL AND WIRE** **HIST CORTESE** **S105023682**
NNW **12459 ETIWANDA** **N/A**
1/4-1/2 **ETIWANDA, CA 91769**
0.456 mi.
2410 ft. **Site 5 of 5 in cluster M**

Relative:
Higher

Actual:
1165 ft.

HIST CORTESE:

edr_fname:	AMERON STEEL AND WIRE
edr_fadd1:	12459 ETIWANDA
City,State,Zip:	ETIWANDA, CA 91769
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083600432T

N73 **AIR LIQUIDE** **LUST** **S105047589**
NNW **12550 ARROW RTE** **AST** **N/A**
1/4-1/2 **RANCHO CUCAMONGA, CA 91739** **NPDES**
0.458 mi. **San Bern. Co. Permit**
2416 ft. **Site 2 of 4 in cluster N** **CIWQS**
CERS

Relative:
Higher

Actual:
1165 ft.

LUST:

Name:	AIR LIQUIDE
Address:	12550 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100393
Global Id:	T0607100393
Latitude:	34.0990552
Longitude:	-117.528988
Status:	Completed - Case Closed
Status Date:	02/27/1996
Case Worker:	JC
RB Case Number:	083602729T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Local Agency
Local Case Number:	95054
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0607100393
Contact Type:	Local Agency Caseworker
Contact Name:	JACKSON CRUTSINGER
Organization Name:	SAN BERNARDINO COUNTY
Address:	620 SOUTH E STREET
City:	SAN BERNARDINO
Email:	jcrutsinger@sbcfire.org
Phone Number:	Not reported

LUST:

Global Id:	T0607100393
Action Type:	Other
Date:	10/25/1991
Action:	Leak Discovery

Global Id:	T0607100393

AIR LIQUIDE (Continued) **S105047589**

Action Type: Other
Date: 10/05/1995
Action: Leak Stopped

Global Id: T0607100393
Action Type: REMEDIATION
Date: 10/08/1995
Action: Excavation

Global Id: T0607100393
Action Type: ENFORCEMENT
Date: 02/27/1996
Action: Closure/No Further Action Letter

Global Id: T0607100393
Action Type: Other
Date: 10/18/1995
Action: Leak Reported

LUST:
Global Id: T0607100393
Status: Open - Case Begin Date
Status Date: 10/25/1991

Global Id: T0607100393
Status: Completed - Case Closed
Status Date: 02/27/1996

AST:
Name: AIR LIQUIDE INDUSTRIAL US LP
Address: 12550 ARROW RTE
City/Zip: RANCHO CUCAMONGA,91739
Certified Unified Program Agencies: Not reported
Owner: AIR LIQUIDE AMERICA US LP
Total Gallons: Not reported
CERSID: 10034866
Facility ID: FA0000720
Business Name: AIR LIQUIDE AMERICA
Phone: (909) 899-4641
Fax: (909) 899-4646
Mailing Address: 12550 ARROW RT
Mailing Address City: RANCHO CUCAMONGA
Mailing Address State: CA
Mailing Address Zip Code: 91739
Operator Name: Larry Rosson
Operator Phone: (951) 334-5975
Owner Phone: (713) 624-8000
Owner Mail Address: P O BOX 908
Owner State: TX
Owner Zip Code: 77001
Owner Country: United States
Property Owner Name: Air Liquide
Property Owner Phone: 909-899-4641
Property Owner Mailing Address: 12550 ARROW RTE
Property Owner City: RANCHO CUCAMONGA

AIR LIQUIDE (Continued) **S105047589**

Property Owner Stat :	CA
Property Owner Zip Code:	91739
Property Owner Country:	United States
EPAID:	Not reported

Name:	SCE-REDUCTION SUBSTATION
Address:	12550 ARROW
City/Zip:	RANCHO CUCAMONGA,
Certified Unified Program Agencies:	San Bernardino
Owner:	SOUTHERN CALIFORNIA EDISON
Total Gallons:	18,155
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

NPDES:

Name:	AIR LIQUIDE AMERICA CORP
Address:	12550 ARROW RTE
City,State,Zip:	ETIWANDA, CA 91739
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36I009170
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported

AIR LIQUIDE (Continued) **S105047589**

Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	10/10/2016
Operator Name:	Air Liquide America Corp
Operator Address:	12550 Arrow Route
Operator City:	Etiwanda
Operator State:	California
Operator Zip:	91739

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	213258
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I009170
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/08/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	09/23/2016
Discharge Name:	Air Liquide America Corp
Discharge Address:	12550 Arrow Route
Discharge City:	Etiwanda
Discharge State:	California
Discharge Zip:	91739
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported

AIR LIQUIDE (Continued) **S105047589**

Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213258
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I009170
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	09/23/2016
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	11/08/1992
Status:	Terminated
Status Date:	10/10/2016
Place Size:	20
Place Size Unit:	Acres
Contact:	Larry Rosson
Contact Title:	Not reported
Contact Phone:	909-899-4641

AIR LIQUIDE (Continued) **S105047589**

Contact Phone Ext:	Not reported
Contact Email:	larry.rosson@airliquide.com
Operator Name:	Air Liquide America Corp
Operator Address:	12550 Arrow Route
Operator City:	Etiwanda
Operator State:	California
Operator Zip:	91739
Operator Contact:	Larry Rosson
Operator Contact Title:	Not reported
Operator Contact Phone:	909-899-4641
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	larry.rosson@airliquide.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Day Creek Channel
Certifier:	Larry Rosson
Certifier Title:	Plant Manager
Certification Date:	24-JUL-15
Primary Sic:	2813-Industrial Gases
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	AIR LIQUIDE AMER CORP SLS
Address:	12550 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	SAN BERNARDINO
Facility ID:	FA0000718
Owner:	LIQUID AIR CORP/SALES
Permit Number:	PT0006871

AIR LIQUIDE (Continued) **S105047589**

Permit Category: HAZMAT HANDLER 11-25 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 10/31/2002

Name: CAMERON WELDING SUPPLIES
Address: 12550 ARROW ROUTE HWY
City,State,Zip: RANCHO CUCAMONGA, CA 91739
Region: SAN BERNARDINO
Facility ID: FA0007684
Owner: CAMERON WELDING SUPPLY, INC.
Permit Number: PT0013229
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 03/31/2009

CIWQS:

Name:	AIR LIQUIDE AMERICA CORP
Address:	12550 ARROW RTE
City,State,Zip:	ETIWANDA, CA 91739
Agency:	Air Liquide America Corp
Agency Address:	12550 Arrow Route, Etiwanda, CA 91739
Place/Project Type:	Industrial - Industrial Gases
SIC/NAICS:	2813
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I009170
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	11/08/1992
Termination Date:	09/23/2016
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.09906
Longitude:	-117.53156

Name:	AIR LIQUIDE PROCESS AND CONSTRUCTION INC
Address:	12550 ARROW RT
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Agency:	Air Liquide Industrial Us LP
Agency Address:	2700 Post Oak Blvd Ste 1800, Houston, TX 77056
Place/Project Type:	Construction - Industrial, Utility: wet dry high voltage, Transportation
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 36C358642

AIR LIQUIDE (Continued) **S105047589**

NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	06/17/2010
Termination Date:	07/01/2013
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.1
Longitude:	-117.53083

CERS:

Name:	AIR LIQUIDE
Address:	12550 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Site ID:	188974
CERS ID:	T0607100393
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	JACKSON CRUTSINGER - SAN BERNARDINO COUNTY
Entity Title:	Not reported
Affiliation Address:	620 SOUTH E STREET
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

N74 **AIR LIQUIDE** **LUST** **S102285674**
NNW **12550 ARROW RTE** **Cortese** **N/A**
1/4-1/2 **RANCHO CUCAMONGA, CA 91739**
0.458 mi.
2416 ft. **Site 3 of 4 in cluster N**

Relative:
Higher

Actual:
1165 ft.

LUST REG 8:

Name:	AIR LIQUIDE
Address:	12550 ARROW RTE
City:	RANCHO CUCAMONGA
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083602729T
Local Case Num:	95054
Case Type:	Soil only
Substance:	Diesel
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Cross Street:	ETIWANDA
Enf Type:	CLOS
Funding:	Not reported

AIR LIQUIDE (Continued) **S102285674**

How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Piping
Global ID:	T0607100393
How Stopped Date:	10/5/1995
Enter Date:	12/14/1995
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	10/25/1991
Enforcement Date:	Not reported
Close Date:	2/27/1996
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	12/14/1995
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0989766
Longitude:	-117.5237082
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	1
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	WDM
Staff Initials:	JC3
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: WASTE OIL ALSO

CORTESE:

Name:	AIR LIQUIDE
Address:	12550 ARROW RTE
City,State,Zip:	RANCHO CUCAMONGA, CA 91739
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100393
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported

AIR LIQUIDE (Continued) **S102285674**

Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

N75 **AIR LIQUIDE** **HIST CORTESE** **S105023680**
NNW **12550 ARROW RT** **N/A**
1/4-1/2 **ETIWANDA, CA 91739**
0.458 mi.
2416 ft. **Site 4 of 4 in cluster N**

Relative: Higher
Actual: 1165 ft.

HIST CORTESE:

edr_fname:	AIR LIQUIDE
edr_fadd1:	12550 ARROW RT
City,State,Zip:	ETIWANDA, CA 91739
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083602729T

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76 **VISTA METALS CORPORATION** **ENVIROSTOR** **1000395229**
ENE **13425 WHITTRAM AVE** **UST** **92335VSTMT13425**
1/2-1 **FONTANA, CA 92335** **AST**
0.672 mi. **CERS HAZ WASTE**
3547 ft. **SWEEPS UST**
HIST UST

Relative: Higher
CA FID UST
CERS TANKS

Actual: 1138 ft.
CHMIRS
TRIS
ICIS
FINDS
EMI
NPDES
San Bern. Co. Permit
WDS
CIWQS
CERS

ENVIROSTOR:

Name:	VISTA METALS
Address:	13425-35 WHITTRAM
City,State,Zip:	FONTANA, CA 92335
Facility ID:	36340036
Status:	Refer: Other Agency
Status Date:	08/22/1995
Site Code:	Not reported
Site Type:	Historical

VISTA METALS CORPORATION (Continued) **1000395229**

Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Cypress
Assembly: 52
Senate: 20
Special Program: * RCRA 3012 - Past Haz Waste Disp Inven Site
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.09389
Longitude: -117.5124
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * HALOGENATED SOLVENTS * ACID SOLUTION 2>PH WITH METALS * Sludge - Halogenated Compounds * UNSPECIFIED ACID SOLUTION * UNSPECIFIED ALKALINE SOLUTIONS * UNSPECIFIED AQUEOUS SOLUTION * ALKALINE SOLUTION 2<PH<12.5, WITH METALS Chromium VI
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD008285033
Alias Type: EPA Identification Number
Alias Name: 36340036
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 01/25/1983
Comments: FACILITY IDENTIFIED ID VIA RWQCB INACTIVE FILES BOX#45 PLATING COMPANY. CHLORINE DISCH 1977

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/08/1995
Comments: DATABASE VALIDATION PROGRAM CONFIRMS NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 07/01/1984
Comments: SUBMIT TO EPA PRELIM ASSESS DONE RCRA 3012

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

UST:

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Facility ID:	86008811
Permitting Agency:	SAN BERNARDINO COUNTY
Latitude:	34.0956114
Longitude:	-117.5110709

AST:

Name:	VISTA METALS CORP
Address:	13425 WHITTRAM AVE
City/Zip:	FONTANA,92335
Certified Unified Program Agencies:	Not reported
Owner:	Vista Metals Corp.
Total Gallons:	Not reported
CERSID:	10046440
Facility ID:	FA0007161
Business Name:	VISTA METALS CORP
Phone:	909.823.4278
Fax:	909.823.5383
Mailing Address:	13425 Whittram Avenue
Mailing Address City:	Fontana
Mailing Address State:	CA
Mailing Address Zip Code:	92335
Operator Name:	Vista Metals Corp.
Operator Phone:	909.823.4278
Owner Phone:	909.823.4278
Owner Mail Address:	13425 Whittram Avenue
Owner State:	CA
Owner Zip Code:	92335
Owner Country:	United States
Property Owner Name:	Vista Metals Corp.
Property Owner Phone:	(909) 823-4278
Property Owner Mailing Address:	13425 Whittram Avenue
Property Owner City:	Fontana
Property Owner Stat :	CA
Property Owner Zip Code:	92335
Property Owner Country:	United States
EPAID:	CAD008285033

CERS HAZ WASTE:

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Site ID:	169445
CERS ID:	10046440
CERS Description:	Hazardous Chemical Management

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Site ID:	169445
CERS ID:	10046440
CERS Description:	Hazardous Waste Generator

VISTA METALS CORPORATION (Continued) **1000395229**

SWEEPS UST:

Name:	VISTA METALS CORPORATION
Address:	13425 WHITRAM AVE
City:	FONTANA
Status:	Active
Comp Number:	3286
Number:	9
Board Of Equalization:	44-019864
Referral Date:	06-28-89
Action Date:	06-28-89
Created Date:	02-29-88
Owner Tank Id:	#1
SWRCB Tank Id:	36-000-003286-000001
Tank Status:	A
Capacity:	12000
Active Date:	06-28-89
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	1

Name:	VISTA METALS CORPORATION
Address:	13425 WHITRAM AVE
City:	FONTANA
Status:	Not reported
Comp Number:	3286
Number:	Not reported
Board Of Equalization:	44-019864
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-040447-000002
Tank Status:	Not reported
Capacity:	7500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	5

Name:	VISTA METALS CORPORATION
Address:	13425 WHITRAM AVE
City:	FONTANA
Status:	Not reported
Comp Number:	3286
Number:	Not reported
Board Of Equalization:	44-019864
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-040447-000003
Tank Status:	Not reported
Capacity:	7500
Active Date:	Not reported
Tank Use:	M.V. FUEL

VISTA METALS CORPORATION (Continued) **1000395229**

STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: VISTA METALS CORPORATION
Address: 13425 WHITRAM AVE
City: FONTANA
Status: Not reported
Comp Number: 3286
Number: Not reported
Board Of Equalization: 44-019864
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-040447-000004
Tank Status: Not reported
Capacity: 7500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: VISTA METALS CORPORATION
Address: 13425 WHITRAM AVE
City: FONTANA
Status: Not reported
Comp Number: 3286
Number: Not reported
Board Of Equalization: 44-019864
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-040447-000005
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: VISTA METALS CORPORATION
Address: 13425 WHITRAM AVE
City: FONTANA
Status: Not reported
Comp Number: 3286
Number: Not reported
Board Of Equalization: 44-019864
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-040447-000006
Tank Status: Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

HIST UST:
Name: VISTA METALS CORPORATION
Address: 13425 WHITRAM AVE
City,State,Zip: FONTANA, CA 92335
File Number: 0002AA09
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002AA09.pdf
Region: STATE
Facility ID: 00000003286
Facility Type: Other
Other Type: ALUMINUM RECYCLYLE
Contact Name: Not reported
Telephone: 7148234278
Owner Name: VISTA METALS CORPORATION
Owner Address: 13425 WHITRAM AVE
Owner City,St,Zip: FONTANA, CA 92335
Total Tanks: 0007

Tank Num: 001
Container Num: #1
Year Installed: Not reported
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 002
Container Num: #2
Year Installed: 1973
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 003
Container Num: #3
Year Installed: 1973
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 004
Container Num: #4
Year Installed: 1973
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: DIESEL

VISTA METALS CORPORATION (Continued) **1000395229**

Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 005
Container Num: #5
Year Installed: Not reported
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 006
Container Num: #6
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 007
Container Num: #7
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 36008337
Regulated By: UTNKA
Regulated ID: 00003286
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 13425 WHITRAM AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: FONTANA 92335
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CERS TANKS:
Name: VISTA METALS CORPORATION
Address: 13425 WHITTRAM AVE
City,State,Zip: FONTANA, CA 92335
Site ID: 169445

VISTA METALS CORPORATION (Continued) **1000395229**

CERS ID: 10046440
CERS Description: Aboveground Petroleum Storage

CHMIRS:

Name:	Not reported
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA
OES Incident Number:	3-2792
OES notification:	05/30/2003
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2003
Agency:	Vista Metals Corp.
Incident Date:	5/23/200312:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Merchant/Business
E Date:	Not reported
Substance:	Chlorine
Gallons:	0.000000
Pounds:	2

VISTA METALS CORPORATION (Continued) **1000395229**

Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Shutting down operations for the weekend and an operator spilled substance.
Name:	Not reported
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
OES Incident Number:	9-3394
OES notification:	08/12/1999
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	not possible
Containment:	Not reported
What Happened:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1999
Agency:	Vista Middles Corp
Incident Date:	8/12/199912:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	No
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Chlorine
Pounds:	1
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	1
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	After routine maitenance, maitenance worker forgot to put in a plug and inhaled some of the chlorine vapor. Worker sent to hospital. Has been released.

Facility, Chemical, Releases and Other Waste Management Summary Information:

TRI ID:	92335VSTMT13425
Form Type:	Form R
Reporting year:	2018
Trade secret indicator:	NO
Sanitized indicator:	NO
Title of certifying official:	EHS MANAGER CESAR CASTANEDA
Certifying officials signature indicator:	ELECTRONIC
Date signed:	2019-06-11
Name:	VISTA METALS CORP
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
BIA code:	Not reported
Tribe name:	Not reported
Mailing name:	VISTA METALS CORP
Mailing street:	13425 WHITTRAM AVE
Mailing province:	Not reported
Mailing City,State,Zip:	FONTANA, CA 92335
Entire facility ind:	YES
Partial facility ind:	NO
Federal facility ind:	NO
Goco facility ind:	NO

VISTA METALS CORPORATION (Continued) **1000395229**

Assigned fed facility flag:		NO
Public contact name:		CESAR CASTANEDA
Public contact phone and Ext:		9098296175
Public contact email:		CESAR@VISTAMETALS.COM
Primary sic code:		Not reported
Sic code 2:		Not reported
Sic code 3:		Not reported
Sic code 4:		Not reported
Sic code 5:		Not reported
Sic code 6:		Not reported
Naics origin:		Not reported
Primary naics code:		331314
Naics code 2:		Not reported
Naics code 3:		Not reported
Naics code 4:		Not reported
Naics code 5:		Not reported
Naics code 6:		Not reported
Latitude:		34.0946
Longitude:		-117.51326
D and B number A:		008285033
D and B number B:		Not reported
RCRA number A:		CAD008285033
RCRA number B:		Not reported
RCRA number C:		Not reported
RCRA number D:		Not reported
RCRA number E:		Not reported
RCRA number F:		Not reported
RCRA number G:		Not reported
RCRA number H:		Not reported
NPDES number A:		CAZ213103
NPDES number B:		Not reported
NPDES number C:		Not reported
NPDES number D:		Not reported
NPDES number E:		Not reported
NPDES number F:		Not reported
NPDES number G:		Not reported
Parent company name:		Not reported
Parent company D and B number:		Not reported
Standardized parent company name:		NA
Document control number:		1318216843678
TRI ID:		92335VSTMT13425
Cas number:		007440020
Chemical name:	NICKEL	
Classification:		TRI
Unit of measure:		Pounds
Metal ind:		YES
Revision code 1:		Not reported
Revision code 2:		Not reported
Maximum amount on site:		04
Fugitive air emissions - total release pounds:		Not reported
Fugitive air emissions - total release range code:		A
Total fugitive air emissions:		5
Fugitive air emissions - basis of estimate:		Published Emission Factors
Stack air emissions - release pounds:		Not reported
Stack air emissions - release range code:		A
Total stack air emissions:		5
Stack air emissions - basis of estimate:		On-Site-Specific Emission Factors

VISTA METALS CORPORATION (Continued) **1000395229**

Total air emissions:	10
Discharges to stream a - stream name:	Not reported
Total discharges to stream a:	Not reported
Discharges to stream a - basis of estimate:	Not reported
Discharges to stream a - % from stormwater:	Not reported
Discharges to stream b - stream name:	Not reported
Total discharges to stream b:	Not reported
Discharges to stream b - basis of estimate:	Not reported
Discharges to stream b - % from stormwater:	Not reported
Discharges to stream c - stream name:	Not reported
Total discharges to stream c:	Not reported
Discharges to stream c - basis of estimate:	Not reported
Discharges to stream c - % from stormwater:	Not reported
Discharges to stream d - stream name:	Not reported
Total discharges to stream d:	Not reported
Discharges to stream d - basis of estimate:	Not reported
Discharges to stream d - % from stormwater:	Not reported
Discharges to stream e - stream name:	Not reported
Total discharges to stream e:	Not reported
Discharges to stream e - basis of estimate:	Not reported
Discharges to stream e - % from stormwater:	Not reported
Discharges to stream f - stream name:	Not reported
Total discharges to stream f:	Not reported
Discharges to stream f - basis of estimate:	Not reported
Discharges to stream f - % from stormwater:	Not reported
Discharges to stream g - stream name:	Not reported
Total discharges to stream g:	Not reported
Discharges to stream g - basis of estimate:	Not reported
Discharges to stream g - % from stormwater:	Not reported
Total number of receiving streams:	0
Total surface water discharge:	0
Total on-site underground inj - pounds:	0
On-site underground inj - basis of estimate:	Not reported
Total on-site ugrnd inj to cl i wells - pounds:	0
On-site underground inj to c1 i wells - basis of estimate:	Not reported
Total on-site ugrnd inj to cl ii-v wells - pounds:	0
On-site ungrnd inj to cl ii-v wells - basis of estimate:	Not reported
Total on-site underground injection:	0
Total on-site landfills:	0
On-site landfills - basis of estimate:	Not reported
Total on-site RCRA subtitle c landfills:	0
On-site RCRA subtitle c landfills - basis of estimate:	Not reported
Total other on-site landfills:	0
Other landfills - basis of estimate:	Not reported
Total on-site land treatment:	0
Land trtmt/appl farming - basis of estimate:	Not reported
Total surface impoundments:	0
Surface impoundment - basis of estimate:	Not reported
Total RCRA c surface impoundments:	0
RCRA c Surface impoundment - basis of estimate:	Not reported
Total other surface impoundments:	0
Other surface impoundment - basis of estimate:	Not reported
Total other disposal:	0
Other disposal - basis of estimate:	Not reported
Total on-site land releases:	0
Total on-site releases:	10
Off-site - POTW releases:	0

VISTA METALS CORPORATION (Continued) **1000395229**

Off-site - storage only:	0
Off-site - solid/stab - metals:	0
Off-site - wastewater treatment release - metals:	0
Off-site - solid/stab - release - metals:	0
Off-site - wastewater treatment - metals:	0
Off-site - underground injection:	0
Off-site - underground injection - class 1 wells:	0
Off-site - underground injection - class ii-v wells:	0
Off-site - landfills/disposal surface impoundments:	0
Off-site - surface impoundment:	0
Off-site - RCRA subtitle c surface impoundments:	0
Off-site - other surface impoundments:	0
Off-site - other landfills:	250
Off-site - RCRA subtitle c landfills:	0
Off-site - disposal - land treatment:	0
Off-site - disposal - other land disposal:	0
Off-site - disposal - other off-site management:	0
Off-site - disposal - transfer to waste broker:	0
Off-site - disposal - unknown:	0
Total transferred off site for disposal:	250
Off-site - recycling - solvents/organics recovery:	0
Off-site - recycling -metals recovery:	250
Off-site - recycling - other reuse or recovery:	0
Off-site - recycling - acid regeneration:	0
Off-site - recycling - transfer to waste broker:	0
Total transferred off site for recycling:	250
Off-site - energy recovery:	0
Off-site - transfer to waste broker for energy recovery:	0
Total transferred off site for energy recovery:	0
Off-site - POTW treatment:	0
Off-site - solid/stab treatment - non metals:	0
Off-site -incineration/thermal treatment:	0
Off-site - incineration/insignificant heat value:	0
Off-site - wastewater treatment - non-metals:	0
Off-site - other waste treatment:	0
Off-site - transfer to waste broker - waste treatment:	0
Total transferred off site for treatment:	0
Off-site - transfer to waste broker:	0
Total transferred off site for further waste management:	500
Total POTW transfer:	0
Energy recovery on site current year:	0
Recycled on site current year:	0
Treated on site current year:	0
Total on-site waste management:	0
On-site energy recovery method 1:	Not Applicable
On-site energy recovery method 2:	Not reported
On-site energy recovery method 3:	Not Applicable
On-site energy recovery method 4:	Not reported
On-site recycling processes method 1:	Not Applicable
On-site recycling processes method 2:	Not reported
On-site recycling processes method 3:	Not reported
On-site recycling processes method 4:	Not reported
On-site recycling processes method 5:	Not reported
On-site recycling processes method 6:	Not reported
On-site recycling processes method 7:	Not reported
FRS Facility ID:	110000479312
Elemental Metal Included:	NO

VISTA METALS CORPORATION (Continued) **1000395229**

Waste Rock Pile managed Indicator:		0
Waste Rock Quantity:		Not reported
Off Site - POTW Releases 81C:		0
Off Site - POTW Releases 81D:		0
Chemical Activities and Uses:		
Cas number:		007440020
Document control number:		1318216843678
Chemical name:	NICKEL	
Classification:		TRI
Unit of measure:		Pounds
Produce the chemical:		Yes
Import the chemical:		No
On-site use of the chemical:		No
Sale or distribution of the chemical:		No
As a byproduct:		Yes
As a manufactured impurity:		No
Used as a reactant:		No
P101 feedstocks:		No
P102 raw materials:		No
P103 intermediates:		No
P104 initiators:		No
P199 other:		No
Added as a formulation component:		No
P201 additives:		No
P202 dyes:		No
P203 reaction diluents:		No
P204 initiators:		No
P205 solvents:		No
P206 inhibitors:		No
P207 emulsifiers:		No
P208 surfactants:		No
P209 lubricants:		No
P210 flame retardants:		No
P211 rheological modifiers:		No
P299 other:		No
Used as an article component:		Yes
Repackaging:		No
As a process impurity:		No
Processed / recycling:		No
Used as a chemical processing aid:		No
Z101 process solvents:		No
Z102 catalysts:		No
Z103 inhibitors:		No
Z104 initiators:		No
Z105 reaction terminators:		No
Z106 solution buffers:		No
Z199 other:		No
Used as a manufacturing aid:		No
Z201 process lubricants:		No
Z202 metalworking fluids:		No
Z203 coolants:		No
Z204 refrigerants:		No
Z205 hydraulic fluids:		No
Z299 other:		No
Ancillary or other use:		No
Z301 cleaner:		No
Z302 degreaser:		No

VISTA METALS CORPORATION (Continued) **1000395229**

Z303 lubricant:	No
Z304 fuel:	No
Z305 flame retardant:	No
Z306 waste treatment:	No
Z307 water treatment:	No
Z308 construction materials:	No
Z399 other:	No

Submitted Facility Name:	VISTA METALS CORP.
Submitted Street:	13425 WHITTRAM AVE
Submitted City:	FONTANA
Submitted County:	SAN BERNARDINO
Submitted State:	CA
Submitted Zip Code:	92335
Submitted BIA Code:	Not reported
Submitted Tribe Name:	Not reported
Submitted Parent Company Name:	Not reported
Submitted Parent Company DB Number:	Not reported
Submitted Standardized Parent Company Name:	NA
Submitted Primary NAICS Code:	331314
Submitted Industry Code:	331
Submitted Industry Name:	Primary Metals
Industry Code:	331
Industry Name:	Primary Metals
Last year the facility reported:	2018
First year the facility reported:	1987
Number of forms submitted:	7
Total number of forms submitted:	185

Detailed Source Reduction Activities and Methods:

Cas number:	007440020
Document control number:	1318216843678
Chemical name: NICKEL	
Classification:	TRI
Unit of measure:	Pounds
On-site limited releases - prior year:	0
On-site limited releases - current year:	0
On-site limited releases - following year:	0
On-site limited releases - 2nd-following year:	0
Other on-site releases - prior year:	4
Other on-site releases - current year:	2
Other on-site releases - following year:	2
Other on-site releases - 2nd-following year:	2
Off-site limited releases - prior year:	7
Off-site limited releases - current year:	12
Off-site limited releases - following year:	12
Off-site limited releases - 2nd-following year:	12
Other off-site releases - previous year:	0
Other off-site releases - current year:	0
Other off-site releases - following year:	0
Other off-site releases - 2nd-following year:	0
Energy recovery on site prior year:	0
Energy recovery on site current year:	0
Energy recovery on site following year:	0
Energy recovery on site 2nd-following year:	0
Energy recovery off site prior year:	0
Energy recovery off site current year:	0

VISTA METALS CORPORATION (Continued) **1000395229**

Energy recovery off site following year:	0
Energy recovery off site 2nd-following year:	0
Quantity recycled on site prior year:	0
Quantity recycled on site current year:	0
Quantity recycled on site following year:	0
Quantity recycled on site 2nd-following year:	0
Quantity recycled off site prior year:	300
Quantity recycled off site current year:	400
Quantity recycled off site following year:	400
Quantity recycled off site 2nd-following year:	400
Quantity treated on site prior year:	0
Quantity treated on site current year:	0
Quantity treated on site following year:	0
Quantity treated on site 2nd-following year:	0
Quantity treated off site prior year:	0
Quantity treated off site current year:	0
Quantity treated off site following year:	0
Quantity treated off site 2nd-following year:	0
Catastrophic releases or other one-time events:	Not reported
Prod ratio/activity index:	1.09
Prod ratio or activity:	PRODUCTION
1st SR reduction activity:	NA-Na
1st SR activity ID meth code and desc 1:	Not reported
1st SR activity ID meth code and desc 2:	Not reported
1st SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 1st source REDN act code and desc:	Not reported
2nd SR activity code and desc:	Not reported
2nd SR activity ID meth code and desc 1:	Not reported
2nd SR activity ID meth code and desc 2:	Not reported
2nd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 2nd source REDN act code and desc:	Not reported
3rd SR activity code and desc:	Not reported
3rd SR activity ID meth code and desc 1:	Not reported
3rd SR activity ID meth code and desc 2:	Not reported
3rd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 3rd source REDN act code and desc:	Not reported
4th SR activity code and desc:	Not reported
4th SR activity ID meth code and desc 1:	Not reported
4th SR activity ID meth code and desc 2:	Not reported
4th SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 4th source REDN act code and desc:	Not reported

Detailed On-site Waste Treatment Methods and Efficiency:

Cas number:	007440020
Document control number:	1318216843678
Chemical name: NICKEL	
Classification:	TRI
Unit of measure:	Pounds
Stream 1 - waste stream code:	Gaseous (gases, vapors, airborne particulates)
Stream 1 - trtmt method - sequence 1:	Other Air Emission Treatment
Stream 1 - trtmt method - sequence 2:	Not reported
Stream 1 - trtmt method - sequence 3:	Not reported
Stream 1 - trtmt method - sequence 4:	Not reported
Stream 1 - trtmt method - sequence 5:	Not reported
Stream 1 - trtmt method - sequence 6:	Not reported
Stream 1 - trtmt method - sequence 7:	Not reported
Stream 1 - trtmt method - sequence 8:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Stream 1 - based on operating data:	NO
Stream 2 - waste stream code:	Not reported
Stream 2 - trtmt method - sequence 1:	Not reported
Stream 2 - trtmt method - sequence 2:	Not reported
Stream 2 - trtmt method - sequence 3:	Not reported
Stream 2 - trtmt method - sequence 4:	Not reported
Stream 2 - trtmt method - sequence 5:	Not reported
Stream 2 - trtmt method - sequence 6:	Not reported
Stream 2 - trtmt method - sequence 7:	Not reported
Stream 2 - trtmt method - sequence 8:	Not reported
Stream 2 - based on operating data:	Not reported
Stream 3 - waste stream code:	Not reported
Stream 3 - trtmt method - sequence 1:	Not reported
Stream 3 - trtmt method - sequence 2:	Not reported
Stream 3 - trtmt method - sequence 3:	Not reported
Stream 3 - trtmt method - sequence 4:	Not reported
Stream 3 - trtmt method - sequence 5:	Not reported
Stream 3 - trtmt method - sequence 6:	Not reported
Stream 3 - trtmt method - sequence 7:	Not reported
Stream 3 - trtmt method - sequence 8:	Not reported
Stream 3 - based on operating data:	Not reported
Stream 4 - waste stream code:	Not reported
Stream 4 - trtmt method - sequence 1:	Not reported
Stream 4 - trtmt method - sequence 2:	Not reported
Stream 4 - trtmt method - sequence 3:	Not reported
Stream 4 - trtmt method - sequence 4:	Not reported
Stream 4 - trtmt method - sequence 5:	Not reported
Stream 4 - trtmt method - sequence 6:	Not reported
Stream 4 - trtmt method - sequence 7:	Not reported
Stream 4 - trtmt method - sequence 8:	Not reported
Stream 4 - based on operating data:	Not reported
Stream 5 - waste stream code:	Not reported
Stream 5 - trtmt method - sequence 1:	Not reported
Stream 5 - trtmt method - sequence 2:	Not reported
Stream 5 - trtmt method - sequence 3:	Not reported
Stream 5 - trtmt method - sequence 4:	Not reported
Stream 5 - trtmt method - sequence 5:	Not reported
Stream 5 - trtmt method - sequence 6:	Not reported
Stream 5 - trtmt method - sequence 7:	Not reported
Stream 5 - trtmt method - sequence 8:	Not reported
Stream 5 - based on operating data:	Not reported

Details of Off-site Transfers:

Cas number:		007440020
Document control number:		1318216843678
Chemical name:	NICKEL	
Classification:		TRI
Offsite RCRA id nr:		NA
Offsite transfer sequence number:		1
Offsite name:		IMSAMET OF ARIZONA
Offsite street address:		3839 S. ESTRELLA PARKWAY
Offsite City,State,Zip:		GOODYEAR, AZ 85338
Offsite county:		MARICOPA
Offsite province:		Not reported
Offsite country id:		Not reported
Offsite control:		NO
Unit of measure:		Pounds

VISTA METALS CORPORATION (Continued) **1000395229**

Total amount transferred offsite for disposal:	0
Offsite metals recovery m24 LBS:	250
Offsite metals recovery m24 BOE:	Other
Total amount transferred offsite for recycling:	250
Total amount transferred offsite for energy recovery:	0
Total amount transferred offsite for treatment:	0
FRS ID - Transfer Location:	Not reported
Offsite RCRA id nr:	AZC950823111
Offsite transfer sequence number:	2
Offsite name:	LA PAZ COUNTY LANDFILL
Offsite street address:	26999 HIGHWAY 95 MILEPOST 128
Offsite City,State,Zip:	PARKER, AZ 85344
Offsite county:	LA PAZ
Offsite province:	Not reported
Offsite country id:	Not reported
Offsite control:	NO
Unit of measure:	Pounds
Offsite other landfills m64 LBS:	250
Offsite other landfills m64 BOE:	Other
Total amount transferred offsite for disposal:	250
Total amount transferred offsite for recycling:	0
Total amount transferred offsite for energy recovery:	0
Total amount transferred offsite for treatment:	0
FRS ID - Transfer Location:	Not reported
TRI ID:	92335VSTMT13425
Cas number:	007439965
Chemical name: MANGANESE	
Classification:	TRI
Unit of measure:	Pounds
Metal ind:	YES
Revision code 1:	Not reported
Revision code 2:	Not reported
Maximum amount on site:	04
Fugitive air emissions - total release pounds:	Not reported
Fugitive air emissions - total release range code:	A
Total fugitive air emissions:	5
Fugitive air emissions - basis of estimate:	Published Emission Factors
Stack air emissions - release pounds:	Not reported
Stack air emissions - release range code:	A
Total stack air emissions:	5
Stack air emissions - basis of estimate:	On-Site-Specific Emission Factors
Total air emissions:	10
Discharges to stream a - stream name:	Not reported
Total discharges to stream a:	Not reported
Discharges to stream a - basis of estimate:	Not reported
Discharges to stream a - % from stormwater:	Not reported
Discharges to stream b - stream name:	Not reported
Total discharges to stream b:	Not reported
Discharges to stream b - basis of estimate:	Not reported
Discharges to stream b - % from stormwater:	Not reported
Discharges to stream c - stream name:	Not reported
Total discharges to stream c:	Not reported
Discharges to stream c - basis of estimate:	Not reported
Discharges to stream c - % from stormwater:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Discharges to stream d - stream name:	Not reported
Total discharges to stream d:	Not reported
Discharges to stream d - basis of estimate:	Not reported
Discharges to stream d - % from stormwater:	Not reported
Discharges to stream e - stream name:	Not reported
Total discharges to stream e:	Not reported
Discharges to stream e - basis of estimate:	Not reported
Discharges to stream e - % from stormwater:	Not reported
Discharges to stream f - stream name:	Not reported
Total discharges to stream f:	Not reported
Discharges to stream f - basis of estimate:	Not reported
Discharges to stream f - % from stormwater:	Not reported
Discharges to stream g - stream name:	Not reported
Total discharges to stream g:	Not reported
Discharges to stream g - basis of estimate:	Not reported
Discharges to stream g - % from stormwater:	Not reported
Total number of receiving streams:	0
Total surface water discharge:	0
Total on-site underground inj - pounds:	0
On-site underground inj - basis of estimate:	Not reported
Total on-site ugrnd inj to cl i wells - pounds:	0
On-site underground inj to c1 i wells - basis of estimate:	Not reported
Total on-site ugrnd inj to cl ii-v wells - pounds:	0
On-site ungrnd inj to cl ii-v wells - basis of estimate:	Not reported
Total on-site underground injection:	0
Total on-site landfills:	0
On-site landfills - basis of estimate:	Not reported
Total on-site RCRA subtitle c landfills:	0
On-site RCRA subtitle c landfills - basis of estimate:	Not reported
Total other on-site landfills:	0
Other landfills - basis of estimate:	Not reported
Total on-site land treatment:	0
Land trtmt/appl farming - basis of estimate:	Not reported
Total surface impoundments:	0
Surface impoundment - basis of estimate:	Not reported
Total RCRA c surface impoundments:	0
RCRA c Surface impoundment - basis of estimate:	Not reported
Total other surface impoundments:	0
Other surface impoundment - basis of estimate:	Not reported
Total other disposal:	0
Other disposal - basis of estimate:	Not reported
Total on-site land releases:	0
Total on-site releases:	10
Off-site - POTW releases:	0
Off-site - storage only:	0
Off-site - solid/stab - metals:	0
Off-site - wastewater treatment release - metals:	0
Off-site - solid/stab - release - metals:	0
Off-site - wastewater treatment - metals:	0
Off-site - underground injection:	0
Off-site - underground injection - class 1 wells:	0
Off-site - underground injection - class ii-v wells:	0
Off-site - landfills/disposal surface impoundments:	0
Off-site - surface impoundment:	0
Off-site - RCRA subtitle c surface impoundments:	0
Off-site - other surface impoundments:	0
Off-site - other landfills:	250

VISTA METALS CORPORATION (Continued) **1000395229**

Off-site - RCRA subtitle c landfills:	0
Off-site - disposal - land treatment:	0
Off-site - disposal - other land disposal:	0
Off-site - disposal - other off-site management:	0
Off-site - disposal - transfer to waste broker:	0
Off-site - disposal - unknown:	0
Total transferred off site for disposal:	250
Off-site - recycling - solvents/organics recovery:	0
Off-site - recycling -metals recovery:	1800
Off-site - recycling - other reuse or recovery:	0
Off-site - recycling - acid regeneration:	0
Off-site - recycling - transfer to waste broker:	0
Total transferred off site for recycling:	1800
Off-site - energy recovery:	0
Off-site - transfer to waste broker for energy recovery:	0
Total transferred off site for energy recovery:	0
Off-site - POTW treatment:	0
Off-site - solid/stab treatment - non metals:	0
Off-site -incineration/thermal treatment:	0
Off-site - incineration/insignificant heat value:	0
Off-site - wastewater treatment - non-metals:	0
Off-site - other waste treatment:	0
Off-site - transfer to waste broker - waste treatment:	0
Total transferred off site for treatment:	0
Off-site - transfer to waste broker:	0
Total transferred off site for further waste management:	2050
Total POTW transfer:	0
Energy recovery on site current year:	0
Recycled on site current year:	0
Treated on site current year:	0
Total on-site waste management:	0
On-site energy recovery method 1:	Not Applicable
On-site energy recovery method 2:	Not reported
On-site energy recovery method 3:	Not Applicable
On-site energy recovery method 4:	Not reported
On-site recycling processes method 1:	Not Applicable
On-site recycling processes method 2:	Not reported
On-site recycling processes method 3:	Not reported
On-site recycling processes method 4:	Not reported
On-site recycling processes method 5:	Not reported
On-site recycling processes method 6:	Not reported
On-site recycling processes method 7:	Not reported
FRS Facility ID:	110000479312
Elemental Metal Included:	NO
Waste Rock Pile managed Indicator:	0
Waste Rock Quantity:	Not reported
Off Site - POTW Releases 81C:	0
Off Site - POTW Releases 81D:	0

Chemical Activities and Uses:

Cas number:		007439965
Document control number:		1318216843666
Chemical name:	MANGANESE	
Classification:		TRI
Unit of measure:		Pounds
Produce the chemical:		Yes
Import the chemical:		No
On-site use of the chemical:		No

VISTA METALS CORPORATION (Continued) **1000395229**

Sale or distribution of the chemical:	No
As a byproduct:	Yes
As a manufactured impurity:	No
Used as a reactant:	No
P101 feedstocks:	No
P102 raw materials:	No
P103 intermediates:	No
P104 initiators:	No
P199 other:	No
Added as a formulation component:	No
P201 additives:	No
P202 dyes:	No
P203 reaction diluents:	No
P204 initiators:	No
P205 solvents:	No
P206 inhibitors:	No
P207 emulsifiers:	No
P208 surfactants:	No
P209 lubricants:	No
P210 flame retardants:	No
P211 rheological modifiers:	No
P299 other:	No
Used as an article component:	Yes
Repackaging:	No
As a process impurity:	No
Processed / recycling:	No
Used as a chemical processing aid:	No
Z101 process solvents:	No
Z102 catalysts:	No
Z103 inhibitors:	No
Z104 initiators:	No
Z105 reaction terminators:	No
Z106 solution buffers:	No
Z199 other:	No
Used as a manufacturing aid:	No
Z201 process lubricants:	No
Z202 metalworking fluids:	No
Z203 coolants:	No
Z204 refrigerants:	No
Z205 hydraulic fluids:	No
Z299 other:	No
Ancillary or other use:	No
Z301 cleaner:	No
Z302 degreaser:	No
Z303 lubricant:	No
Z304 fuel:	No
Z305 flame retardant:	No
Z306 waste treatment:	No
Z307 water treatment:	No
Z308 construction materials:	No
Z399 other:	No

Submitted Facility Name:	VISTA METALS CORP.
Submitted Street:	13425 WHITTRAM AVE
Submitted City:	FONTANA
Submitted County:	SAN BERNARDINO
Submitted State:	CA

VISTA METALS CORPORATION (Continued) **1000395229**

Submitted Zip Code:	92335
Submitted BIA Code:	Not reported
Submitted Tribe Name:	Not reported
Submitted Parent Company Name:	Not reported
Submitted Parent Company DB Number:	Not reported
Submitted Standardized Parent Company Name:	NA
Submitted Primary NAICS Code:	331314
Submitted Industry Code:	331
Submitted Industry Name:	Primary Metals
Industry Code:	331
Industry Name:	Primary Metals
Last year the facility reported:	2018
First year the facility reported:	1987
Number of forms submitted:	7
Total number of forms submitted:	185

Detailed Source Reduction Activities and Methods:

Cas number:	007439965
Document control number:	1318216843666
Chemical name: MANGANESE	
Classification:	TRI
Unit of measure:	Pounds
On-site limited releases - prior year:	0
On-site limited releases - current year:	0
On-site limited releases - following year:	0
On-site limited releases - 2nd-following year:	0
Other on-site releases - prior year:	16
Other on-site releases - current year:	15
Other on-site releases - following year:	15
Other on-site releases - 2nd-following year:	15
Off-site limited releases - prior year:	13
Off-site limited releases - current year:	20
Off-site limited releases - following year:	20
Off-site limited releases - 2nd-following year:	20
Other off-site releases - previous year:	0
Other off-site releases - current year:	0
Other off-site releases - following year:	0
Other off-site releases - 2nd-following year:	0
Energy recovery on site prior year:	0
Energy recovery on site current year:	0
Energy recovery on site following year:	0
Energy recovery on site 2nd-following year:	0
Energy recovery off site prior year:	0
Energy recovery off site current year:	0
Energy recovery off site following year:	0
Energy recovery off site 2nd-following year:	0
Quantity recycled on site prior year:	0
Quantity recycled on site current year:	0
Quantity recycled on site following year:	0
Quantity recycled on site 2nd-following year:	0
Quantity recycled off site prior year:	1400
Quantity recycled off site current year:	1800
Quantity recycled off site following year:	1800
Quantity recycled off site 2nd-following year:	1800
Quantity treated on site prior year:	0
Quantity treated on site current year:	0
Quantity treated on site following year:	0

VISTA METALS CORPORATION (Continued) **1000395229**

Quantity treated on site 2nd-following year:	0
Quantity treated off site prior year:	0
Quantity treated off site current year:	0
Quantity treated off site following year:	0
Quantity treated off site 2nd-following year:	0
Catastrophic releases or other one-time events:	Not reported
Prod ratio/activity index:	1.09
Prod ratio or activity:	PRODUCTION
1st SR reduction activity:	NA-Na
1st SR activity ID meth code and desc 1:	Not reported
1st SR activity ID meth code and desc 2:	Not reported
1st SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 1st source REDN act code and desc:	Not reported
2nd SR activity code and desc:	Not reported
2nd SR activity ID meth code and desc 1:	Not reported
2nd SR activity ID meth code and desc 2:	Not reported
2nd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 2nd source REDN act code and desc:	Not reported
3rd SR activity code and desc:	Not reported
3rd SR activity ID meth code and desc 1:	Not reported
3rd SR activity ID meth code and desc 2:	Not reported
3rd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 3rd source REDN act code and desc:	Not reported
4th SR activity code and desc:	Not reported
4th SR activity ID meth code and desc 1:	Not reported
4th SR activity ID meth code and desc 2:	Not reported
4th SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 4th source REDN act code and desc:	Not reported

Detailed On-site Waste Treatment Methods and Efficiency:

Cas number:	007439965
Document control number:	1318216843666
Chemical name: MANGANESE	
Classification:	TRI
Unit of measure:	Pounds
Stream 1 - waste stream code:	Gaseous (gases, vapors, airborne particulates)
Stream 1 - trtmt method - sequence 1:	Other Air Emission Treatment
Stream 1 - trtmt method - sequence 2:	Not reported
Stream 1 - trtmt method - sequence 3:	Not reported
Stream 1 - trtmt method - sequence 4:	Not reported
Stream 1 - trtmt method - sequence 5:	Not reported
Stream 1 - trtmt method - sequence 6:	Not reported
Stream 1 - trtmt method - sequence 7:	Not reported
Stream 1 - trtmt method - sequence 8:	Not reported
Stream 1 - based on operating data:	NO
Stream 2 - waste stream code:	Not reported
Stream 2 - trtmt method - sequence 1:	Not reported
Stream 2 - trtmt method - sequence 2:	Not reported
Stream 2 - trtmt method - sequence 3:	Not reported
Stream 2 - trtmt method - sequence 4:	Not reported
Stream 2 - trtmt method - sequence 5:	Not reported
Stream 2 - trtmt method - sequence 6:	Not reported
Stream 2 - trtmt method - sequence 7:	Not reported
Stream 2 - trtmt method - sequence 8:	Not reported
Stream 2 - based on operating data:	Not reported
Stream 3 - waste stream code:	Not reported
Stream 3 - trtmt method - sequence 1:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Stream 3 - trtmt method - sequence 2:	Not reported
Stream 3 - trtmt method - sequence 3:	Not reported
Stream 3 - trtmt method - sequence 4:	Not reported
Stream 3 - trtmt method - sequence 5:	Not reported
Stream 3 - trtmt method - sequence 6:	Not reported
Stream 3 - trtmt method - sequence 7:	Not reported
Stream 3 - trtmt method - sequence 8:	Not reported
Stream 3 - based on operating data:	Not reported
Stream 4 - waste stream code:	Not reported
Stream 4 - trtmt method - sequence 1:	Not reported
Stream 4 - trtmt method - sequence 2:	Not reported
Stream 4 - trtmt method - sequence 3:	Not reported
Stream 4 - trtmt method - sequence 4:	Not reported
Stream 4 - trtmt method - sequence 5:	Not reported
Stream 4 - trtmt method - sequence 6:	Not reported
Stream 4 - trtmt method - sequence 7:	Not reported
Stream 4 - trtmt method - sequence 8:	Not reported
Stream 4 - based on operating data:	Not reported
Stream 5 - waste stream code:	Not reported
Stream 5 - trtmt method - sequence 1:	Not reported
Stream 5 - trtmt method - sequence 2:	Not reported
Stream 5 - trtmt method - sequence 3:	Not reported
Stream 5 - trtmt method - sequence 4:	Not reported
Stream 5 - trtmt method - sequence 5:	Not reported
Stream 5 - trtmt method - sequence 6:	Not reported
Stream 5 - trtmt method - sequence 7:	Not reported
Stream 5 - trtmt method - sequence 8:	Not reported
Stream 5 - based on operating data:	Not reported

Details of Off-site Transfers:

Cas number:	007439965
Document control number:	1318216843666
Chemical name: MANGANESE	
Classification:	TRI
Offsite RCRA id nr:	NA
Offsite transfer sequence number:	1
Offsite name:	IMSAMET OF ARIZONA
Offsite street address:	3839 S. ESTRELLA PARKWAY
Offsite City,State,Zip:	GOODYEAR, AZ 85338
Offsite county:	MARICOPA
Offsite province:	Not reported
Offsite country id:	Not reported
Offsite control:	NO
Unit of measure:	Pounds
Total amount transferred offsite for disposal:	0
Offsite metals recovery m24 LBS:	1800
Offsite metals recovery m24 BOE:	Other
Total amount transferred offsite for recycling:	1800
Total amount transferred offsite for energy recovery:	0
Total amount transferred offsite for treatment:	0
FRS ID - Transfer Location:	Not reported

Offsite RCRA id nr:	AZC950823111
Offsite transfer sequence number:	2
Offsite name:	LA PAZ COUNTY LANDFILL
Offsite street address:	26999 HIGHWAY 95 MILEPOST 128
Offsite City,State,Zip:	PARKER, AZ 85344

VISTA METALS CORPORATION (Continued) **1000395229**

Offsite county:	LA PAZ
Offsite province:	Not reported
Offsite country id:	Not reported
Offsite control:	NO
Unit of measure:	Pounds
Offsite other landfills m64 LBS:	250
Offsite other landfills m64 BOE:	Other
Total amount transferred offsite for disposal:	250
Total amount transferred offsite for recycling:	0
Total amount transferred offsite for energy recovery:	0
Total amount transferred offsite for treatment:	0
FRS ID - Transfer Location:	Not reported

TRI ID:	92335VSTMT13425
Cas number:	007440473
Chemical name: CHROMIUM	
Classification:	TRI
Unit of measure:	Pounds
Metal ind:	YES
Revision code 1:	Not reported
Revision code 2:	Not reported
Maximum amount on site:	03
Fugitive air emissions - total release pounds:	Not reported
Fugitive air emissions - total release range code:	A
Total fugitive air emissions:	5
Fugitive air emissions - basis of estimate:	Published Emission Factors
Stack air emissions - release pounds:	Not reported
Stack air emissions - release range code:	A
Total stack air emissions:	5
Stack air emissions - basis of estimate:	On-Site-Specific Emission Factors
Total air emissions:	10
Discharges to stream a - stream name:	Not reported
Total discharges to stream a:	Not reported
Discharges to stream a - basis of estimate:	Not reported
Discharges to stream a - % from stormwater:	Not reported
Discharges to stream b - stream name:	Not reported
Total discharges to stream b:	Not reported
Discharges to stream b - basis of estimate:	Not reported
Discharges to stream b - % from stormwater:	Not reported
Discharges to stream c - stream name:	Not reported
Total discharges to stream c:	Not reported
Discharges to stream c - basis of estimate:	Not reported
Discharges to stream c - % from stormwater:	Not reported
Discharges to stream d - stream name:	Not reported
Total discharges to stream d:	Not reported
Discharges to stream d - basis of estimate:	Not reported
Discharges to stream d - % from stormwater:	Not reported
Discharges to stream e - stream name:	Not reported
Total discharges to stream e:	Not reported
Discharges to stream e - basis of estimate:	Not reported
Discharges to stream e - % from stormwater:	Not reported
Discharges to stream f - stream name:	Not reported
Total discharges to stream f:	Not reported
Discharges to stream f - basis of estimate:	Not reported
Discharges to stream f - % from stormwater:	Not reported
Discharges to stream g - stream name:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Total discharges to stream g:	Not reported
Discharges to stream g - basis of estimate:	Not reported
Discharges to stream g - % from stormwater:	Not reported
Total number of receiving streams:	0
Total surface water discharge:	0
Total on-site underground inj - pounds:	0
On-site underground inj - basis of estimate:	Not reported
Total on-site ugrnd inj to cl i wells - pounds:	0
On-site underground inj to c1 i wells - basis of estimate:	Not reported
Total on-site ugrnd inj to cl ii-v wells - pounds:	0
On-site ungrnd inj to cl ii-v wells - basis of estimate:	Not reported
Total on-site underground injection:	0
Total on-site landfills:	0
On-site landfills - basis of estimate:	Not reported
Total on-site RCRA subtitle c landfills:	0
On-site RCRA subtitle c landfills - basis of estimate:	Not reported
Total other on-site landfills:	0
Other landfills - basis of estimate:	Not reported
Total on-site land treatment:	0
Land trtmt/appl farming - basis of estimate:	Not reported
Total surface impoundments:	0
Surface impoundment - basis of estimate:	Not reported
Total RCRA c surface impoundments:	0
RCRA c Surface impoundment - basis of estimate:	Not reported
Total other surface impoundments:	0
Other surface impoundment - basis of estimate:	Not reported
Total other disposal:	0
Other disposal - basis of estimate:	Not reported
Total on-site land releases:	0
Total on-site releases:	10
Off-site - POTW releases:	0
Off-site - storage only:	0
Off-site - solid/stab - metals:	0
Off-site - wastewater treatment release - metals:	0
Off-site - solid/stab - release - metals:	0
Off-site - wastewater treatment - metals:	0
Off-site - underground injection:	0
Off-site - underground injection - class 1 wells:	0
Off-site - underground injection - class ii-v wells:	0
Off-site - landfills/disposal surface impoundments:	0
Off-site - surface impoundment:	0
Off-site - RCRA subtitle c surface impoundments:	0
Off-site - other surface impoundments:	0
Off-site - other landfills:	250
Off-site - RCRA subtitle c landfills:	0
Off-site - disposal - land treatment:	0
Off-site - disposal - other land disposal:	0
Off-site - disposal - other off-site management:	0
Off-site - disposal - transfer to waste broker:	0
Off-site - disposal - unknown:	0
Total transferred off site for disposal:	250
Off-site - recycling - solvents/organics recovery:	0
Off-site - recycling -metals recovery:	4200
Off-site - recycling - other reuse or recovery:	0
Off-site - recycling - acid regeneration:	0
Off-site - recycling - transfer to waste broker:	0
Total transferred off site for recycling:	4200

VISTA METALS CORPORATION (Continued) **1000395229**

Off-site - energy recovery:	0
Off-site - transfer to waste broker for energy recovery:	0
Total transferred off site for energy recovery:	0
Off-site - POTW treatment:	0
Off-site - solid/stab treatment - non metals:	0
Off-site -incineration/thermal treatment:	0
Off-site - incineration/insignificant heat value:	0
Off-site - wastewater treatment - non-metals:	0
Off-site - other waste treatment:	0
Off-site - transfer to waste broker - waste treatment:	0
Total transferred off site for treatment:	0
Off-site - transfer to waste broker:	0
Total transferred off site for further waste management:	4450
Total POTW transfer:	0
Energy recovery on site current year:	0
Recycled on site current year:	0
Treated on site current year:	0
Total on-site waste management:	0
On-site energy recovery method 1:	Not Applicable
On-site energy recovery method 2:	Not reported
On-site energy recovery method 3:	Not Applicable
On-site energy recovery method 4:	Not reported
On-site recycling processes method 1:	Not Applicable
On-site recycling processes method 2:	Not reported
On-site recycling processes method 3:	Not reported
On-site recycling processes method 4:	Not reported
On-site recycling processes method 5:	Not reported
On-site recycling processes method 6:	Not reported
On-site recycling processes method 7:	Not reported
FRS Facility ID:	110000479312
Elemental Metal Included:	NO
Waste Rock Pile managed Indicator:	0
Waste Rock Quantity:	Not reported
Off Site - POTW Releases 81C:	0
Off Site - POTW Releases 81D:	0

Chemical Activities and Uses:

Cas number:		007440473
Document control number:		1318216843627
Chemical name:	CHROMIUM	
Classification:		TRI
Unit of measure:		Pounds
Produce the chemical:		Yes
Import the chemical:		No
On-site use of the chemical:		No
Sale or distribution of the chemical:		No
As a byproduct:		Yes
As a manufactured impurity:		No
Used as a reactant:		No
P101 feedstocks:		No
P102 raw materials:		No
P103 intermediates:		No
P104 initiators:		No
P199 other:		No
Added as a formulation component:		No
P201 additives:		No
P202 dyes:		No
P203 reaction diluents:		No

VISTA METALS CORPORATION (Continued) **1000395229**

P204 initiators:	No
P205 solvents:	No
P206 inhibitors:	No
P207 emulsifiers:	No
P208 surfactants:	No
P209 lubricants:	No
P210 flame retardants:	No
P211 rheological modifiers:	No
P299 other:	No
Used as an article component:	Yes
Repackaging:	No
As a process impurity:	No
Processed / recycling:	No
Used as a chemical processing aid:	No
Z101 process solvents:	No
Z102 catalysts:	No
Z103 inhibitors:	No
Z104 initiators:	No
Z105 reaction terminators:	No
Z106 solution buffers:	No
Z199 other:	No
Used as a manufacturing aid:	No
Z201 process lubricants:	No
Z202 metalworking fluids:	No
Z203 coolants:	No
Z204 refrigerants:	No
Z205 hydraulic fluids:	No
Z299 other:	No
Ancillary or other use:	No
Z301 cleaner:	No
Z302 degreaser:	No
Z303 lubricant:	No
Z304 fuel:	No
Z305 flame retardant:	No
Z306 waste treatment:	No
Z307 water treatment:	No
Z308 construction materials:	No
Z399 other:	No

Submitted Facility Name:	VISTA METALS CORP.
Submitted Street:	13425 WHITTRAM AVE
Submitted City:	FONTANA
Submitted County:	SAN BERNARDINO
Submitted State:	CA
Submitted Zip Code:	92335
Submitted BIA Code:	Not reported
Submitted Tribe Name:	Not reported
Submitted Parent Company Name:	Not reported
Submitted Parent Company DB Number:	Not reported
Submitted Standardized Parent Company Name:	NA
Submitted Primary NAICS Code:	331314
Submitted Industry Code:	331
Submitted Industry Name:	Primary Metals
Industry Code:	331
Industry Name:	Primary Metals
Last year the facility reported:	2018
First year the facility reported:	1987

VISTA METALS CORPORATION (Continued) **1000395229**

Number of forms submitted:	7
Total number of forms submitted:	185

Detailed Source Reduction Activities and Methods:

Cas number:	007440473
Document control number:	1318216843627
Chemical name: CHROMIUM	
Classification:	TRI
Unit of measure:	Pounds
On-site limited releases - prior year:	0
On-site limited releases - current year:	0
On-site limited releases - following year:	0
On-site limited releases - 2nd-following year:	0
Other on-site releases - prior year:	9
Other on-site releases - current year:	10
Other on-site releases - following year:	10
Other on-site releases - 2nd-following year:	10
Off-site limited releases - prior year:	53
Off-site limited releases - current year:	86
Off-site limited releases - following year:	86
Off-site limited releases - 2nd-following year:	86
Other off-site releases - previous year:	0
Other off-site releases - current year:	0
Other off-site releases - following year:	0
Other off-site releases - 2nd-following year:	0
Energy recovery on site prior year:	0
Energy recovery on site current year:	0
Energy recovery on site following year:	0
Energy recovery on site 2nd-following year:	0
Energy recovery off site prior year:	0
Energy recovery off site current year:	0
Energy recovery off site following year:	0
Energy recovery off site 2nd-following year:	0
Quantity recycled on site prior year:	0
Quantity recycled on site current year:	0
Quantity recycled on site following year:	0
Quantity recycled on site 2nd-following year:	0
Quantity recycled off site prior year:	3300
Quantity recycled off site current year:	4200
Quantity recycled off site following year:	4200
Quantity recycled off site 2nd-following year:	4200
Quantity treated on site prior year:	0
Quantity treated on site current year:	0
Quantity treated on site following year:	0
Quantity treated on site 2nd-following year:	0
Quantity treated off site prior year:	0
Quantity treated off site current year:	0
Quantity treated off site following year:	0
Quantity treated off site 2nd-following year:	0
Catastrophic releases or other one-time events:	Not reported
Prod ratio/activity index:	1.09
Prod ratio or activity:	PRODUCTION
1st SR reduction activity:	NA-Na
1st SR activity ID meth code and desc 1:	Not reported
1st SR activity ID meth code and desc 2:	Not reported
1st SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 1st source REDN act code and desc:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

2nd SR activity code and desc:	Not reported
2nd SR activity ID meth code and desc 1:	Not reported
2nd SR activity ID meth code and desc 2:	Not reported
2nd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 2nd source REDN act code and desc:	Not reported
3rd SR activity code and desc:	Not reported
3rd SR activity ID meth code and desc 1:	Not reported
3rd SR activity ID meth code and desc 2:	Not reported
3rd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 3rd source REDN act code and desc:	Not reported
4th SR activity code and desc:	Not reported
4th SR activity ID meth code and desc 1:	Not reported
4th SR activity ID meth code and desc 2:	Not reported
4th SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 4th source REDN act code and desc:	Not reported

Detailed On-site Waste Treatment Methods and Efficiency:

Cas number:	007440473
Document control number:	1318216843627
Chemical name: CHROMIUM	
Classification:	TRI
Unit of measure:	Pounds
Stream 1 - waste stream code:	Gaseous (gases, vapors, airborne particulates)
Stream 1 - trtmt method - sequence 1:	Other Air Emission Treatment
Stream 1 - trtmt method - sequence 2:	Not reported
Stream 1 - trtmt method - sequence 3:	Not reported
Stream 1 - trtmt method - sequence 4:	Not reported
Stream 1 - trtmt method - sequence 5:	Not reported
Stream 1 - trtmt method - sequence 6:	Not reported
Stream 1 - trtmt method - sequence 7:	Not reported
Stream 1 - trtmt method - sequence 8:	Not reported
Stream 1 - based on operating data:	NO
Stream 2 - waste stream code:	Not reported
Stream 2 - trtmt method - sequence 1:	Not reported
Stream 2 - trtmt method - sequence 2:	Not reported
Stream 2 - trtmt method - sequence 3:	Not reported
Stream 2 - trtmt method - sequence 4:	Not reported
Stream 2 - trtmt method - sequence 5:	Not reported
Stream 2 - trtmt method - sequence 6:	Not reported
Stream 2 - trtmt method - sequence 7:	Not reported
Stream 2 - trtmt method - sequence 8:	Not reported
Stream 2 - based on operating data:	Not reported
Stream 3 - waste stream code:	Not reported
Stream 3 - trtmt method - sequence 1:	Not reported
Stream 3 - trtmt method - sequence 2:	Not reported
Stream 3 - trtmt method - sequence 3:	Not reported
Stream 3 - trtmt method - sequence 4:	Not reported
Stream 3 - trtmt method - sequence 5:	Not reported
Stream 3 - trtmt method - sequence 6:	Not reported
Stream 3 - trtmt method - sequence 7:	Not reported
Stream 3 - trtmt method - sequence 8:	Not reported
Stream 3 - based on operating data:	Not reported
Stream 4 - waste stream code:	Not reported
Stream 4 - trtmt method - sequence 1:	Not reported
Stream 4 - trtmt method - sequence 2:	Not reported
Stream 4 - trtmt method - sequence 3:	Not reported
Stream 4 - trtmt method - sequence 4:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Stream 4 - trtmt method - sequence 5:	Not reported
Stream 4 - trtmt method - sequence 6:	Not reported
Stream 4 - trtmt method - sequence 7:	Not reported
Stream 4 - trtmt method - sequence 8:	Not reported
Stream 4 - based on operating data:	Not reported
Stream 5 - waste stream code:	Not reported
Stream 5 - trtmt method - sequence 1:	Not reported
Stream 5 - trtmt method - sequence 2:	Not reported
Stream 5 - trtmt method - sequence 3:	Not reported
Stream 5 - trtmt method - sequence 4:	Not reported
Stream 5 - trtmt method - sequence 5:	Not reported
Stream 5 - trtmt method - sequence 6:	Not reported
Stream 5 - trtmt method - sequence 7:	Not reported
Stream 5 - trtmt method - sequence 8:	Not reported
Stream 5 - based on operating data:	Not reported

Details of Off-site Transfers:

Cas number:	007440473
Document control number:	1318216843627
Chemical name: CHROMIUM	
Classification:	TRI
Offsite RCRA id nr:	NA
Offsite transfer sequence number:	1
Offsite name:	IMSAMET OF ARIZONA
Offsite street address:	3839 S. ESTRELLA PARKWAY
Offsite City,State,Zip:	GOODYEAR, AZ 85338
Offsite county:	MARICOPA
Offsite province:	Not reported
Offsite country id:	Not reported
Offsite control:	NO
Unit of measure:	Pounds
Total amount transferred offsite for disposal:	0
Offsite metals recovery m24 LBS:	4200
Offsite metals recovery m24 BOE:	Other
Total amount transferred offsite for recycling:	4200
Total amount transferred offsite for energy recovery:	0
Total amount transferred offsite for treatment:	0
FRS ID - Transfer Location:	Not reported

Offsite RCRA id nr:	AZC950823111
Offsite transfer sequence number:	2
Offsite name:	LA PAZ COUNTY LANDFILL
Offsite street address:	26999 HIGHWAY 95 MILEPOST 128
Offsite City,State,Zip:	PARKER, AZ 85344
Offsite county:	LA PAZ
Offsite province:	Not reported
Offsite country id:	Not reported
Offsite control:	NO
Unit of measure:	Pounds
Offsite other landfills m64 LBS:	250
Offsite other landfills m64 BOE:	Other
Total amount transferred offsite for disposal:	250
Total amount transferred offsite for recycling:	0
Total amount transferred offsite for energy recovery:	0
Total amount transferred offsite for treatment:	0
FRS ID - Transfer Location:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

TRI ID:	92335VSTMT13425
Cas number:	007429905
Chemical name:	ALUMINUM (FUME OR DUST)
Classification:	TRI
Unit of measure:	Pounds
Metal ind:	YES
Revision code 1:	Not reported
Revision code 2:	Not reported
Maximum amount on site:	04
Fugitive air emissions - total release pounds:	4000
Fugitive air emissions - total release range code:	Not reported
Total fugitive air emissions:	4000
Fugitive air emissions - basis of estimate:	Published Emission Factors
Stack air emissions - release pounds:	5000
Stack air emissions - release range code:	Not reported
Total stack air emissions:	5000
Stack air emissions - basis of estimate:	On-Site-Specific Emission Factors
Total air emissions:	9000
Discharges to stream a - stream name:	Not reported
Total discharges to stream a:	Not reported
Discharges to stream a - basis of estimate:	Not reported
Discharges to stream a - % from stormwater:	Not reported
Discharges to stream b - stream name:	Not reported
Total discharges to stream b:	Not reported
Discharges to stream b - basis of estimate:	Not reported
Discharges to stream b - % from stormwater:	Not reported
Discharges to stream c - stream name:	Not reported
Total discharges to stream c:	Not reported
Discharges to stream c - basis of estimate:	Not reported
Discharges to stream c - % from stormwater:	Not reported
Discharges to stream d - stream name:	Not reported
Total discharges to stream d:	Not reported
Discharges to stream d - basis of estimate:	Not reported
Discharges to stream d - % from stormwater:	Not reported
Discharges to stream e - stream name:	Not reported
Total discharges to stream e:	Not reported
Discharges to stream e - basis of estimate:	Not reported
Discharges to stream e - % from stormwater:	Not reported
Discharges to stream f - stream name:	Not reported
Total discharges to stream f:	Not reported
Discharges to stream f - basis of estimate:	Not reported
Discharges to stream f - % from stormwater:	Not reported
Discharges to stream g - stream name:	Not reported
Total discharges to stream g:	Not reported
Discharges to stream g - basis of estimate:	Not reported
Discharges to stream g - % from stormwater:	Not reported
Total number of receiving streams:	0
Total surface water discharge:	0
Total on-site underground inj - pounds:	0
On-site underground inj - basis of estimate:	Not reported
Total on-site ugrnd inj to cl i wells - pounds:	0
On-site underground inj to c1 i wells - basis of estimate:	Not reported
Total on-site ugrnd inj to cl ii-v wells - pounds:	0
On-site ungrnd inj to cl ii-v wells - basis of estimate:	Not reported
Total on-site underground injection:	0
Total on-site landfills:	0
On-site landfills - basis of estimate:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Total on-site RCRA subtitle c landfills:	0
On-site RCRA subtitle c landfills - basis of estimate:	Not reported
Total other on-site landfills:	0
Other landfills - basis of estimate:	Not reported
Total on-site land treatment:	0
Land trtmt/appl farming - basis of estimate:	Not reported
Total surface impoundments:	0
Surface impoundment - basis of estimate:	Not reported
Total RCRA c surface impoundments:	0
RCRA c Surface impoundment - basis of estimate:	Not reported
Total other surface impoundments:	0
Other surface impoundment - basis of estimate:	Not reported
Total other disposal:	0
Other disposal - basis of estimate:	Not reported
Total on-site land releases:	0
Total on-site releases:	9000
Off-site - POTW releases:	0
Off-site - storage only:	0
Off-site - solid/stab - metals:	0
Off-site - wastewater treatment release - metals:	0
Off-site - solid/stab - release - metals:	0
Off-site - wastewater treatment - metals:	0
Off-site - underground injection:	0
Off-site - underground injection - class 1 wells:	0
Off-site - underground injection - class ii-v wells:	0
Off-site - landfills/disposal surface impoundments:	0
Off-site - surface impoundment:	0
Off-site - RCRA subtitle c surface impoundments:	0
Off-site - other surface impoundments:	0
Off-site - other landfills:	32600
Off-site - RCRA subtitle c landfills:	0
Off-site - disposal - land treatment:	0
Off-site - disposal - other land disposal:	0
Off-site - disposal - other off-site management:	0
Off-site - disposal - transfer to waste broker:	0
Off-site - disposal - unknown:	0
Total transferred off site for disposal:	32600
Off-site - recycling - solvents/organics recovery:	0
Off-site - recycling -metals recovery:	0
Off-site - recycling - other reuse or recovery:	0
Off-site - recycling - acid regeneration:	0
Off-site - recycling - transfer to waste broker:	0
Total transferred off site for recycling:	0
Off-site - energy recovery:	0
Off-site - transfer to waste broker for energy recovery:	0
Total transferred off site for energy recovery:	0
Off-site - POTW treatment:	0
Off-site - solid/stab treatment - non metals:	0
Off-site -incineration/thermal treatment:	0
Off-site - incineration/insignificant heat value:	0
Off-site - wastewater treatment - non-metals:	0
Off-site - other waste treatment:	0
Off-site - transfer to waste broker - waste treatment:	0
Total transferred off site for treatment:	0
Off-site - transfer to waste broker:	0
Total transferred off site for further waste management:	32600
Total POTW transfer:	0

VISTA METALS CORPORATION (Continued) **1000395229**

Energy recovery on site current year:	0
Recycled on site current year:	0
Treated on site current year:	0
Total on-site waste management:	0
On-site energy recovery method 1:	Not Applicable
On-site energy recovery method 2:	Not reported
On-site energy recovery method 3:	Not Applicable
On-site energy recovery method 4:	Not reported
On-site recycling processes method 1:	Not Applicable
On-site recycling processes method 2:	Not reported
On-site recycling processes method 3:	Not reported
On-site recycling processes method 4:	Not reported
On-site recycling processes method 5:	Not reported
On-site recycling processes method 6:	Not reported
On-site recycling processes method 7:	Not reported
FRS Facility ID:	110000479312
Elemental Metal Included:	NO
Waste Rock Pile managed Indicator:	0
Waste Rock Quantity:	Not reported
Off Site - POTW Releases 81C:	0
Off Site - POTW Releases 81D:	0

Chemical Activities and Uses:

Cas number:	007429905
Document control number:	1318216843615
Chemical name:	ALUMINUM (FUME OR DUST)
Classification:	TRI
Unit of measure:	Pounds
Produce the chemical:	Yes
Import the chemical:	No
On-site use of the chemical:	No
Sale or distribution of the chemical:	No
As a byproduct:	Yes
As a manufactured impurity:	No
Used as a reactant:	No
P101 feedstocks:	No
P102 raw materials:	No
P103 intermediates:	No
P104 initiators:	No
P199 other:	No
Added as a formulation component:	No
P201 additives:	No
P202 dyes:	No
P203 reaction diluents:	No
P204 initiators:	No
P205 solvents:	No
P206 inhibitors:	No
P207 emulsifiers:	No
P208 surfactants:	No
P209 lubricants:	No
P210 flame retardants:	No
P211 rheological modifiers:	No
P299 other:	No
Used as an article component:	No
Repackaging:	No
As a process impurity:	No
Processed / recycling:	No
Used as a chemical processing aid:	No

VISTA METALS CORPORATION (Continued) **1000395229**

Z101 process solvents:	No
Z102 catalysts:	No
Z103 inhibitors:	No
Z104 initiators:	No
Z105 reaction terminators:	No
Z106 solution buffers:	No
Z199 other:	No
Used as a manufacturing aid:	No
Z201 process lubricants:	No
Z202 metalworking fluids:	No
Z203 coolants:	No
Z204 refrigerants:	No
Z205 hydraulic fluids:	No
Z299 other:	No
Ancillary or other use:	No
Z301 cleaner:	No
Z302 degreaser:	No
Z303 lubricant:	No
Z304 fuel:	No
Z305 flame retardant:	No
Z306 waste treatment:	No
Z307 water treatment:	No
Z308 construction materials:	No
Z399 other:	No

Submitted Facility Name:	VISTA METALS CORP.
Submitted Street:	13425 WHITTRAM AVE
Submitted City:	FONTANA
Submitted County:	SAN BERNARDINO
Submitted State:	CA
Submitted Zip Code:	92335
Submitted BIA Code:	Not reported
Submitted Tribe Name:	Not reported
Submitted Parent Company Name:	Not reported
Submitted Parent Company DB Number:	Not reported
Submitted Standardized Parent Company Name:	NA
Submitted Primary NAICS Code:	331314
Submitted Industry Code:	331
Submitted Industry Name:	Primary Metals
Industry Code:	331
Industry Name:	Primary Metals
Last year the facility reported:	2018
First year the facility reported:	1987
Number of forms submitted:	7
Total number of forms submitted:	185

Detailed Source Reduction Activities and Methods:

Cas number:	007429905
Document control number:	1318216843615
Chemical name:	ALUMINUM (FUME OR DUST)
Classification:	TRI
Unit of measure:	Pounds
On-site limited releases - prior year:	0
On-site limited releases - current year:	0
On-site limited releases - following year:	0
On-site limited releases - 2nd-following year:	0
Other on-site releases - prior year:	8600

VISTA METALS CORPORATION (Continued) **1000395229**

Other on-site releases - current year:	9000
Other on-site releases - following year:	9000
Other on-site releases - 2nd-following year:	9000
Off-site limited releases - prior year:	22000
Off-site limited releases - current year:	32600
Off-site limited releases - following year:	32600
Off-site limited releases - 2nd-following year:	32600
Other off-site releases - previous year:	0
Other off-site releases - current year:	0
Other off-site releases - following year:	0
Other off-site releases - 2nd-following year:	0
Energy recovery on site prior year:	0
Energy recovery on site current year:	0
Energy recovery on site following year:	0
Energy recovery on site 2nd-following year:	0
Energy recovery off site prior year:	0
Energy recovery off site current year:	0
Energy recovery off site following year:	0
Energy recovery off site 2nd-following year:	0
Quantity recycled on site prior year:	0
Quantity recycled on site current year:	0
Quantity recycled on site following year:	0
Quantity recycled on site 2nd-following year:	0
Quantity recycled off site prior year:	0
Quantity recycled off site current year:	0
Quantity recycled off site following year:	0
Quantity recycled off site 2nd-following year:	0
Quantity treated on site prior year:	0
Quantity treated on site current year:	0
Quantity treated on site following year:	0
Quantity treated on site 2nd-following year:	0
Quantity treated off site prior year:	0
Quantity treated off site current year:	0
Quantity treated off site following year:	0
Quantity treated off site 2nd-following year:	0
Catastrophic releases or other one-time events:	Not reported
Prod ratio/activity index:	1.09
Prod ratio or activity:	PRODUCTION
1st SR reduction activity:	NA-Na
1st SR activity ID meth code and desc 1:	Not reported
1st SR activity ID meth code and desc 2:	Not reported
1st SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 1st source REDN act code and desc:	Not reported
2nd SR activity code and desc:	Not reported
2nd SR activity ID meth code and desc 1:	Not reported
2nd SR activity ID meth code and desc 2:	Not reported
2nd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 2nd source REDN act code and desc:	Not reported
3rd SR activity code and desc:	Not reported
3rd SR activity ID meth code and desc 1:	Not reported
3rd SR activity ID meth code and desc 2:	Not reported
3rd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 3rd source REDN act code and desc:	Not reported
4th SR activity code and desc:	Not reported
4th SR activity ID meth code and desc 1:	Not reported
4th SR activity ID meth code and desc 2:	Not reported
4th SR activity ID meth code and desc 3:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

EST Ann REDN 4th source REDN act code and desc: Not reported

Detailed On-site Waste Treatment Methods and Efficiency:

Cas number:	007429905
Document control number:	1318216843615
Chemical name:	ALUMINUM (FUME OR DUST)
Classification:	TRI
Unit of measure:	Pounds
Stream 1 - waste stream code:	Gaseous (gases, vapors, airborne particulates)
Stream 1 - trtmt method - sequence 1:	Other Air Emission Treatment
Stream 1 - trtmt method - sequence 2:	Not reported
Stream 1 - trtmt method - sequence 3:	Not reported
Stream 1 - trtmt method - sequence 4:	Not reported
Stream 1 - trtmt method - sequence 5:	Not reported
Stream 1 - trtmt method - sequence 6:	Not reported
Stream 1 - trtmt method - sequence 7:	Not reported
Stream 1 - trtmt method - sequence 8:	Not reported
Stream 1 - based on operating data:	NO
Stream 2 - waste stream code:	Not reported
Stream 2 - trtmt method - sequence 1:	Not reported
Stream 2 - trtmt method - sequence 2:	Not reported
Stream 2 - trtmt method - sequence 3:	Not reported
Stream 2 - trtmt method - sequence 4:	Not reported
Stream 2 - trtmt method - sequence 5:	Not reported
Stream 2 - trtmt method - sequence 6:	Not reported
Stream 2 - trtmt method - sequence 7:	Not reported
Stream 2 - trtmt method - sequence 8:	Not reported
Stream 2 - based on operating data:	Not reported
Stream 3 - waste stream code:	Not reported
Stream 3 - trtmt method - sequence 1:	Not reported
Stream 3 - trtmt method - sequence 2:	Not reported
Stream 3 - trtmt method - sequence 3:	Not reported
Stream 3 - trtmt method - sequence 4:	Not reported
Stream 3 - trtmt method - sequence 5:	Not reported
Stream 3 - trtmt method - sequence 6:	Not reported
Stream 3 - trtmt method - sequence 7:	Not reported
Stream 3 - trtmt method - sequence 8:	Not reported
Stream 3 - based on operating data:	Not reported
Stream 4 - waste stream code:	Not reported
Stream 4 - trtmt method - sequence 1:	Not reported
Stream 4 - trtmt method - sequence 2:	Not reported
Stream 4 - trtmt method - sequence 3:	Not reported
Stream 4 - trtmt method - sequence 4:	Not reported
Stream 4 - trtmt method - sequence 5:	Not reported
Stream 4 - trtmt method - sequence 6:	Not reported
Stream 4 - trtmt method - sequence 7:	Not reported
Stream 4 - trtmt method - sequence 8:	Not reported
Stream 4 - based on operating data:	Not reported
Stream 5 - waste stream code:	Not reported
Stream 5 - trtmt method - sequence 1:	Not reported
Stream 5 - trtmt method - sequence 2:	Not reported
Stream 5 - trtmt method - sequence 3:	Not reported
Stream 5 - trtmt method - sequence 4:	Not reported
Stream 5 - trtmt method - sequence 5:	Not reported
Stream 5 - trtmt method - sequence 6:	Not reported
Stream 5 - trtmt method - sequence 7:	Not reported
Stream 5 - trtmt method - sequence 8:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Stream 5 - based on operating data: Not reported

Details of Off-site Transfers:

Cas number:	007429905
Document control number:	1318216843615
Chemical name:	ALUMINUM (FUME OR DUST)
Classification:	TRI
Offsite RCRA id nr:	AZC950823111
Offsite transfer sequence number:	1
Offsite name:	LA PAZ COUNTY LANDFILL
Offsite street address:	26999 HIGHWAY 95 MILEPOST 128
Offsite City,State,Zip:	PARKER, AZ 85344
Offsite county:	LA PAZ
Offsite province:	Not reported
Offsite country id:	Not reported
Offsite control:	NO
Unit of measure:	Pounds
Offsite other landfills m64 LBS:	32600
Offsite other landfills m64 BOE:	Other
Total amount transferred offsite for disposal:	32600
Total amount transferred offsite for recycling:	0
Total amount transferred offsite for energy recovery:	0
Total amount transferred offsite for treatment:	0
FRS ID - Transfer Location:	Not reported

TRI ID:	92335VSTMT13425
Cas number:	007440508
Chemical name:	COPPER
Classification:	TRI
Unit of measure:	Pounds
Metal ind:	YES
Revision code 1:	Not reported
Revision code 2:	Not reported
Maximum amount on site:	05
Fugitive air emissions - total release pounds:	Not reported
Fugitive air emissions - total release range code:	B
Total fugitive air emissions:	250
Fugitive air emissions - basis of estimate:	Published Emission Factors
Stack air emissions - release pounds:	Not reported
Stack air emissions - release range code:	B
Total stack air emissions:	250
Stack air emissions - basis of estimate:	On-Site-Specific Emission Factors
Total air emissions:	500
Discharges to stream a - stream name:	EAST ETIWANDA CREEK
Total discharges to stream a:	0
Discharges to stream a - basis of estimate:	Periodic/Random Monotoning Data
Discharges to stream a - % from stormwater:	100
Discharges to stream b - stream name:	Not reported
Total discharges to stream b:	Not reported
Discharges to stream b - basis of estimate:	Not reported
Discharges to stream b - % from stormwater:	Not reported
Discharges to stream c - stream name:	Not reported
Total discharges to stream c:	Not reported
Discharges to stream c - basis of estimate:	Not reported
Discharges to stream c - % from stormwater:	Not reported
Discharges to stream d - stream name:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Total discharges to stream d:	Not reported
Discharges to stream d - basis of estimate:	Not reported
Discharges to stream d - % from stormwater:	Not reported
Discharges to stream e - stream name:	Not reported
Total discharges to stream e:	Not reported
Discharges to stream e - basis of estimate:	Not reported
Discharges to stream e - % from stormwater:	Not reported
Discharges to stream f - stream name:	Not reported
Total discharges to stream f:	Not reported
Discharges to stream f - basis of estimate:	Not reported
Discharges to stream f - % from stormwater:	Not reported
Discharges to stream g - stream name:	Not reported
Total discharges to stream g:	Not reported
Discharges to stream g - basis of estimate:	Not reported
Discharges to stream g - % from stormwater:	Not reported
Total number of receiving streams:	1
Total surface water discharge:	0
Total on-site underground inj - pounds:	0
On-site underground inj - basis of estimate:	Not reported
Total on-site ugrnd inj to cl i wells - pounds:	0
On-site underground inj to c1 i wells - basis of estimate:	Not reported
Total on-site ugrnd inj to cl ii-v wells - pounds:	0
On-site ungrnd inj to cl ii-v wells - basis of estimate:	Not reported
Total on-site underground injection:	0
Total on-site landfills:	0
On-site landfills - basis of estimate:	Not reported
Total on-site RCRA subtitle c landfills:	0
On-site RCRA subtitle c landfills - basis of estimate:	Not reported
Total other on-site landfills:	0
Other landfills - basis of estimate:	Not reported
Total on-site land treatment:	0
Land trtmt/appl farming - basis of estimate:	Not reported
Total surface impoundments:	0
Surface impoundment - basis of estimate:	Not reported
Total RCRA c surface impoundments:	0
RCRA c Surface impoundment - basis of estimate:	Not reported
Total other surface impoundments:	0
Other surface impoundment - basis of estimate:	Not reported
Total other disposal:	5
Other disposal - basis of estimate:	Other
Total on-site land releases:	5
Total on-site releases:	505
Off-site - POTW releases:	0
Off-site - storage only:	0
Off-site - solid/stab - metals:	0
Off-site - wastewater treatment release - metals:	0
Off-site - solid/stab - release - metals:	0
Off-site - wastewater treatment - metals:	0
Off-site - underground injection:	0
Off-site - underground injection - class 1 wells:	0
Off-site - underground injection - class ii-v wells:	0
Off-site - landfills/disposal surface impoundments:	0
Off-site - surface impoundment:	0
Off-site - RCRA subtitle c surface impoundments:	0
Off-site - other surface impoundments:	0
Off-site - other landfills:	250
Off-site - RCRA subtitle c landfills:	0

VISTA METALS CORPORATION (Continued) **1000395229**

Off-site - disposal - land treatment:	0
Off-site - disposal - other land disposal:	0
Off-site - disposal - other off-site management:	0
Off-site - disposal - transfer to waste broker:	0
Off-site - disposal - unknown:	0
Total transferred off site for disposal:	250
Off-site - recycling - solvents/organics recovery:	0
Off-site - recycling -metals recovery:	9800
Off-site - recycling - other reuse or recovery:	0
Off-site - recycling - acid regeneration:	0
Off-site - recycling - transfer to waste broker:	0
Total transferred off site for recycling:	9800
Off-site - energy recovery:	0
Off-site - transfer to waste broker for energy recovery:	0
Total transferred off site for energy recovery:	0
Off-site - POTW treatment:	0
Off-site - solid/stab treatment - non metals:	0
Off-site -incineration/thermal treatment:	0
Off-site - incineration/insignificant heat value:	0
Off-site - wastewater treatment - non-metals:	0
Off-site - other waste treatment:	0
Off-site - transfer to waste broker - waste treatment:	0
Total transferred off site for treatment:	0
Off-site - transfer to waste broker:	0
Total transferred off site for further waste management:	10050
Total POTW transfer:	0
Energy recovery on site current year:	0
Recycled on site current year:	0
Treated on site current year:	0
Total on-site waste management:	0
On-site energy recovery method 1:	Not Applicable
On-site energy recovery method 2:	Not reported
On-site energy recovery method 3:	Not Applicable
On-site energy recovery method 4:	Not reported
On-site recycling processes method 1:	Not Applicable
On-site recycling processes method 2:	Not reported
On-site recycling processes method 3:	Not reported
On-site recycling processes method 4:	Not reported
On-site recycling processes method 5:	Not reported
On-site recycling processes method 6:	Not reported
On-site recycling processes method 7:	Not reported
FRS Facility ID:	110000479312
Elemental Metal Included:	NO
Waste Rock Pile managed Indicator:	0
Waste Rock Quantity:	Not reported
Off Site - POTW Releases 81C:	0
Off Site - POTW Releases 81D:	0

Chemical Activities and Uses:

Cas number:		007440508
Document control number:		1318216843639
Chemical name:	COPPER	
Classification:		TRI
Unit of measure:		Pounds
Produce the chemical:		Yes
Import the chemical:		No
On-site use of the chemical:		No
Sale or distribution of the chemical:		No

VISTA METALS CORPORATION (Continued) **1000395229**

As a byproduct:	Yes
As a manufactured impurity:	No
Used as a reactant:	No
P101 feedstocks:	No
P102 raw materials:	No
P103 intermediates:	No
P104 initiators:	No
P199 other:	No
Added as a formulation component:	No
P201 additives:	No
P202 dyes:	No
P203 reaction diluents:	No
P204 initiators:	No
P205 solvents:	No
P206 inhibitors:	No
P207 emulsifiers:	No
P208 surfactants:	No
P209 lubricants:	No
P210 flame retardants:	No
P211 rheological modifiers:	No
P299 other:	No
Used as an article component:	Yes
Repackaging:	No
As a process impurity:	No
Processed / recycling:	No
Used as a chemical processing aid:	No
Z101 process solvents:	No
Z102 catalysts:	No
Z103 inhibitors:	No
Z104 initiators:	No
Z105 reaction terminators:	No
Z106 solution buffers:	No
Z199 other:	No
Used as a manufacturing aid:	No
Z201 process lubricants:	No
Z202 metalworking fluids:	No
Z203 coolants:	No
Z204 refrigerants:	No
Z205 hydraulic fluids:	No
Z299 other:	No
Ancillary or other use:	No
Z301 cleaner:	No
Z302 degreaser:	No
Z303 lubricant:	No
Z304 fuel:	No
Z305 flame retardant:	No
Z306 waste treatment:	No
Z307 water treatment:	No
Z308 construction materials:	No
Z399 other:	No

Submitted Facility Name:	VISTA METALS CORP.
Submitted Street:	13425 WHITTRAM AVE
Submitted City:	FONTANA
Submitted County:	SAN BERNARDINO
Submitted State:	CA
Submitted Zip Code:	92335

VISTA METALS CORPORATION (Continued) **1000395229**

Submitted BIA Code:	Not reported
Submitted Tribe Name:	Not reported
Submitted Parent Company Name:	Not reported
Submitted Parent Company DB Number:	Not reported
Submitted Standardized Parent Company Name:	NA
Submitted Primary NAICS Code:	331314
Submitted Industry Code:	331
Submitted Industry Name:	Primary Metals
Industry Code:	331
Industry Name:	Primary Metals
Last year the facility reported:	2018
First year the facility reported:	1987
Number of forms submitted:	7
Total number of forms submitted:	185

Detailed Source Reduction Activities and Methods:

Cas number:	007440508
Document control number:	1318216843639
Chemical name: COPPER	
Classification:	TRI
Unit of measure:	Pounds
On-site limited releases - prior year:	0
On-site limited releases - current year:	0
On-site limited releases - following year:	0
On-site limited releases - 2nd-following year:	0
Other on-site releases - prior year:	143
Other on-site releases - current year:	153
Other on-site releases - following year:	153
Other on-site releases - 2nd-following year:	153
Off-site limited releases - prior year:	81
Off-site limited releases - current year:	130
Off-site limited releases - following year:	130
Off-site limited releases - 2nd-following year:	130
Other off-site releases - previous year:	0
Other off-site releases - current year:	0
Other off-site releases - following year:	0
Other off-site releases - 2nd-following year:	0
Energy recovery on site prior year:	0
Energy recovery on site current year:	0
Energy recovery on site following year:	0
Energy recovery on site 2nd-following year:	0
Energy recovery off site prior year:	0
Energy recovery off site current year:	0
Energy recovery off site following year:	0
Energy recovery off site 2nd-following year:	0
Quantity recycled on site prior year:	0
Quantity recycled on site current year:	0
Quantity recycled on site following year:	0
Quantity recycled on site 2nd-following year:	0
Quantity recycled off site prior year:	7900
Quantity recycled off site current year:	9800
Quantity recycled off site following year:	9800
Quantity recycled off site 2nd-following year:	9800
Quantity treated on site prior year:	0
Quantity treated on site current year:	0
Quantity treated on site following year:	0
Quantity treated on site 2nd-following year:	0

VISTA METALS CORPORATION (Continued) **1000395229**

Quantity treated off site prior year:	0
Quantity treated off site current year:	0
Quantity treated off site following year:	0
Quantity treated off site 2nd-following year:	0
Catastrophic releases or other one-time events:	Not reported
Prod ratio/activity index:	1.09
Prod ratio or activity:	PRODUCTION
1st SR reduction activity:	NA-Na
1st SR activity ID meth code and desc 1:	Not reported
1st SR activity ID meth code and desc 2:	Not reported
1st SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 1st source REDN act code and desc:	Not reported
2nd SR activity code and desc:	Not reported
2nd SR activity ID meth code and desc 1:	Not reported
2nd SR activity ID meth code and desc 2:	Not reported
2nd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 2nd source REDN act code and desc:	Not reported
3rd SR activity code and desc:	Not reported
3rd SR activity ID meth code and desc 1:	Not reported
3rd SR activity ID meth code and desc 2:	Not reported
3rd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 3rd source REDN act code and desc:	Not reported
4th SR activity code and desc:	Not reported
4th SR activity ID meth code and desc 1:	Not reported
4th SR activity ID meth code and desc 2:	Not reported
4th SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 4th source REDN act code and desc:	Not reported

Detailed On-site Waste Treatment Methods and Efficiency:

Cas number:	007440508
Document control number:	1318216843639
Chemical name: COPPER	
Classification:	TRI
Unit of measure:	Pounds
Stream 1 - waste stream code:	Gaseous (gases, vapors, airborne particulates)
Stream 1 - trtmt method - sequence 1:	Other Air Emission Treatment
Stream 1 - trtmt method - sequence 2:	Not reported
Stream 1 - trtmt method - sequence 3:	Not reported
Stream 1 - trtmt method - sequence 4:	Not reported
Stream 1 - trtmt method - sequence 5:	Not reported
Stream 1 - trtmt method - sequence 6:	Not reported
Stream 1 - trtmt method - sequence 7:	Not reported
Stream 1 - trtmt method - sequence 8:	Not reported
Stream 1 - based on operating data:	NO
Stream 2 - waste stream code:	Not reported
Stream 2 - trtmt method - sequence 1:	Not reported
Stream 2 - trtmt method - sequence 2:	Not reported
Stream 2 - trtmt method - sequence 3:	Not reported
Stream 2 - trtmt method - sequence 4:	Not reported
Stream 2 - trtmt method - sequence 5:	Not reported
Stream 2 - trtmt method - sequence 6:	Not reported
Stream 2 - trtmt method - sequence 7:	Not reported
Stream 2 - trtmt method - sequence 8:	Not reported
Stream 2 - based on operating data:	Not reported
Stream 3 - waste stream code:	Not reported
Stream 3 - trtmt method - sequence 1:	Not reported
Stream 3 - trtmt method - sequence 2:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Stream 3 - trtmt method - sequence 3:	Not reported
Stream 3 - trtmt method - sequence 4:	Not reported
Stream 3 - trtmt method - sequence 5:	Not reported
Stream 3 - trtmt method - sequence 6:	Not reported
Stream 3 - trtmt method - sequence 7:	Not reported
Stream 3 - trtmt method - sequence 8:	Not reported
Stream 3 - based on operating data:	Not reported
Stream 4 - waste stream code:	Not reported
Stream 4 - trtmt method - sequence 1:	Not reported
Stream 4 - trtmt method - sequence 2:	Not reported
Stream 4 - trtmt method - sequence 3:	Not reported
Stream 4 - trtmt method - sequence 4:	Not reported
Stream 4 - trtmt method - sequence 5:	Not reported
Stream 4 - trtmt method - sequence 6:	Not reported
Stream 4 - trtmt method - sequence 7:	Not reported
Stream 4 - trtmt method - sequence 8:	Not reported
Stream 4 - based on operating data:	Not reported
Stream 5 - waste stream code:	Not reported
Stream 5 - trtmt method - sequence 1:	Not reported
Stream 5 - trtmt method - sequence 2:	Not reported
Stream 5 - trtmt method - sequence 3:	Not reported
Stream 5 - trtmt method - sequence 4:	Not reported
Stream 5 - trtmt method - sequence 5:	Not reported
Stream 5 - trtmt method - sequence 6:	Not reported
Stream 5 - trtmt method - sequence 7:	Not reported
Stream 5 - trtmt method - sequence 8:	Not reported
Stream 5 - based on operating data:	Not reported

Details of Off-site Transfers:

Cas number:	007440508
Document control number:	1318216843639
Chemical name: COPPER	
Classification:	TRI
Offsite RCRA id nr:	NA
Offsite transfer sequence number:	1
Offsite name:	IMSAMET OF ARIZONA
Offsite street address:	3839 S. ESTRELLA PARKWAY
Offsite City,State,Zip:	GOODYEAR, AZ 85338
Offsite county:	MARICOPA
Offsite province:	Not reported
Offsite country id:	Not reported
Offsite control:	NO
Unit of measure:	Pounds
Total amount transferred offsite for disposal:	0
Offsite metals recovery m24 LBS:	9800
Offsite metals recovery m24 BOE:	Other
Total amount transferred offsite for recycling:	9800
Total amount transferred offsite for energy recovery:	0
Total amount transferred offsite for treatment:	0
FRS ID - Transfer Location:	Not reported

Offsite RCRA id nr:	AZC950823111
Offsite transfer sequence number:	2
Offsite name:	LA PAZ COUNTY LANDFILL
Offsite street address:	26999 HIGHWAY 95 MILEPOST 128
Offsite City,State,Zip:	PARKER, AZ 85344
Offsite county:	LA PAZ

VISTA METALS CORPORATION (Continued) **1000395229**

Offsite province:	Not reported
Offsite country id:	Not reported
Offsite control:	NO
Unit of measure:	Pounds
Offsite other landfills m64 LBS:	250
Offsite other landfills m64 BOE:	Other
Total amount transferred offsite for disposal:	250
Total amount transferred offsite for recycling:	0
Total amount transferred offsite for energy recovery:	0
Total amount transferred offsite for treatment:	0
FRS ID - Transfer Location:	Not reported

Offsite RCRA id nr:	NA
Offsite transfer sequence number:	3
Offsite name:	K-PURE WATERWORKS
Offsite street address:	8910 ROCHESTER AVE
Offsite City,State,Zip:	RANCHO CUCAMONGA, CA 91730
Offsite county:	SAN BERNARDINO
Offsite province:	Not reported
Offsite country id:	Not reported
Offsite control:	NO
Unit of measure:	Pounds
Total amount transferred offsite for disposal:	0
Offsite other reuse or recovery m26 BOE:	Other
Total amount transferred offsite for recycling:	0
Total amount transferred offsite for energy recovery:	0
Total amount transferred offsite for treatment:	0
FRS ID - Transfer Location:	Not reported

Offsite RCRA id nr:	CAD982444481
Offsite transfer sequence number:	4
Offsite name:	FILTER RECYCLING SERVICES
Offsite street address:	180 W MONTE AVE
Offsite City,State,Zip:	BLOOMINGTON, CA 92316
Offsite county:	SAN BERNARDINO
Offsite province:	Not reported
Offsite country id:	Not reported
Offsite control:	NO
Unit of measure:	Pounds
Offsite other landfills m64 BOE:	Other
Total amount transferred offsite for disposal:	0
Total amount transferred offsite for recycling:	0
Total amount transferred offsite for energy recovery:	0
Total amount transferred offsite for treatment:	0
FRS ID - Transfer Location:	Not reported

TRI ID:	92335VSTMT13425
Cas number:	N150
Chemical name:	DIOXIN AND DIOXIN-LIKE COMPOUNDS
Classification:	DIOXIN
Unit of measure:	Grams
Metal ind:	NO
Revision code 1:	Not reported
Revision code 2:	Not reported
Maximum amount on site:	12
Fugitive air emissions - total release pounds:	NA

VISTA METALS CORPORATION (Continued) **1000395229**

Fugitive air emissions - total release range code:	Not reported
Total fugitive air emissions:	0
Fugitive air emissions - basis of estimate:	Not reported
Stack air emissions - release pounds:	1.77643
Stack air emissions - release range code:	Not reported
Total stack air emissions:	1.77643
Stack air emissions - basis of estimate:	On-Site-Specific Emission Factors
Total air emissions:	1.77643
Discharges to stream a - stream name:	Not reported
Total discharges to stream a:	Not reported
Discharges to stream a - basis of estimate:	Not reported
Discharges to stream a - % from stormwater:	Not reported
Discharges to stream b - stream name:	Not reported
Total discharges to stream b:	Not reported
Discharges to stream b - basis of estimate:	Not reported
Discharges to stream b - % from stormwater:	Not reported
Discharges to stream c - stream name:	Not reported
Total discharges to stream c:	Not reported
Discharges to stream c - basis of estimate:	Not reported
Discharges to stream c - % from stormwater:	Not reported
Discharges to stream d - stream name:	Not reported
Total discharges to stream d:	Not reported
Discharges to stream d - basis of estimate:	Not reported
Discharges to stream d - % from stormwater:	Not reported
Discharges to stream e - stream name:	Not reported
Total discharges to stream e:	Not reported
Discharges to stream e - basis of estimate:	Not reported
Discharges to stream e - % from stormwater:	Not reported
Discharges to stream f - stream name:	Not reported
Total discharges to stream f:	Not reported
Discharges to stream f - basis of estimate:	Not reported
Discharges to stream f - % from stormwater:	Not reported
Discharges to stream g - stream name:	Not reported
Total discharges to stream g:	Not reported
Discharges to stream g - basis of estimate:	Not reported
Discharges to stream g - % from stormwater:	Not reported
Total number of receiving streams:	0
Total surface water discharge:	0
Total on-site underground inj - pounds:	0
On-site underground inj - basis of estimate:	Not reported
Total on-site ugrnd inj to cl i wells - pounds:	0
On-site underground inj to c1 i wells - basis of estimate:	Not reported
Total on-site ugrnd inj to cl ii-v wells - pounds:	0
On-site ungrnd inj to cl ii-v wells - basis of estimate:	Not reported
Total on-site underground injection:	0
Total on-site landfills:	0
On-site landfills - basis of estimate:	Not reported
Total on-site RCRA subtitle c landfills:	0
On-site RCRA subtitle c landfills - basis of estimate:	Not reported
Total other on-site landfills:	0
Other landfills - basis of estimate:	Not reported
Total on-site land treatment:	0
Land trtmt/appl farming - basis of estimate:	Not reported
Total surface impoundments:	0
Surface impoundment - basis of estimate:	Not reported
Total RCRA c surface impoundments:	0
RCRA c Surface impoundment - basis of estimate:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Total other surface impoundments:	0
Other surface impoundment - basis of estimate:	Not reported
Total other disposal:	0
Other disposal - basis of estimate:	Not reported
Total on-site land releases:	0
Total on-site releases:	1.77643
Off-site - POTW releases:	0
Off-site - storage only:	0
Off-site - solid/stab - metals:	0
Off-site - wastewater treatment release - metals:	0
Off-site - solid/stab - release - metals:	0
Off-site - wastewater treatment - metals:	0
Off-site - underground injection:	0
Off-site - underground injection - class 1 wells:	0
Off-site - underground injection - class ii-v wells:	0
Off-site - landfills/disposal surface impoundments:	0
Off-site - surface impoundment:	0
Off-site - RCRA subtitle c surface impoundments:	0
Off-site - other surface impoundments:	0
Off-site - other landfills:	0
Off-site - RCRA subtitle c landfills:	0
Off-site - disposal - land treatment:	0
Off-site - disposal - other land disposal:	0
Off-site - disposal - other off-site management:	0
Off-site - disposal - transfer to waste broker:	0
Off-site - disposal - unknown:	0
Total transferred off site for disposal:	0
Off-site - recycling - solvents/organics recovery:	0
Off-site - recycling -metals recovery:	0
Off-site - recycling - other reuse or recovery:	0
Off-site - recycling - acid regeneration:	0
Off-site - recycling - transfer to waste broker:	0
Total transferred off site for recycling:	0
Off-site - energy recovery:	0
Off-site - transfer to waste broker for energy recovery:	0
Total transferred off site for energy recovery:	0
Off-site - POTW treatment:	0
Off-site - solid/stab treatment - non metals:	0
Off-site -incineration/thermal treatment:	0
Off-site - incineration/insignificant heat value:	0
Off-site - wastewater treatment - non-metals:	0
Off-site - other waste treatment:	0
Off-site - transfer to waste broker - waste treatment:	0
Total transferred off site for treatment:	0
Off-site - transfer to waste broker:	0
Total transferred off site for further waste management:	0
Total POTW transfer:	0
Energy recovery on site current year:	0
Recycled on site current year:	0
Treated on site current year:	0
Total on-site waste management:	0
On-site energy recovery method 1:	Not Applicable
On-site energy recovery method 2:	Not reported
On-site energy recovery method 3:	Not Applicable
On-site energy recovery method 4:	Not reported
On-site recycling processes method 1:	Not Applicable
On-site recycling processes method 2:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

On-site recycling processes method 3:	Not reported
On-site recycling processes method 4:	Not reported
On-site recycling processes method 5:	Not reported
On-site recycling processes method 6:	Not reported
On-site recycling processes method 7:	Not reported
FRS Facility ID:	110000479312
Elemental Metal Included:	NO
Waste Rock Pile managed Indicator:	0
Waste Rock Quantity:	Not reported
Off Site - POTW Releases 81C:	0
Off Site - POTW Releases 81D:	0

Chemical Activities and Uses:

Cas number:	N150
Document control number:	1318216843641
Chemical name:	DIOXIN AND DIOXIN-LIKE COMPOUNDS
Classification:	DIOXIN
Unit of measure:	Grams
Produce the chemical:	Yes
Import the chemical:	No
On-site use of the chemical:	No
Sale or distribution of the chemical:	No
As a byproduct:	Yes
As a manufactured impurity:	No
Used as a reactant:	No
P101 feedstocks:	No
P102 raw materials:	No
P103 intermediates:	No
P104 initiators:	No
P199 other:	No
Added as a formulation component:	No
P201 additives:	No
P202 dyes:	No
P203 reaction diluents:	No
P204 initiators:	No
P205 solvents:	No
P206 inhibitors:	No
P207 emulsifiers:	No
P208 surfactants:	No
P209 lubricants:	No
P210 flame retardants:	No
P211 rheological modifiers:	No
P299 other:	No
Used as an article component:	No
Repackaging:	No
As a process impurity:	No
Processed / recycling:	No
Used as a chemical processing aid:	No
Z101 process solvents:	No
Z102 catalysts:	No
Z103 inhibitors:	No
Z104 initiators:	No
Z105 reaction terminators:	No
Z106 solution buffers:	No
Z199 other:	No
Used as a manufacturing aid:	No
Z201 process lubricants:	No
Z202 metalworking fluids:	No

VISTA METALS CORPORATION (Continued) **1000395229**

Z203 coolants:	No
Z204 refrigerants:	No
Z205 hydraulic fluids:	No
Z299 other:	No
Ancillary or other use:	No
Z301 cleaner:	No
Z302 degreaser:	No
Z303 lubricant:	No
Z304 fuel:	No
Z305 flame retardant:	No
Z306 waste treatment:	No
Z307 water treatment:	No
Z308 construction materials:	No
Z399 other:	No

Submitted Facility Name:	VISTA METALS CORP.
Submitted Street:	13425 WHITTRAM AVE
Submitted City:	FONTANA
Submitted County:	SAN BERNARDINO
Submitted State:	CA
Submitted Zip Code:	92335
Submitted BIA Code:	Not reported
Submitted Tribe Name:	Not reported
Submitted Parent Company Name:	Not reported
Submitted Parent Company DB Number:	Not reported
Submitted Standardized Parent Company Name:	NA
Submitted Primary NAICS Code:	331314
Submitted Industry Code:	331
Submitted Industry Name:	Primary Metals
Industry Code:	331
Industry Name:	Primary Metals
Last year the facility reported:	2018
First year the facility reported:	1987
Number of forms submitted:	7
Total number of forms submitted:	185

Detailed Source Reduction Activities and Methods:

Cas number:	N150
Document control number:	1318216843641
Chemical name:	DIOXIN AND DIOXIN-LIKE COMPOUNDS
Classification:	DIOXIN
Unit of measure:	Grams
On-site limited releases - prior year:	0
On-site limited releases - current year:	0
On-site limited releases - following year:	0
On-site limited releases - 2nd-following year:	0
Other on-site releases - prior year:	1.38115
Other on-site releases - current year:	1.77643
Other on-site releases - following year:	1.77643
Other on-site releases - 2nd-following year:	1.77643
Off-site limited releases - prior year:	0
Off-site limited releases - current year:	0
Off-site limited releases - following year:	0
Off-site limited releases - 2nd-following year:	0
Other off-site releases - previous year:	0
Other off-site releases - current year:	0
Other off-site releases - following year:	0

VISTA METALS CORPORATION (Continued) **1000395229**

Other off-site releases - 2nd-following year:	0
Energy recovery on site prior year:	0
Energy recovery on site current year:	0
Energy recovery on site following year:	0
Energy recovery on site 2nd-following year:	0
Energy recovery off site prior year:	0
Energy recovery off site current year:	0
Energy recovery off site following year:	0
Energy recovery off site 2nd-following year:	0
Quantity recycled on site prior year:	0
Quantity recycled on site current year:	0
Quantity recycled on site following year:	0
Quantity recycled on site 2nd-following year:	0
Quantity recycled off site prior year:	0
Quantity recycled off site current year:	0
Quantity recycled off site following year:	0
Quantity recycled off site 2nd-following year:	0
Quantity treated on site prior year:	0
Quantity treated on site current year:	0
Quantity treated on site following year:	0
Quantity treated on site 2nd-following year:	0
Quantity treated off site prior year:	0
Quantity treated off site current year:	0
Quantity treated off site following year:	0
Quantity treated off site 2nd-following year:	0
Catastrophic releases or other one-time events:	Not reported
Prod ratio/activity index:	1.09
Prod ratio or activity:	PRODUCTION
1st SR reduction activity:	NA-Na
1st SR activity ID meth code and desc 1:	Not reported
1st SR activity ID meth code and desc 2:	Not reported
1st SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 1st source REDN act code and desc:	Not reported
2nd SR activity code and desc:	Not reported
2nd SR activity ID meth code and desc 1:	Not reported
2nd SR activity ID meth code and desc 2:	Not reported
2nd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 2nd source REDN act code and desc:	Not reported
3rd SR activity code and desc:	Not reported
3rd SR activity ID meth code and desc 1:	Not reported
3rd SR activity ID meth code and desc 2:	Not reported
3rd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 3rd source REDN act code and desc:	Not reported
4th SR activity code and desc:	Not reported
4th SR activity ID meth code and desc 1:	Not reported
4th SR activity ID meth code and desc 2:	Not reported
4th SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 4th source REDN act code and desc:	Not reported

Detailed On-site Waste Treatment Methods and Efficiency:

Cas number:	N150
Document control number:	1318216843641
Chemical name:	DIOXIN AND DIOXIN-LIKE COMPOUNDS
Classification:	DIOXIN
Unit of measure:	Grams
Stream 1 - waste stream code:	NA
Stream 1 - trtmt method - sequence 1:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Stream 1 - trtmt method - sequence 2:	Not reported
Stream 1 - trtmt method - sequence 3:	Not reported
Stream 1 - trtmt method - sequence 4:	Not reported
Stream 1 - trtmt method - sequence 5:	Not reported
Stream 1 - trtmt method - sequence 6:	Not reported
Stream 1 - trtmt method - sequence 7:	Not reported
Stream 1 - trtmt method - sequence 8:	Not reported
Stream 1 - based on operating data:	Not reported
Stream 2 - waste stream code:	Not reported
Stream 2 - trtmt method - sequence 1:	Not reported
Stream 2 - trtmt method - sequence 2:	Not reported
Stream 2 - trtmt method - sequence 3:	Not reported
Stream 2 - trtmt method - sequence 4:	Not reported
Stream 2 - trtmt method - sequence 5:	Not reported
Stream 2 - trtmt method - sequence 6:	Not reported
Stream 2 - trtmt method - sequence 7:	Not reported
Stream 2 - trtmt method - sequence 8:	Not reported
Stream 2 - based on operating data:	Not reported
Stream 3 - waste stream code:	Not reported
Stream 3 - trtmt method - sequence 1:	Not reported
Stream 3 - trtmt method - sequence 2:	Not reported
Stream 3 - trtmt method - sequence 3:	Not reported
Stream 3 - trtmt method - sequence 4:	Not reported
Stream 3 - trtmt method - sequence 5:	Not reported
Stream 3 - trtmt method - sequence 6:	Not reported
Stream 3 - trtmt method - sequence 7:	Not reported
Stream 3 - trtmt method - sequence 8:	Not reported
Stream 3 - based on operating data:	Not reported
Stream 4 - waste stream code:	Not reported
Stream 4 - trtmt method - sequence 1:	Not reported
Stream 4 - trtmt method - sequence 2:	Not reported
Stream 4 - trtmt method - sequence 3:	Not reported
Stream 4 - trtmt method - sequence 4:	Not reported
Stream 4 - trtmt method - sequence 5:	Not reported
Stream 4 - trtmt method - sequence 6:	Not reported
Stream 4 - trtmt method - sequence 7:	Not reported
Stream 4 - trtmt method - sequence 8:	Not reported
Stream 4 - based on operating data:	Not reported
Stream 5 - waste stream code:	Not reported
Stream 5 - trtmt method - sequence 1:	Not reported
Stream 5 - trtmt method - sequence 2:	Not reported
Stream 5 - trtmt method - sequence 3:	Not reported
Stream 5 - trtmt method - sequence 4:	Not reported
Stream 5 - trtmt method - sequence 5:	Not reported
Stream 5 - trtmt method - sequence 6:	Not reported
Stream 5 - trtmt method - sequence 7:	Not reported
Stream 5 - trtmt method - sequence 8:	Not reported
Stream 5 - based on operating data:	Not reported

TRI ID:		92335VSTMT13425
Cas number:		007439921
Chemical name:	LEAD	
Classification:		PBT
Unit of measure:		Pounds
Metal ind:		YES
Revision code 1:		Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Revision code 2:	Not reported
Maximum amount on site:	02
Fugitive air emissions - total release pounds:	.2
Fugitive air emissions - total release range code:	Not reported
Total fugitive air emissions:	.2
Fugitive air emissions - basis of estimate:	Published Emission Factors
Stack air emissions - release pounds:	.9
Stack air emissions - release range code:	Not reported
Total stack air emissions:	.9
Stack air emissions - basis of estimate:	On-Site-Specific Emission Factors
Total air emissions:	1.1
Discharges to stream a - stream name:	EAST ETIWANDA CREEK
Total discharges to stream a:	.1
Discharges to stream a - basis of estimate:	Periodic/Random Monotoning Data
Discharges to stream a - % from stormwater:	100
Discharges to stream b - stream name:	Not reported
Total discharges to stream b:	Not reported
Discharges to stream b - basis of estimate:	Not reported
Discharges to stream b - % from stormwater:	Not reported
Discharges to stream c - stream name:	Not reported
Total discharges to stream c:	Not reported
Discharges to stream c - basis of estimate:	Not reported
Discharges to stream c - % from stormwater:	Not reported
Discharges to stream d - stream name:	Not reported
Total discharges to stream d:	Not reported
Discharges to stream d - basis of estimate:	Not reported
Discharges to stream d - % from stormwater:	Not reported
Discharges to stream e - stream name:	Not reported
Total discharges to stream e:	Not reported
Discharges to stream e - basis of estimate:	Not reported
Discharges to stream e - % from stormwater:	Not reported
Discharges to stream f - stream name:	Not reported
Total discharges to stream f:	Not reported
Discharges to stream f - basis of estimate:	Not reported
Discharges to stream f - % from stormwater:	Not reported
Discharges to stream g - stream name:	Not reported
Total discharges to stream g:	Not reported
Discharges to stream g - basis of estimate:	Not reported
Discharges to stream g - % from stormwater:	Not reported
Total number of receiving streams:	1
Total surface water discharge:	.1
Total on-site underground inj - pounds:	0
On-site underground inj - basis of estimate:	Not reported
Total on-site ugrnd inj to cl i wells - pounds:	0
On-site underground inj to c1 i wells - basis of estimate:	Not reported
Total on-site ugrnd inj to cl ii-v wells - pounds:	0
On-site ungrnd inj to cl ii-v wells - basis of estimate:	Not reported
Total on-site underground injection:	0
Total on-site landfills:	0
On-site landfills - basis of estimate:	Not reported
Total on-site RCRA subtitle c landfills:	0
On-site RCRA subtitle c landfills - basis of estimate:	Not reported
Total other on-site landfills:	0
Other landfills - basis of estimate:	Not reported
Total on-site land treatment:	0
Land trtmt/appl farming - basis of estimate:	Not reported
Total surface impoundments:	0

VISTA METALS CORPORATION (Continued) **1000395229**

Surface impoundment - basis of estimate:	Not reported
Total RCRA c surface impoundments:	0
RCRA c Surface impoundment - basis of estimate:	Not reported
Total other surface impoundments:	0
Other surface impoundment - basis of estimate:	Not reported
Total other disposal:	.2
Other disposal - basis of estimate:	Other
Total on-site land releases:	.2
Total on-site releases:	1.4
Off-site - POTW releases:	0
Off-site - storage only:	0
Off-site - solid/stab - metals:	0
Off-site - wastewater treatment release - metals:	0
Off-site - solid/stab - release - metals:	0
Off-site - wastewater treatment - metals:	0
Off-site - underground injection:	0
Off-site - underground injection - class 1 wells:	0
Off-site - underground injection - class ii-v wells:	0
Off-site - landfills/disposal surface impoundments:	0
Off-site - surface impoundment:	0
Off-site - RCRA subtitle c surface impoundments:	0
Off-site - other surface impoundments:	0
Off-site - other landfills:	31.2
Off-site - RCRA subtitle c landfills:	0
Off-site - disposal - land treatment:	0
Off-site - disposal - other land disposal:	0
Off-site - disposal - other off-site management:	0
Off-site - disposal - transfer to waste broker:	0
Off-site - disposal - unknown:	0
Total transferred off site for disposal:	31.2
Off-site - recycling - solvents/organics recovery:	0
Off-site - recycling -metals recovery:	91.6
Off-site - recycling - other reuse or recovery:	0
Off-site - recycling - acid regeneration:	0
Off-site - recycling - transfer to waste broker:	0
Total transferred off site for recycling:	91.6
Off-site - energy recovery:	0
Off-site - transfer to waste broker for energy recovery:	0
Total transferred off site for energy recovery:	0
Off-site - POTW treatment:	0
Off-site - solid/stab treatment - non metals:	0
Off-site -incineration/thermal treatment:	0
Off-site - incineration/insignificant heat value:	0
Off-site - wastewater treatment - non-metals:	0
Off-site - other waste treatment:	0
Off-site - transfer to waste broker - waste treatment:	0
Total transferred off site for treatment:	0
Off-site - transfer to waste broker:	0
Total transferred off site for further waste management:	122.8
Total POTW transfer:	0
Energy recovery on site current year:	0
Recycled on site current year:	0
Treated on site current year:	0
Total on-site waste management:	0
On-site energy recovery method 1:	Not Applicable
On-site energy recovery method 2:	Not reported
On-site energy recovery method 3:	Not Applicable

VISTA METALS CORPORATION (Continued) **1000395229**

On-site energy recovery method 4:	Not reported
On-site recycling processes method 1:	Not Applicable
On-site recycling processes method 2:	Not reported
On-site recycling processes method 3:	Not reported
On-site recycling processes method 4:	Not reported
On-site recycling processes method 5:	Not reported
On-site recycling processes method 6:	Not reported
On-site recycling processes method 7:	Not reported
FRS Facility ID:	110000479312
Elemental Metal Included:	NO
Waste Rock Pile managed Indicator:	0
Waste Rock Quantity:	Not reported
Off Site - POTW Releases 81C:	0
Off Site - POTW Releases 81D:	0

Chemical Activities and Uses:

Cas number:	007439921
Document control number:	1318216843654
Chemical name: LEAD	
Classification:	PBT
Unit of measure:	Pounds
Produce the chemical:	Yes
Import the chemical:	No
On-site use of the chemical:	No
Sale or distribution of the chemical:	No
As a byproduct:	Yes
As a manufactured impurity:	No
Used as a reactant:	No
P101 feedstocks:	No
P102 raw materials:	No
P103 intermediates:	No
P104 initiators:	No
P199 other:	No
Added as a formulation component:	No
P201 additives:	No
P202 dyes:	No
P203 reaction diluents:	No
P204 initiators:	No
P205 solvents:	No
P206 inhibitors:	No
P207 emulsifiers:	No
P208 surfactants:	No
P209 lubricants:	No
P210 flame retardants:	No
P211 rheological modifiers:	No
P299 other:	No
Used as an article component:	Yes
Repackaging:	No
As a process impurity:	No
Processed / recycling:	No
Used as a chemical processing aid:	No
Z101 process solvents:	No
Z102 catalysts:	No
Z103 inhibitors:	No
Z104 initiators:	No
Z105 reaction terminators:	No
Z106 solution buffers:	No
Z199 other:	No

VISTA METALS CORPORATION (Continued) **1000395229**

Used as a manufacturing aid:	No
Z201 process lubricants:	No
Z202 metalworking fluids:	No
Z203 coolants:	No
Z204 refrigerants:	No
Z205 hydraulic fluids:	No
Z299 other:	No
Ancillary or other use:	Yes
Z301 cleaner:	No
Z302 degreaser:	No
Z303 lubricant:	No
Z304 fuel:	No
Z305 flame retardant:	No
Z306 waste treatment:	No
Z307 water treatment:	No
Z308 construction materials:	No
Z399 other:	No

Submitted Facility Name:	VISTA METALS CORP.
Submitted Street:	13425 WHITTRAM AVE
Submitted City:	FONTANA
Submitted County:	SAN BERNARDINO
Submitted State:	CA
Submitted Zip Code:	92335
Submitted BIA Code:	Not reported
Submitted Tribe Name:	Not reported
Submitted Parent Company Name:	Not reported
Submitted Parent Company DB Number:	Not reported
Submitted Standardized Parent Company Name:	NA
Submitted Primary NAICS Code:	331314
Submitted Industry Code:	331
Submitted Industry Name:	Primary Metals
Industry Code:	331
Industry Name:	Primary Metals
Last year the facility reported:	2018
First year the facility reported:	1987
Number of forms submitted:	7
Total number of forms submitted:	185

Detailed Source Reduction Activities and Methods:

Cas number:	007439921
Document control number:	1318216843654
Chemical name: LEAD	
Classification:	PBT
Unit of measure:	Pounds
On-site limited releases - prior year:	0
On-site limited releases - current year:	0
On-site limited releases - following year:	0
On-site limited releases - 2nd-following year:	0
Other on-site releases - prior year:	2.2
Other on-site releases - current year:	1.4
Other on-site releases - following year:	1.4
Other on-site releases - 2nd-following year:	1.4
Off-site limited releases - prior year:	19.4
Off-site limited releases - current year:	31.2
Off-site limited releases - following year:	31.2
Off-site limited releases - 2nd-following year:	31.2

VISTA METALS CORPORATION (Continued) **1000395229**

Other off-site releases - previous year:	0
Other off-site releases - current year:	0
Other off-site releases - following year:	0
Other off-site releases - 2nd-following year:	0
Energy recovery on site prior year:	0
Energy recovery on site current year:	0
Energy recovery on site following year:	0
Energy recovery on site 2nd-following year:	0
Energy recovery off site prior year:	0
Energy recovery off site current year:	0
Energy recovery off site following year:	0
Energy recovery off site 2nd-following year:	0
Quantity recycled on site prior year:	0
Quantity recycled on site current year:	0
Quantity recycled on site following year:	0
Quantity recycled on site 2nd-following year:	0
Quantity recycled off site prior year:	73.6
Quantity recycled off site current year:	91.6
Quantity recycled off site following year:	91.6
Quantity recycled off site 2nd-following year:	91.6
Quantity treated on site prior year:	0
Quantity treated on site current year:	0
Quantity treated on site following year:	0
Quantity treated on site 2nd-following year:	0
Quantity treated off site prior year:	0
Quantity treated off site current year:	0
Quantity treated off site following year:	0
Quantity treated off site 2nd-following year:	0
Catastrophic releases or other one-time events:	Not reported
Prod ratio/activity index:	1.09
Prod ratio or activity:	PRODUCTION
1st SR reduction activity:	NA-Na
1st SR activity ID meth code and desc 1:	Not reported
1st SR activity ID meth code and desc 2:	Not reported
1st SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 1st source REDN act code and desc:	Not reported
2nd SR activity code and desc:	Not reported
2nd SR activity ID meth code and desc 1:	Not reported
2nd SR activity ID meth code and desc 2:	Not reported
2nd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 2nd source REDN act code and desc:	Not reported
3rd SR activity code and desc:	Not reported
3rd SR activity ID meth code and desc 1:	Not reported
3rd SR activity ID meth code and desc 2:	Not reported
3rd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 3rd source REDN act code and desc:	Not reported
4th SR activity code and desc:	Not reported
4th SR activity ID meth code and desc 1:	Not reported
4th SR activity ID meth code and desc 2:	Not reported
4th SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 4th source REDN act code and desc:	Not reported

Detailed On-site Waste Treatment Methods and Efficiency:

Cas number:		007439921
Document control number:		1318216843654
Chemical name:	LEAD	
Classification:		PBT

VISTA METALS CORPORATION (Continued) **1000395229**

Unit of measure:	Pounds
Stream 1 - waste stream code:	Gaseous (gases, vapors, airborne particulates)
Stream 1 - trtmt method - sequence 1:	Other Air Emission Treatment
Stream 1 - trtmt method - sequence 2:	Not reported
Stream 1 - trtmt method - sequence 3:	Not reported
Stream 1 - trtmt method - sequence 4:	Not reported
Stream 1 - trtmt method - sequence 5:	Not reported
Stream 1 - trtmt method - sequence 6:	Not reported
Stream 1 - trtmt method - sequence 7:	Not reported
Stream 1 - trtmt method - sequence 8:	Not reported
Stream 1 - based on operating data:	NO
Stream 2 - waste stream code:	Not reported
Stream 2 - trtmt method - sequence 1:	Not reported
Stream 2 - trtmt method - sequence 2:	Not reported
Stream 2 - trtmt method - sequence 3:	Not reported
Stream 2 - trtmt method - sequence 4:	Not reported
Stream 2 - trtmt method - sequence 5:	Not reported
Stream 2 - trtmt method - sequence 6:	Not reported
Stream 2 - trtmt method - sequence 7:	Not reported
Stream 2 - trtmt method - sequence 8:	Not reported
Stream 2 - based on operating data:	Not reported
Stream 3 - waste stream code:	Not reported
Stream 3 - trtmt method - sequence 1:	Not reported
Stream 3 - trtmt method - sequence 2:	Not reported
Stream 3 - trtmt method - sequence 3:	Not reported
Stream 3 - trtmt method - sequence 4:	Not reported
Stream 3 - trtmt method - sequence 5:	Not reported
Stream 3 - trtmt method - sequence 6:	Not reported
Stream 3 - trtmt method - sequence 7:	Not reported
Stream 3 - trtmt method - sequence 8:	Not reported
Stream 3 - based on operating data:	Not reported
Stream 4 - waste stream code:	Not reported
Stream 4 - trtmt method - sequence 1:	Not reported
Stream 4 - trtmt method - sequence 2:	Not reported
Stream 4 - trtmt method - sequence 3:	Not reported
Stream 4 - trtmt method - sequence 4:	Not reported
Stream 4 - trtmt method - sequence 5:	Not reported
Stream 4 - trtmt method - sequence 6:	Not reported
Stream 4 - trtmt method - sequence 7:	Not reported
Stream 4 - trtmt method - sequence 8:	Not reported
Stream 4 - based on operating data:	Not reported
Stream 5 - waste stream code:	Not reported
Stream 5 - trtmt method - sequence 1:	Not reported
Stream 5 - trtmt method - sequence 2:	Not reported
Stream 5 - trtmt method - sequence 3:	Not reported
Stream 5 - trtmt method - sequence 4:	Not reported
Stream 5 - trtmt method - sequence 5:	Not reported
Stream 5 - trtmt method - sequence 6:	Not reported
Stream 5 - trtmt method - sequence 7:	Not reported
Stream 5 - trtmt method - sequence 8:	Not reported
Stream 5 - based on operating data:	Not reported

Details of Off-site Transfers:

Cas number:		007439921
Document control number:		1318216843654
Chemical name:	LEAD	
Classification:		PBT

VISTA METALS CORPORATION (Continued) **1000395229**

Offsite RCRA id nr:	NA
Offsite transfer sequence number:	1
Offsite name:	K-PURE WATERWORKS
Offsite street address:	8910 ROCHESTER AVE
Offsite City,State,Zip:	RANCHO CUCAMONGA, CA 91730
Offsite county:	SAN BERNARDINO
Offsite province:	Not reported
Offsite country id:	Not reported
Offsite control:	NO
Unit of measure:	Pounds
Total amount transferred offsite for disposal:	0
Offsite other reuse or recovery m26 BOE:	Other
Total amount transferred offsite for recycling:	0
Total amount transferred offsite for energy recovery:	0
Total amount transferred offsite for treatment:	0
FRS ID - Transfer Location:	Not reported

Offsite RCRA id nr:	NA
Offsite transfer sequence number:	2
Offsite name:	IMSAMET OF ARIZONA
Offsite street address:	3839 S. ESTRELLA PARKWAY
Offsite City,State,Zip:	GOODYEAR, AZ 85338
Offsite county:	MARICOPA
Offsite province:	Not reported
Offsite country id:	Not reported
Offsite control:	NO
Unit of measure:	Pounds
Total amount transferred offsite for disposal:	0
Offsite metals recovery m24 LBS:	91.6
Offsite metals recovery m24 BOE:	Other
Total amount transferred offsite for recycling:	91.6
Total amount transferred offsite for energy recovery:	0
Total amount transferred offsite for treatment:	0
FRS ID - Transfer Location:	Not reported

Offsite RCRA id nr:	AZC950823111
Offsite transfer sequence number:	3
Offsite name:	LA PAZ COUNTY LANDFILL
Offsite street address:	26999 HIGHWAY 95 MILEPOST 128
Offsite City,State,Zip:	PARKER, AZ 85344
Offsite county:	LA PAZ
Offsite province:	Not reported
Offsite country id:	Not reported
Offsite control:	NO
Unit of measure:	Pounds
Offsite other landfills m64 LBS:	31.2
Offsite other landfills m64 BOE:	Other
Total amount transferred offsite for disposal:	31.2
Total amount transferred offsite for recycling:	0
Total amount transferred offsite for energy recovery:	0
Total amount transferred offsite for treatment:	0
FRS ID - Transfer Location:	Not reported

ICIS:

Enforcement Action ID:	09-2008-3005
FRS ID:	110000479312

VISTA METALS CORPORATION (Continued) **1000395229**

Action Name:	Vista Metals, Corp.
Facility Name:	VISTA METALS CORP.
Facility Address:	13425 WHITTRAM AVENUE FONTANA, CA 92335
Enforcement Action Type:	EPCRA 325 Action For Penalty
Facility County:	SAN BERNARDINO
Program System Acronym:	ICIS
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	325
Facility SIC Code:	Not reported
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.094639
Longitude in Decimal Degrees:	-117.512111
Permit Type Desc:	Not reported
Program System Acronym:	600009713
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

Facility Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE.
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported

Facility Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE.
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported

Facility Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE.
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported

Facility Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE.
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported

Facility Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE.
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported

Facility Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE.
Tribal Indicator:	N

VISTA METALS CORPORATION (Continued) **1000395229**

Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: VISTA METALS CORPORATION
Address: 13425 WHITTRAM AVE.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: VISTA METALS CORPORATION
Address: 13425 WHITTRAM AVE.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: VISTA METALS CORPORATION
Address: 13425 WHITTRAM AVE.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: VISTA METALS CORPORATION
Address: 13425 WHITTRAM AVE.
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

FINDS:
Registry ID: 110000479312

Click Here:

Environmental Interest/Information System:
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

VISTA METALS CORPORATION (Continued) **1000395229**

OSHA ESTABLISHMENT
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
RISK AND TECHNOLOGY REVIEW
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
HAZARDOUS AIR POLLUTANT MAJOR
AIR MAJOR
STATE MASTER
HAZARDOUS WASTE BIENNIAL REPORTER
AIR MINOR
US EPA Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store certain flammable or toxic substances, as required under section 112(r) of the Clean Air Act (CAA).
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.
GREENHOUSE GAS REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

EMI:

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVENUE
City,State,Zip:	FONTANA, CA 92335
Year:	1987
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3365
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5

VISTA METALS CORPORATION (Continued) **1000395229**

Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	109
NOX - Oxides of Nitrogen Tons/Yr:	11
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	9
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVENUE
City,State,Zip:	FONTANA, CA 92335
Year:	1990
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3365
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	95
NOX - Oxides of Nitrogen Tons/Yr:	9
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	11
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVENUE
City,State,Zip:	FONTANA, CA 92335
Year:	1995
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3365
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	62
NOX - Oxides of Nitrogen Tons/Yr:	16
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	6
Part. Matter 10 Micrometers and Smllr Tons/Yr:	6

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Year:	1996
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3365
Air District Name:	SOUTH COAST AQMD

VISTA METALS CORPORATION (Continued) **1000395229**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	43
NOX - Oxides of Nitrogen Tons/Yr:	14
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	15
Part. Matter 10 Micrometers and Smllr Tons/Yr:	14

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVENUE
City,State,Zip:	FONTANA, CA 92335
Year:	1997
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3365
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10
Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	52
NOX - Oxides of Nitrogen Tons/Yr:	32
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	17
Part. Matter 10 Micrometers and Smllr Tons/Yr:	16

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVENUE
City,State,Zip:	FONTANA, CA 92335
Year:	1998
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3365
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	52
NOX - Oxides of Nitrogen Tons/Yr:	32
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	17
Part. Matter 10 Micrometers and Smllr Tons/Yr:	16

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVENUE
City,State,Zip:	FONTANA, CA 92335
Year:	1999
County Code:	36
Air Basin:	SC
Facility ID:	14495

VISTA METALS CORPORATION (Continued) **1000395229**

Air District Name:	SC
SIC Code:	3365
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10
Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	52
NOX - Oxides of Nitrogen Tons/Yr:	32
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	17
Part. Matter 10 Micrometers and Smllr Tons/Yr:	16

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVENUE
City,State,Zip:	FONTANA, CA 92335
Year:	2000
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3365
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10
Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	52
NOX - Oxides of Nitrogen Tons/Yr:	32
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	17
Part. Matter 10 Micrometers and Smllr Tons/Yr:	16

Name:	VISTA METALS CORP
Address:	13425 WHITTRAM AVENUE
City,State,Zip:	FONTANA, CA 92335
Year:	2001
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3365
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	15
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	9
NOX - Oxides of Nitrogen Tons/Yr:	30
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers and Smllr Tons/Yr:	2

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Year:	2002

VISTA METALS CORPORATION (Continued) **1000395229**

County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3341
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	15
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	11
NOX - Oxides of Nitrogen Tons/Yr:	15
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	4
Part. Matter 10 Micrometers and Smllr Tons/Yr:	3

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Year:	2003
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3341
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	15
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	11
NOX - Oxides of Nitrogen Tons/Yr:	15
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	4
Part. Matter 10 Micrometers and Smllr Tons/Yr:	3

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Year:	2004
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3341
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	14.704325
Reactive Organic Gases Tons/Yr:	9.7
Carbon Monoxide Emissions Tons/Yr:	10.997675
NOX - Oxides of Nitrogen Tons/Yr:	15.3995
SOX - Oxides of Sulphur Tons/Yr:	0.2086207
Particulate Matter Tons/Yr:	3.718614
Part. Matter 10 Micrometers and Smllr Tons/Yr:	3.36

Name:	VISTA METALS CORPORATION

VISTA METALS CORPORATION (Continued) **1000395229**

Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Year:	2005
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3341
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.552365
Reactive Organic Gases Tons/Yr:	6.328237506
Carbon Monoxide Emissions Tons/Yr:	9.703
NOX - Oxides of Nitrogen Tons/Yr:	15.78104
SOX - Oxides of Sulphur Tons/Yr:	.16968
Particulate Matter Tons/Yr:	3.700280746
Part. Matter 10 Micrometers and Smllr Tons/Yr:	3.41124311918

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Year:	2006
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3341
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.862463341077735883
Reactive Organic Gases Tons/Yr:	2.632
Carbon Monoxide Emissions Tons/Yr:	9.563
NOX - Oxides of Nitrogen Tons/Yr:	14.37
SOX - Oxides of Sulphur Tons/Yr:	.169
Particulate Matter Tons/Yr:	5.633
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5.02406

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 95131
Year:	2007
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3341
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.862463341077735883
Reactive Organic Gases Tons/Yr:	2.632
Carbon Monoxide Emissions Tons/Yr:	9.563
NOX - Oxides of Nitrogen Tons/Yr:	14.37
SOX - Oxides of Sulphur Tons/Yr:	.169
Particulate Matter Tons/Yr:	5.633

VISTA METALS CORPORATION (Continued) **1000395229**

Part. Matter 10 Micrometers and Smllr Tons/Yr:5.02406

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Year:	2008
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3354
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.220677183841819116
Reactive Organic Gases Tons/Yr:	1.730610063208
Carbon Monoxide Emissions Tons/Yr:	7.904025
NOX - Oxides of Nitrogen Tons/Yr:	11.83601864369107900
SOX - Oxides of Sulphur Tons/Yr:	.1122055
Particulate Matter Tons/Yr:	4.6979125
Part. Matter 10 Micrometers and Smllr Tons/Yr:	4.176669375

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVENUE
City,State,Zip:	FONTANA, CA 92335
Year:	2009
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3354
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.01648846091806
Reactive Organic Gases Tons/Yr:	1.2900805008
Carbon Monoxide Emissions Tons/Yr:	5.6897450000000003
NOX - Oxides of Nitrogen Tons/Yr:	8.8281469999999995
SOX - Oxides of Sulphur Tons/Yr:	8.9684929999999996E-2
Particulate Matter Tons/Yr:	3.5315810000000001
Part. Matter 10 Micrometers and Smllr Tons/Yr:	3.1365925720000001

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVENUE
City,State,Zip:	FONTANA, CA 92335
Year:	2010
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3354
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.2743105676060198
Reactive Organic Gases Tons/Yr:	2.3766500000000002
Carbon Monoxide Emissions Tons/Yr:	12.852359999999999

VISTA METALS CORPORATION (Continued) **1000395229**

NOX - Oxides of Nitrogen Tons/Yr: 13.69534
SOX - Oxides of Sulphur Tons/Yr: 0.16192054715000001
Particulate Matter Tons/Yr: 5.6153401289999998
Part. Matter 10 Micrometers and Smllr Tons/Yr: 5.0049789670699996

Name: VISTA METALS CORPORATION
Address: 13425 WHITTRAM AVENUE
City,State,Zip: FONTANA, CA 92335
Year: 2011
County Code: 36
Air Basin: SC
Facility ID: 14495
Air District Name: SC
SIC Code: 3354
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 6.9218009106
Reactive Organic Gases Tons/Yr: 3.2500516667
Carbon Monoxide Emissions Tons/Yr: 12.97162
NOX - Oxides of Nitrogen Tons/Yr: 19.98591
SOX - Oxides of Sulphur Tons/Yr: 0.17592
Particulate Matter Tons/Yr: 5.9537501334
Part. Matter 10 Micrometers and Smllr Tons/Yr: 5.3227239708

Name: VISTA METALS CORPORATION
Address: 13425 WHITTRAM AVE
City,State,Zip: FONTANA, CA 92335
Year: 2012
County Code: 36
Air Basin: SC
Facility ID: 14495
Air District Name: SC
SIC Code: 3354
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 6.2667798064
Reactive Organic Gases Tons/Yr: 2.96279
Carbon Monoxide Emissions Tons/Yr: 12.1265
NOX - Oxides of Nitrogen Tons/Yr: 16.29041
SOX - Oxides of Sulphur Tons/Yr: 0.17045
Particulate Matter Tons/Yr: 6.3693
Part. Matter 10 Micrometers and Smllr Tons/Yr: 5.6562417

Name: VISTA METALS CORPORATION
Address: 13425 WHITTRAM AVE
City,State,Zip: FONTANA, CA 92335
Year: 2013
County Code: 36
Air Basin: SC
Facility ID: 14495
Air District Name: SC
SIC Code: 3341
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Total Organic Hydrocarbon Gases Tons/Yr:	6.4748873626
Reactive Organic Gases Tons/Yr:	3.10462415
Carbon Monoxide Emissions Tons/Yr:	12.60458
NOX - Oxides of Nitrogen Tons/Yr:	17.32429
SOX - Oxides of Sulphur Tons/Yr:	0.174899
Particulate Matter Tons/Yr:	6.668200124
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5.9089441629

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Year:	2014
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3341
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.5532190958
Reactive Organic Gases Tons/Yr:	4.57057
Carbon Monoxide Emissions Tons/Yr:	14.37436
NOX - Oxides of Nitrogen Tons/Yr:	17.52006
SOX - Oxides of Sulphur Tons/Yr:	0.186965
Particulate Matter Tons/Yr:	7.24048
Part. Matter 10 Micrometers and Smllr Tons/Yr:	6.8834072

Name:	VISTA METALS CORP
Address:	13425 WHITTRAM AVENUE
City,State,Zip:	FONTANA, CA 92335
Year:	2015
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3365
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9.0454282887
Reactive Organic Gases Tons/Yr:	5.9854719047
Carbon Monoxide Emissions Tons/Yr:	17.0945165
NOX - Oxides of Nitrogen Tons/Yr:	17.78252022
SOX - Oxides of Sulphur Tons/Yr:	0.1969325
Particulate Matter Tons/Yr:	9.69411245
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9.336496277

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Year:	2016
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3341

VISTA METALS CORPORATION (Continued) **1000395229**

Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.7040049087
Reactive Organic Gases Tons/Yr:	2.943491351
Carbon Monoxide Emissions Tons/Yr:	15.284618
NOX - Oxides of Nitrogen Tons/Yr:	17.40673
SOX - Oxides of Sulphur Tons/Yr:	0.1404621
Particulate Matter Tons/Yr:	6.498189
Part. Matter 10 Micrometers and Smllr Tons/Yr:	6.17401505

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Year:	2017
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3341
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.8727352045
Reactive Organic Gases Tons/Yr:	2.9910462732
Carbon Monoxide Emissions Tons/Yr:	14.81053775
NOX - Oxides of Nitrogen Tons/Yr:	18.401995
SOX - Oxides of Sulphur Tons/Yr:	0.13960721
Particulate Matter Tons/Yr:	6.95046488
Part. Matter 10 Micrometers and Smllr Tons/Yr:	6.60346843

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Year:	2018
County Code:	36
Air Basin:	SC
Facility ID:	14495
Air District Name:	SC
SIC Code:	3341
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.2565104802
Reactive Organic Gases Tons/Yr:	3.1005244691
Carbon Monoxide Emissions Tons/Yr:	16.602425
NOX - Oxides of Nitrogen Tons/Yr:	19.5844535
SOX - Oxides of Sulphur Tons/Yr:	0.210544
Particulate Matter Tons/Yr:	7.48049435
Part. Matter 10 Micrometers and Smllr Tons/Yr:	7.234904926

NPDES:

Name:	VISTA METALS CORP.
Address:	13425 WHITTRAM AVENUE
City,State,Zip:	FONTANA, CA 92335
Facility Status:	Active
NPDES Number:	CAS000001

VISTA METALS CORPORATION (Continued) **1000395229**

Region:	8
Agency Number:	0
Regulatory Measure ID:	213103
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 36I001033
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/25/1992
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	13425 Whittram Avenue
Discharge Name:	Vista Metals Corp
Discharge City:	Fontana
Discharge State:	California
Discharge Zip:	92335
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213103
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I001033
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/25/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Vista Metals Corp
Discharge Address:	13425 Whittram Avenue
Discharge City:	Fontana
Discharge State:	California
Discharge Zip:	92335
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213103
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I001033
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	03/25/1992
Status:	Active
Status Date:	03/25/1992
Place Size:	22
Place Size Unit:	Acres
Contact:	Cesar Castaneda
Contact Title:	EHS Manager
Contact Phone:	909-829-6175
Contact Phone Ext:	Not reported
Contact Email:	cesar@vistametals.com
Operator Name:	Vista Metals Corp
Operator Address:	13425 Whittram Avenue
Operator City:	Fontana
Operator State:	California
Operator Zip:	92335
Operator Contact:	Cesar Castaneda
Operator Contact Title:	EHS Manager
Operator Contact Phone:	909-829-6175
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	cesar@vistametals.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-829-6175
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Etiwanda Creek
Certifier:	Andrew Primack

VISTA METALS CORPORATION (Continued) **1000395229**

Certifier Title:	President
Certification Date:	10-JUN-15
Primary Sic:	3341-Secondary Smelting and Refining of Nonferrous Metals
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	VISTA METALS CORP.
Address:	13425 WHITTRAM AVENUE
City,State,Zip:	FONTANA, CA 92335
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36I001033
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	03/25/1992
Operator Name:	Vista Metals Corp
Operator Address:	13425 Whittram Avenue
Operator City:	Fontana
Operator State:	California
Operator Zip:	92335

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213103
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I001033
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/25/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Vista Metals Corp
Discharge Address:	13425 Whittram Avenue
Discharge City:	Fontana
Discharge State:	California
Discharge Zip:	92335
Received Date:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213103
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I001033
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	03/25/1992
Status:	Active
Status Date:	03/25/1992
Place Size:	22
Place Size Unit:	Acres
Contact:	Cesar Castaneda
Contact Title:	EHS Manager
Contact Phone:	909-829-6175
Contact Phone Ext:	Not reported
Contact Email:	cesar@vistametals.com
Operator Name:	Vista Metals Corp
Operator Address:	13425 Whittram Avenue
Operator City:	Fontana
Operator State:	California
Operator Zip:	92335
Operator Contact:	Cesar Castaneda
Operator Contact Title:	EHS Manager
Operator Contact Phone:	909-829-6175
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	cesar@vistametals.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-829-6175
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Etiwanda Creek
Certifier:	Andrew Primack
Certifier Title:	President
Certification Date:	10-JUN-15
Primary Sic:	3341-Secondary Smelting and Refining of Nonferrous Metals
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	VISTA METALS CORP.
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Region:	SAN BERNARDINO
Facility ID:	FA0007161
Owner:	Vista Metals Corp.
Permit Number:	PT0024510
Permit Category:	APSA 10,001-100,000 GAL FAC CAPACITY
Facility Status:	ACTIVE
Expiration Date:	10/31/2020

Name:	VISTA METALS CORP.
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Region:	SAN BERNARDINO
Facility ID:	FA0007161
Owner:	Vista Metals Corp.
Permit Number:	PT0002241
Permit Category:	HAZARDOUS MATERIALS 71+ CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	10/31/2020

Name:	VISTA METALS CORP.
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Region:	SAN BERNARDINO
Facility ID:	FA0007161
Owner:	Vista Metals Corp.
Permit Number:	PT0002224
Permit Category:	RMP INSPECTION - PROGRAM 2
Facility Status:	ACTIVE
Expiration Date:	10/31/2020

Name:	VISTA METALS CORP.
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Region:	SAN BERNARDINO

VISTA METALS CORPORATION (Continued) **1000395229**

Facility ID: FA0007161
Owner: Vista Metals Corp.
Permit Number: PT0002236
Permit Category: SUPER LARGE QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 10/31/2020

Name: VISTA METALS CORP.
Address: 13425 WHITTRAM AVE
City,State,Zip: FONTANA, CA 92335
Region: SAN BERNARDINO
Facility ID: FA0007161
Owner: Vista Metals Corp.
Permit Number: PT0019346
Permit Category: UW HANDLER WITH ANOTHER CUPA PERMIT
Facility Status: ACTIVE
Expiration Date: 10/31/2020

Name: VISTA METALS CORP.
Address: 13425 WHITTRAM AVE
City,State,Zip: FONTANA, CA 92335
Region: SAN BERNARDINO
Facility ID: FA0007161
Owner: Vista Metals Corp.
Permit Number: PT0002223
Permit Category: CALARP FACILITY PERMIT
Facility Status: INACTIVE
Expiration Date: 10/31/2013

Name: VISTA METALS CORP.
Address: 13425 WHITTRAM AVE
City,State,Zip: FONTANA, CA 92335
Region: SAN BERNARDINO
Facility ID: FA0007161
Owner: Vista Metals Corp.
Permit Number: PT0002230
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 10/31/2013

Name: VISTA METALS CORP.
Address: 13425 WHITTRAM AVE
City,State,Zip: FONTANA, CA 92335
Region: SAN BERNARDINO
Facility ID: FA0007161
Owner: Vista Metals Corp.
Permit Number: PT0012132
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 10/31/2012

Name: VISTA METALS CORP.
Address: 13425 WHITTRAM AVE
City,State,Zip: FONTANA, CA 92335
Region: SAN BERNARDINO
Facility ID: FA0007161
Owner: Vista Metals Corp.

VISTA METALS CORPORATION (Continued) **1000395229**

Permit Number: PT0012133
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 10/31/2012

WDS:

Name:	VISTA METALS CORP.
Address:	13425 WHITTRAM AVE
City:	FONTANA
Facility ID:	Santa Ana River 36I001033
Facility Type:	Not reported
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	Not reported
Facility Contact:	Not reported
Agency Name:	VISTA METALS CORP.
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Not reported
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Name:	VISTA METALS CORP.
Address:	13425 WHITTRAM AVENUE
City,State,Zip:	FONTANA, CA 92335
Agency:	Vista Metals Corp
Agency Address:	13425 Whittram Avenue, Fontana, CA 92335

VISTA METALS CORPORATION (Continued) **1000395229**

Place/Project Type:	Industrial - Secondary Smelting and Refining of Nonferrous Metals
SIC/NAICS:	3341
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I001033
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/25/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.09461
Longitude:	-117.51265

CERS:

Name:	VISTA METALS CORPORATION
Address:	13425 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Site ID:	169445
CERS ID:	110000479312
CERS Description:	US EPA Air Emission Inventory System (EIS)

Violations:

Site ID:	169445
Site Name:	VISTA METALS CORPORATION
Violation Date:	10-01-2012
Citation:	03001 - Search Title 8 regulations for 4999 D02 at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description:	Cal/OSHA Violation
Violation Notes:	Not reported
Violation Division:	Cal/OSHA
Violation Program:	OSHA
Violation Source:	CERS

Site ID:	169445
Site Name:	VISTA METALS CORPORATION
Violation Date:	09-01-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to test or inspect each aboveground container for integrity based on industry standards discussed in the SPCC Plan: 1. On a regular schedule. 2. After making material repairs. 3. Use non-destructive testing. 4. Inspect each containerG s supports, foundations, and outside for signs of deterioration, discharges, or accumulation of oil inside diked areas.
Violation Notes:	Returned to compliance on 11/07/2017. The integrity testing of tanks has not been conducted as outlined in the SPCC Plan. Compliance Requirement: Submit a stament indicating that tanks AST-1, AST-2 and AST-5 have been tested per API 653 industry standards for initial

VISTA METALS CORPORATION (Continued) **1000395229**

integrity as outlined in the SPCC plan.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS

Site ID: 169445
Site Name: VISTA METALS CORPORATION
Violation Date: 12-31-2018
Citation: 03001 - Search Title 8 regulations for 3270(C) at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description: Cal/OSHA Violation
Violation Notes: Not reported
Violation Division: Cal/OSHA
Violation Program: OSHA
Violation Source: CERS

Site ID: 169445
Site Name: VISTA METALS CORPORATION
Violation Date: 11-22-2013
Citation: 01001 - Search Title 8 regulations for 3650 T12 at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description: Cal/OSHA Violation
Violation Notes: Not reported
Violation Division: Cal/OSHA
Violation Program: OSHA
Violation Source: CERS

Site ID: 169445
Site Name: VISTA METALS CORPORATION
Violation Date: 09-26-2014
Citation: HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name.
Violation Notes: Returned to compliance on 12/02/2014.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 169445
Site Name: VISTA METALS CORPORATION
Violation Date: 05-04-2007
Citation: 04001 - Search Title 8 regulations for 4184 A at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description: Cal/OSHA Violation
Violation Notes: Not reported
Violation Division: Cal/OSHA
Violation Program: OSHA
Violation Source: CERS

Evaluation:
Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 04-27-2012

VISTA METALS CORPORATION (Continued) **1000395229**

Violations Found:	Yes
Eval Type:	Cal/OSHA Inspection
Eval Notes:	Not reported
Eval Division:	Cal/OSHA
Eval Program:	OSHA
Eval Source:	CERS
Eval General Type:	Occupational Safety and Health Administration Inspection
Eval Date:	08-27-2018
Violations Found:	Yes
Eval Type:	Cal/OSHA Inspection
Eval Notes:	Not reported
Eval Division:	Cal/OSHA
Eval Program:	OSHA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-01-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	CalARP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-26-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE HANDLER INSPECTION-VISTA METALS
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Occupational Safety and Health Administration Inspection
Eval Date:	08-22-2013
Violations Found:	Yes
Eval Type:	Cal/OSHA Inspection
Eval Notes:	Not reported
Eval Division:	Cal/OSHA
Eval Program:	OSHA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-01-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-01-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 01-10-2007
Violations Found: Yes
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE APSA INSPECTION-VISTA METALS
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE CALARP INSPECTION-VISTA METALS
Eval Division: San Bernardino County Fire Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-01-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION-VISTA METALS
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 169445
Site Name: VISTA METALS CORPORATION
Site Address: 13425 WHITTRAM AVE
Site City: FONTANA
Site Zip: 92335
Enf Action Date: 09-26-2014
Enf Action Type: Notice of Violation (Unified Program)

VISTA METALS CORPORATION (Continued) **1000395229**

Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 169445
Facility Name: VISTA METALS CORPORATION
Env Int Type Code: FRS-AIR
Program ID: 110000479312
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 34.094600
Longitude: -117.513260

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Cesar Castaneda
Entity Title: Not reported
Affiliation Address: 13425 Whittram Avenue
Affiliation City: Fontana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92335
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 13425 Whittram Avenue
Affiliation City: Fontana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92335
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Vista Metals Corp.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 823-4278

Affiliation Type Desc: Technical Contact
Entity Name: JE Compliance Services
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: 92335
Affiliation Phone: 9094833300

VISTA METALS CORPORATION (Continued) **1000395229**

Affiliation Type Desc:	Company Official
Entity Name:	Cesar Castaneda
Entity Title:	EHS Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	92335
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401

Affiliation Type Desc:	Environmental Contact
Entity Name:	Cesar Castaneda
Entity Title:	EHS Manager
Affiliation Address:	13425 WHITTRAM AVENUE
Affiliation City:	FONTANA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Vista Metals Corp.
Entity Title:	Not reported
Affiliation Address:	13425 Whittram Avenue
Affiliation City:	Fontana
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92335
Affiliation Phone:	(909) 823-4278

Affiliation Type Desc:	Parent Corporation
Entity Name:	VISTA METALS CORP
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	VIS METALS CORPRT
Entity Title:	Not reported
Affiliation Address:	13425 WHITTRAM AVENUE
Affiliation City:	FONTANA
Affiliation State:	Not reported
Affiliation Country:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Public Contact
Entity Name: CESAR CASTANEDA
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: 92335
Affiliation Phone: 9098296175

Affiliation Type Desc: Environmental Contact
Entity Name: CESAR CASTANEDA
Entity Title: MANAGER
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: JE Compliance Services
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: GREG EMANUELSON
Entity Title: EHS MANAGER
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: ROBERT PRAEFKE
Entity Title: VP OF OPERATIONS
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Cesar Castaneda
Entity Title: EHS Manager
Affiliation Address: Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: Vista Metals Corp.
Entity Title: Not reported
Affiliation Address: 13425 Whittram Avenue
Affiliation City: Fontana
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92335
Affiliation Phone: (909) 823-4278

Affiliation Type Desc: Public Contact
Entity Name: CESAR CASTANEDA
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: VISTA METALS CORPORATION
Address: 13425 WHITTRAM AVE
City,State,Zip: FONTANA, CA 92335
Site ID: 169445
CERS ID: 10046440
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 169445
Site Name: VISTA METALS CORPORATION
Violation Date: 10-01-2012
Citation: 03001 - Search Title 8 regulations for 4999 D02 at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description: Cal/OSHA Violation
Violation Notes: Not reported
Violation Division: Cal/OSHA
Violation Program: OSHA
Violation Source: CERS

Site ID: 169445
Site Name: VISTA METALS CORPORATION
Violation Date: 09-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to test or inspect each aboveground container for integrity based on industry standards discussed in the SPCC Plan: 1. On a regular schedule. 2. After making material repairs. 3. Use non-destructive testing. 4. Inspect each containerG s supports, foundations, and outside for signs of deterioration, discharges, or accumulation of oil inside diked areas.
Violation Notes: Returned to compliance on 11/07/2017. The integrity testing of tanks

VISTA METALS CORPORATION (Continued) **1000395229**

	has not been conducted as outlined in the SPCC Plan. Compliance Requirement: Submit a stament indicating that tanks AST-1, AST-2 and AST-5 have been tested per API 653 industry standards for initial integrity as outlined in the SPCC plan.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	169445
Site Name:	VISTA METALS CORPORATION
Violation Date:	12-31-2018
Citation:	03001 - Search Title 8 regulations for 3270(C) at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description:	Cal/OSHA Violation
Violation Notes:	Not reported
Violation Division:	Cal/OSHA
Violation Program:	OSHA
Violation Source:	CERS
Site ID:	169445
Site Name:	VISTA METALS CORPORATION
Violation Date:	11-22-2013
Citation:	01001 - Search Title 8 regulations for 3650 T12 at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description:	Cal/OSHA Violation
Violation Notes:	Not reported
Violation Division:	Cal/OSHA
Violation Program:	OSHA
Violation Source:	CERS
Site ID:	169445
Site Name:	VISTA METALS CORPORATION
Violation Date:	09-26-2014
Citation:	HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name.
Violation Notes:	Returned to compliance on 12/02/2014.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	169445
Site Name:	VISTA METALS CORPORATION
Violation Date:	05-04-2007
Citation:	04001 - Search Title 8 regulations for 4184 A at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description:	Cal/OSHA Violation
Violation Notes:	Not reported
Violation Division:	Cal/OSHA
Violation Program:	OSHA
Violation Source:	CERS

VISTA METALS CORPORATION (Continued) **1000395229**

Evaluation:

Eval General Type:	Occupational Safety and Health Administration Inspection
Eval Date:	04-27-2012
Violations Found:	Yes
Eval Type:	Cal/OSHA Inspection
Eval Notes:	Not reported
Eval Division:	Cal/OSHA
Eval Program:	OSHA
Eval Source:	CERS

Eval General Type:	Occupational Safety and Health Administration Inspection
Eval Date:	08-27-2018
Violations Found:	Yes
Eval Type:	Cal/OSHA Inspection
Eval Notes:	Not reported
Eval Division:	Cal/OSHA
Eval Program:	OSHA
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-01-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	CalARP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-26-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE HANDLER INSPECTION-VISTA METALS
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Occupational Safety and Health Administration Inspection
Eval Date:	08-22-2013
Violations Found:	Yes
Eval Type:	Cal/OSHA Inspection
Eval Notes:	Not reported
Eval Division:	Cal/OSHA
Eval Program:	OSHA
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-01-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-01-2017

VISTA METALS CORPORATION (Continued) **1000395229**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 01-10-2007
Violations Found: Yes
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE APSA INSPECTION-VISTA METALS
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE CALARP INSPECTION-VISTA METALS
Eval Division: San Bernardino County Fire Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-01-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION-VISTA METALS
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 169445
Site Name: VISTA METALS CORPORATION
Site Address: 13425 WHITTRAM AVE
Site City: FONTANA

VISTA METALS CORPORATION (Continued) **1000395229**

Site Zip: 92335
Enf Action Date: 09-26-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 169445
Facility Name: VISTA METALS CORPORATION
Env Int Type Code: FRS-AIR
Program ID: 110000479312
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 34.094600
Longitude: -117.513260

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Cesar Castaneda
Entity Title: Not reported
Affiliation Address: 13425 Whittram Avenue
Affiliation City: Fontana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92335
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 13425 Whittram Avenue
Affiliation City: Fontana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92335
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Vista Metals Corp.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 823-4278

Affiliation Type Desc: Technical Contact
Entity Name: JE Compliance Services
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Affiliation Country: Not reported
Affiliation Zip: 92335
Affiliation Phone: 9094833300

Affiliation Type Desc: Company Official
Entity Name: Cesar Castaneda
Entity Title: EHS Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: 92335
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Environmental Contact
Entity Name: Cesar Castaneda
Entity Title: EHS Manager
Affiliation Address: 13425 WHITTRAM AVENUE
Affiliation City: FONTANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Vista Metals Corp.
Entity Title: Not reported
Affiliation Address: 13425 Whittram Avenue
Affiliation City: Fontana
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92335
Affiliation Phone: (909) 823-4278

Affiliation Type Desc: Parent Corporation
Entity Name: VISTA METALS CORP
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: VIS METALS CORPRT
Entity Title: Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Affiliation Address:	13425 WHITTRAM AVENUE
Affiliation City:	FONTANA
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Public Contact
Entity Name:	CESAR CASTANEDA
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	92335
Affiliation Phone:	9098296175
Affiliation Type Desc:	Environmental Contact
Entity Name:	CESAR CASTANEDA
Entity Title:	MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	JE Compliance Services
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	GREG EMANUELSON
Entity Title:	EHS MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	ROBERT PRAEFKE
Entity Title:	VP OF OPERATIONS
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Affiliation Type Desc: Identification Signer
Entity Name: Cesar Castaneda
Entity Title: EHS Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: Vista Metals Corp.
Entity Title: Not reported
Affiliation Address: 13425 Whittram Avenue
Affiliation City: Fontana
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92335
Affiliation Phone: (909) 823-4278

Affiliation Type Desc: Public Contact
Entity Name: CESAR CASTANEDA
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: VISTA METALS CORPORATION
Address: 13425 WHITTRAM AVE
City,State,Zip: FONTANA, CA 92335
Site ID: 169445
CERS ID: 92335VSTMT13425
CERS Description: Toxic Release Inventory

Violations:

Site ID: 169445
Site Name: VISTA METALS CORPORATION
Violation Date: 10-01-2012
Citation: 03001 - Search Title 8 regulations for 4999 D02 at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description: Cal/OSHA Violation
Violation Notes: Not reported
Violation Division: Cal/OSHA
Violation Program: OSHA
Violation Source: CERS

Site ID: 169445
Site Name: VISTA METALS CORPORATION
Violation Date: 09-01-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to test or inspect each aboveground container for integrity based on industry standards discussed in the SPCC Plan: 1. On a regular schedule. 2. After making material repairs. 3. Use

VISTA METALS CORPORATION (Continued) **1000395229**

	non-destructive testing. 4. Inspect each containerG s supports, foundations, and outside for signs of deterioration, discharges, or accumulation of oil inside diked areas.
Violation Notes:	Returned to compliance on 11/07/2017. The integrity testing of tanks has not been conducted as outlined in the SPCC Plan. Compliance Requirement: Submit a stament indicating that tanks AST-1, AST-2 and AST-5 have been tested per API 653 industry standards for initial integrity as outlined in the SPCC plan.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	169445
Site Name:	VISTA METALS CORPORATION
Violation Date:	12-31-2018
Citation:	03001 - Search Title 8 regulations for 3270(C) at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description:	Cal/OSHA Violation
Violation Notes:	Not reported
Violation Division:	Cal/OSHA
Violation Program:	OSHA
Violation Source:	CERS
Site ID:	169445
Site Name:	VISTA METALS CORPORATION
Violation Date:	11-22-2013
Citation:	01001 - Search Title 8 regulations for 3650 T12 at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description:	Cal/OSHA Violation
Violation Notes:	Not reported
Violation Division:	Cal/OSHA
Violation Program:	OSHA
Violation Source:	CERS
Site ID:	169445
Site Name:	VISTA METALS CORPORATION
Violation Date:	09-26-2014
Citation:	HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name.
Violation Notes:	Returned to compliance on 12/02/2014.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	169445
Site Name:	VISTA METALS CORPORATION
Violation Date:	05-04-2007
Citation:	04001 - Search Title 8 regulations for 4184 A at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description:	Cal/OSHA Violation
Violation Notes:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Violation Division: Cal/OSHA
Violation Program: OSHA
Violation Source: CERS

Evaluation:
Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 04-27-2012
Violations Found: Yes
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 08-27-2018
Violations Found: Yes
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-01-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION-VISTA METALS
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 08-22-2013
Violations Found: Yes
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-01-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW

VISTA METALS CORPORATION (Continued) **1000395229**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-01-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 01-10-2007
Violations Found: Yes
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE APSA INSPECTION-VISTA METALS
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE CALARP INSPECTION-VISTA METALS
Eval Division: San Bernardino County Fire Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-01-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION-VISTA METALS
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

VISTA METALS CORPORATION (Continued) **1000395229**

Enforcement Action:

Site ID:	169445
Site Name:	VISTA METALS CORPORATION
Site Address:	13425 WHITTRAM AVE
Site City:	FONTANA
Site Zip:	92335
Enf Action Date:	09-26-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	169445
Facility Name:	VISTA METALS CORPORATION
Env Int Type Code:	FRS-AIR
Program ID:	110000479312
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	34.094600
Longitude:	-117.513260

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Cesar Castaneda
Entity Title:	Not reported
Affiliation Address:	13425 Whittram Avenue
Affiliation City:	Fontana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92335
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	13425 Whittram Avenue
Affiliation City:	Fontana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92335
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Vista Metals Corp.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 823-4278

Affiliation Type Desc:	Technical Contact

VISTA METALS CORPORATION (Continued) **1000395229**

Entity Name:	JE Compliance Services
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	92335
Affiliation Phone:	9094833300
Affiliation Type Desc:	Company Official
Entity Name:	Cesar Castaneda
Entity Title:	EHS Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	92335
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Environmental Contact
Entity Name:	Cesar Castaneda
Entity Title:	EHS Manager
Affiliation Address:	13425 WHITTRAM AVENUE
Affiliation City:	FONTANA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Vista Metals Corp.
Entity Title:	Not reported
Affiliation Address:	13425 Whittram Avenue
Affiliation City:	Fontana
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92335
Affiliation Phone:	(909) 823-4278
Affiliation Type Desc:	Parent Corporation
Entity Name:	VISTA METALS CORP
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	VIS METALS CORPRT
Entity Title:	Not reported
Affiliation Address:	13425 WHITTRAM AVENUE
Affiliation City:	FONTANA
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Public Contact
Entity Name:	CESAR CASTANEDA
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	92335
Affiliation Phone:	9098296175
Affiliation Type Desc:	Environmental Contact
Entity Name:	CESAR CASTANEDA
Entity Title:	MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	JE Compliance Services
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	GREG EMANUELSON
Entity Title:	EHS MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	ROBERT PRAEFKE
Entity Title:	VP OF OPERATIONS
Affiliation Address:	Not reported
Affiliation City:	Not reported

VISTA METALS CORPORATION (Continued) **1000395229**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Cesar Castaneda
Entity Title: EHS Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: Vista Metals Corp.
Entity Title: Not reported
Affiliation Address: 13425 Whittram Avenue
Affiliation City: Fontana
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92335
Affiliation Phone: (909) 823-4278

Affiliation Type Desc: Public Contact
Entity Name: CESAR CASTANEDA
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: VISTA METALS CORP.
Address: 13425 WHITTRAM AVENUE
City,State,Zip: FONTANA, CA 92335
Site ID: 546224
CERS ID: 270700
CERS Description: Industrial Facility Storm Water

Violations:
Site ID: 546224
Site Name: Vista Metals Corp.
Violation Date: 11-30-1999
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient Report
Violation Notes: Discharger has not submitted monthly reports in compliance with MRP.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 546224
Site Name: Vista Metals Corp.
Violation Date: 09-30-1999
Citation: 2014-0057-DWQ - Industrial General Permit

VISTA METALS CORPORATION (Continued) **1000395229**

Violation Description: SW - Deficient Report
Violation Notes: Discharger has not submitted monthly reports in compliance with MRP.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 546224
Site Name: Vista Metals Corp.
Violation Date: 12-31-1999
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient Report
Violation Notes: Discharger has not submitted monthly reports in compliance with MRP. Submitted as part of a quarterly report instead.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 546224
Site Name: Vista Metals Corp.
Violation Date: 10-31-1999
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient Report
Violation Notes: Discharger has not submitted monthly reports in compliance with MRP.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 546224
Site Name: Vista Metals Corp.
Violation Date: 07-02-1999
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient Report
Violation Notes: Non-submittal of Annual Report. Due 7//1/1999
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 546224
Site Name: Vista Metals Corp.
Violation Date: 08-31-1999
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient Report
Violation Notes: Discharger has not submitted monthly reports in compliance with MRP.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: Vista Metals Corp
Entity Title: Operator
Affiliation Address: 13425 Whittram Avenue
Affiliation City: Fontana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92335
Affiliation Phone: Not reported

O77 **KAISER SHELL CASING PLANT** **FUDS** **1024903552**
SSE **N/A**
1/2-1 **FONTANA, CA**
0.742 mi.
3919 ft. **Site 1 of 3 in cluster O**

Relative: FUDS:
Lower

EPA Region:	09
Installation ID:	CA99799F546900
Congressional District Number:	35
Facility Name:	KAISER SHELL CASING PLANT
FUDS Number:	J09CA0404
City:	FONTANA
State:	CA
County:	SAN BERNARDINO
Object ID:	3942
USACE District:	Los Angeles District (SPL)
Status:	Properties without projects
Current Owner:	Private Sector
EMS Map Link:	https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=61087
Eligibility:	Eligible
Has Projects:	No
NPL Status:	Not Listed
Latitude:	34.077500000000001
Longitude:	-117.52305556

Actual:
1047 ft.

O78 **NIRP TAYLOR FORGE LAB (J09CA1080)** **ENVIROSTOR** **S107737427**
SSE **N/A**
1/2-1 **FONTANA, CA 92335**
0.742 mi.
3920 ft. **Site 2 of 3 in cluster O**

Relative: ENVIROSTOR:
Lower

Name:	NIRP TAYLOR FORGE LAB (J09CA1080)
Address:	Not reported
City,State,Zip:	FONTANA, CA 92335
Facility ID:	80000675
Status:	No Further Action
Status Date:	11/27/2013
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	15
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Carrie Tatoian-Cain
Supervisor:	Dan Ward
Division Branch:	Cleanup Cypress
Assembly:	52
Senate:	20
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	34.0775
Longitude:	-117.5230
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED

Actual:
1048 ft.

NIRP TAYLOR FORGE LAB (J09CA1080) (Continued) **S107737427**

Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: J09CA0404
Alias Type: Alternate Name
Alias Name: J09CA1085
Alias Type: Alternate Name
Alias Name: CA99799F597900
Alias Type: Federal Facility ID
Alias Name: J09CA1080
Alias Type: INPR
Alias Name: 80000675
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 02/24/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Department of Defense Action Indicated (NDAI)
Completed Date: 11/27/2013
Comments: Please note that this determination is based on information in DTSC s and the Water Boards possession at this time concerning Department of Defense (DoD) activities on the sites listed above. DTSC and the Water Boards reserve the right to address any appropriate environmental or human health related issue, should additional information concerning the environmental condition of these sites become available in the future.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

O79 **KAISER SHELL CASING PLT** **ENVIROSTOR** **S107736524**
SSE **N/A**
1/2-1 **FONTANA, CA 91764**
0.742 mi.
3920 ft. **Site 3 of 3 in cluster O**

Relative:
Lower

Actual:
1048 ft.

ENVIROSTOR:
Name: KAISER SHELL CASING PLT
Address: Not reported
City,State,Zip: FONTANA, CA 91764
Facility ID: 80000271
Status: No Further Action
Status Date: 11/27/2013
Site Code: Not reported
Site Type: Military Evaluation
Site Type Detailed: FUDS

KAISER SHELL CASING PLT (Continued) **S107736524**

Acres:	15
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Dan Ward
Division Branch:	Cleanup Cypress
Assembly:	52
Senate:	20
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	34.0775
Longitude:	-117.5230
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	Explosives (UXO, MEC
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	J09CA1080
Alias Type:	Alternate Name
Alias Name:	J09CA1085
Alias Type:	Alternate Name
Alias Name:	CA99799F546900
Alias Type:	Federal Facility ID
Alias Name:	J09CA0404
Alias Type:	INPR
Alias Name:	80000271
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	No Department of Defense Action Indicated (NDAI)
Completed Date:	11/27/2013
Comments:	Please note that this determination is based on information in DTSC s and the Water Boards possession at this time concerning Department of Defense (DoD) activities on the sites listed above. DTSC and the Water Boards reserve the right to address any appropriate environmental or human health related issue, should additional information concerning the environmental condition of these sites become available in the future.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

P80 **BASE OIL SERVICE** **ENVIROSTOR** **S101591434**
ENE **13579 WHITTRAM** **SWEEPS UST** **N/A**
1/2-1 **FONTANA, CA 92335** **CA FID UST**
0.908 mi. **EMI**
4795 ft. **Site 1 of 2 in cluster P** **ICE**
NPDES
Relative: **San Bern. Co. Permit**
Higher

Actual: **1142 ft.**

ENVIROSTOR:

Name:	ADVANCED ENVIRONMENTAL INC
Address:	13579 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 923350000
Facility ID:	80001853
Status:	Active
Status Date:	05/07/2015
Site Code:	540018
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	5
NPL:	NO
Regulatory Agencies:	HWMP
Lead Agency:	HWMP
Program Manager:	Taryn Stokell Buck
Supervisor:	Lori Koch
Division Branch:	Office of Permitting
Assembly:	52
Senate:	20
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.09405
Longitude:	-117.5079
APN:	NONE SPECIFIED
Past Use:	ABOVE GROUND STORAGE TANKS, TRANSFER STATION, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, HAZARDOUS WASTE TREATMENT, OIL/WATER SEPARATORS, RECYCLING - USED OIL
Potential COC:	Arsenic Total Chromium (1:6 ratio Cr VI:Cr III Freon 113 Lead TPH-MOTOR OIL Copper and compounds
Confirmed COC:	Arsenic Lead Total Chromium (1:6 ratio Cr VI:Cr III Freon 113 Copper and compounds TPH-MOTOR OIL
Potential Description:	SOIL
Alias Name:	CAT080025711
Alias Type:	EPA Identification Number
Alias Name:	110008061907
Alias Type:	EPA (FRS #)
Alias Name:	400629
Alias Type:	Project Code (Site Code)
Alias Name:	540018
Alias Type:	Project Code (Site Code)
Alias Name:	80001853
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	RCRA Facility Assessment Report
Completed Date:	01/10/1996
Comments:	Not reported

BASE OIL SERVICE (Continued) **S101591434**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 06/25/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Construction Complete
Completed Date: 06/23/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/07/2013
Comments: Email correspondence was uploaded to document project resides in permitting.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 06/27/2005
Comments: Phase IV-B - RFI Report Received on 12/8/04

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 09/19/2004
Comments: Phase IV-B Workplan Received on 8/23/04

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 07/16/2004
Comments: Phase IV-A Report Received on 5/24/04

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 11/15/2003
Comments: Phase IV Workplan Received on 9/15/03

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 08/05/2003
Comments: Partial RFI report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 03/29/2007
Comments: RFI Report Approved. Final RFI Report originally received on 7/29/05.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

BASE OIL SERVICE (Continued) **S101591434**

Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 06/23/2008
Comments: No Further Action (NFA)Decision for Corrective Action Determination. DTSC held a 45-day public comment period from April 23, 2008 to June 9, 2008. No comments were received. SWMU's included SWMU-1, SWMU-2, AOC-1, AOC-2, AOC-3.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 08/05/2003
Comments: Phase III Exploration Report

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SWEEPS UST:
Name: BASE OIL SERVICE
Address: 13579 WHITTRAM
City: FONTANA
Status: Active
Comp Number: 8812
Number: 9
Board Of Equalization: 44-020124
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 09-06-88
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-008812-000001
Tank Status: A
Capacity: 1
Active Date: 09-06-88
Tank Use: UNKNOWN
STG: P
Content: UNKNOWN
Number Of Tanks: 1

CA FID UST:
Facility ID: 36007764
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 13579 WHITTRAM
Mailing Address 2: Not reported
Mailing City,St,Zip: FONTANA 92335
Contact: Not reported

BASE OIL SERVICE (Continued) **S101591434**

Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

EMI:

Name:	ADVANCED ENVIRONMENTAL INC
Address:	13579 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Year:	2011
County Code:	36
Air Basin:	SC
Facility ID:	74618
Air District Name:	SC
SIC Code:	4212
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.2003356558
Reactive Organic Gases Tons/Yr:	2.99526
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ADVANCED ENVIRONMENTAL INC
Address:	13579 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Year:	2015
County Code:	36
Air Basin:	SC
Facility ID:	74618
Air District Name:	SC
SIC Code:	2910
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.948591437
Reactive Organic Gases Tons/Yr:	4.93285555
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

ICE:

Envirostor ID:	3002372
Name:	ADVANCED ENVIRONMENTAL INC DBA WORLD OIL ENVIRONMENTAL SERVICES
Address:	13579 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
EPA ID:	CAT080025711
Site Type:	INSPECTION
Facility Status:	No Action

BASE OIL SERVICE (Continued) **S101591434**

Enforcement:
Action Type: Enforcement Dismissed (101)
Action Date: 06/13/2001

Action Type: Consent Order with Enforcement and Settlement - Federal CA/FO (385)
Action Date: 04/30/2005

Action Type: Consent Order with Enforcement and Settlement - Federal CA/FO (385)
Action Date: 03/14/2008

Action Type: Final Civil / Judicial Action (610)
Action Date: 05/21/1999

Action Type: Consent Order with Enforcement and Settlement - Federal CA/FO (385)
Action Date: 02/19/2009

Inspection:
Action Type: Financial Records Review - Standardized Permit
Action Date: 06/01/2009
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 05/08/2008
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 05/15/2002
Violation Class: Minor
RTC Date: 04/25/2003

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 04/30/2002
Violation Class: Class 1, Class 2
RTC Date: 04/21/2005

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 05/21/2001
Violation Class: Class 2
RTC Date: 04/30/2002

Action Type: Compliance Evaluation Inspection - Transporter
Action Date: 08/25/1998
Violation Class: Class 2, Minor
RTC Date: 05/21/1999

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/21/2000
Violation Class: Class 1, Class 2, Minor
RTC Date: 06/13/2001

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/13/2006
Violation Class: Minor
RTC Date: 08/28/2006

BASE OIL SERVICE (Continued) **S101591434**

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 06/07/2006
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/18/2008
Violation Class: Class 2
RTC Date: 08/28/2008

Action Type: Compliance Evaluation Inspection - Standardized Permit
Action Date: 09/28/2010
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Standardized Permit
Action Date: 09/21/2010
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/23/2003
Violation Class: Minor
RTC Date: 07/01/2003

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/14/2004
Violation Class: Minor
RTC Date: 07/19/2004

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/16/1999
Violation Class: Class 1
RTC Date: 10/02/2000

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 05/08/2007
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/04/2007
Violation Class: Class 2
RTC Date: 03/14/2008

Action Type: Compliance Evaluation Inspection - Standardized Permit
Action Date: 05/20/2009
Violation Class: Minor
RTC Date: 06/03/2009

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 06/18/2001
Violation Class: Minor
RTC Date: 11/11/2002

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 06/23/2004

BASE OIL SERVICE (Continued) **S101591434**

Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 02/28/2012
Violation Class: Class 2
RTC Date: 05/05/2012

Action Type: Financial Records Review - Standardized Permit
Action Date: 12/14/2017
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 07/19/2012
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 12/15/2015
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 10/27/2015
Violation Class: Class 2, Minor
RTC Date: 02/04/2016

Action Type: Compliance Evaluation Inspection - Standardized Permit
Action Date: 10/31/2017
Violation Class: No Violations
RTC Date: Not reported

NPDES:
Name: ADVANCED ENVIRONMENTAL INC
Address: 13579 WHITTRAM AVE
City,State,Zip: FONTANA, CA 92335
Facility Status: Active
NPDES Number: CAS000001
Region: 8
Agency Number: 0
Regulatory Measure ID: 426598
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 8 36I023618
Regulatory Measure Type: Enrollee
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 04/27/2012
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 13579 Whittram Avenue
Discharge Name: World Oil Environmental Services
Discharge City: Fontana
Discharge State: California
Discharge Zip: 92335

BASE OIL SERVICE (Continued) **S101591434**

Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	426598
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I023618
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/27/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	World Oil Environmental Services
Discharge Address:	13579 Whittram Avenue
Discharge City:	Fontana
Discharge State:	California
Discharge Zip:	92335
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported

BASE OIL SERVICE (Continued) **S101591434**

Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	426598
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I023618
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	04/27/2012
Processed Date:	04/27/2012
Status:	Active
Status Date:	04/27/2012
Place Size:	4.2
Place Size Unit:	Acres
Contact:	Bruce Pourhassanian
Contact Title:	Facility Manager
Contact Phone:	909-356-9025
Contact Phone Ext:	Not reported
Contact Email:	bpourhassanian@advancedenv.com

BASE OIL SERVICE (Continued) **S101591434**

Operator Name:	World Oil Environmental Services
Operator Address:	13579 Whittram Avenue
Operator City:	Fontana
Operator State:	California
Operator Zip:	92335
Operator Contact:	Bruce Pourhassanian
Operator Contact Title:	Facility Manager
Operator Contact Phone:	909-356-9025
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	bpourhassanian@advancedenv.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-356-9025
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Ana River
Certifier:	James Ennis
Certifier Title:	Chief Operating Officer
Certification Date:	12-JUN-15
Primary Sic:	4212-Local Trucking Without Storage
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	ADVANCED ENVIRONMENTAL INC
Address:	13579 WHITTRAM AVE
City,State,Zip:	FONTANA, CA 92335
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported

BASE OIL SERVICE (Continued) **S101591434**

WDID:	8 36I023618
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	04/27/2012
Operator Name:	World Oil Environmental Services
Operator Address:	13579 Whittram Avenue
Operator City:	Fontana
Operator State:	California
Operator Zip:	92335

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	426598
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I023618
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/27/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	World Oil Environmental Services
Discharge Address:	13579 Whittram Avenue
Discharge City:	Fontana
Discharge State:	California
Discharge Zip:	92335
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported

BASE OIL SERVICE (Continued) **S101591434**

Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	426598
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I023618
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported

BASE OIL SERVICE (Continued) **S101591434**

Discharge Zip:	Not reported
Received Date:	04/27/2012
Processed Date:	04/27/2012
Status:	Active
Status Date:	04/27/2012
Place Size:	4.2
Place Size Unit:	Acres
Contact:	Bruce Pourhassanian
Contact Title:	Facility Manager
Contact Phone:	909-356-9025
Contact Phone Ext:	Not reported
Contact Email:	bpourhassanian@advancedenv.com
Operator Name:	World Oil Environmental Services
Operator Address:	13579 Whittram Avenue
Operator City:	Fontana
Operator State:	California
Operator Zip:	92335
Operator Contact:	Bruce Pourhassanian
Operator Contact Title:	Facility Manager
Operator Contact Phone:	909-356-9025
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	bpourhassanian@advancedenv.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-356-9025
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Ana River
Certifier:	James Ennis
Certifier Title:	Chief Operating Officer
Certification Date:	12-JUN-15
Primary Sic:	4212-Local Trucking Without Storage
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

BASE OIL SERVICE (Continued) **S101591434**

San Bern. Co. Permit:
Name: ADVANCED ENVIRONMENTAL INC
Address: 13579 WHITTRAM AVE
City,State,Zip: FONTANA, CA 92335
Region: SAN BERNARDINO
Facility ID: FA0000301
Owner: Advanced Environmental, Inc., dba World Oil Environmental Services
Permit Number: PT0001038
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 09/30/2020

Name: ADVANCED ENVIRONMENTAL INC
Address: 13579 WHITTRAM AVE
City,State,Zip: FONTANA, CA 92335
Region: SAN BERNARDINO
Facility ID: FA0000301
Owner: Advanced Environmental, Inc., dba World Oil Environmental Services
Permit Number: PT0001037
Permit Category: LARGE QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2020

Name: ADVANCED ENVIRONMENTAL INC
Address: 13579 WHITTRAM AVE
City,State,Zip: FONTANA, CA 92335
Region: SAN BERNARDINO
Facility ID: FA0000301
Owner: Advanced Environmental, Inc., dba World Oil Environmental Services
Permit Number: PT0020773
Permit Category: APSA 10,001-100,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 09/30/2020

P81 **ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRON** **CORRACTS** **1000367263**
ENE **13579 WHITTRAM AVENUE** **RCRA-LQG** **CAT080025711**
1/2-1 **FONTANA, CA 92335** **US FIN ASSUR**
0.908 mi. **PADS**
4795 ft. **Site 2 of 2 in cluster P** **HWP**

Relative: **Higher**
Actual: **1142 ft.**

CORRACTS:
Region: 09
Name: ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SERVICES
Address: 13579 WHITTRAM AVENUE
Address 2: Not reported
City,State,Zip: FONTANA, CA 92335-0000
EPA ID: CAT080025711
Area Name: ENTIRE FACILITY
Corrective Action: CA150
Actual Date: 2003-11-15 00:00:00.0
NAICS Code 1: 562112
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SERVICES

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Address: 13579 WHITTRAM AVENUE
Address 2: Not reported
City,State,Zip: FONTANA, CA 92335-0000
EPA ID: CAT080025711
Area Name: ENTIRE FACILITY
Corrective Action: CA200
Actual Date: 2003-08-05 00:00:00.0
NAICS Code 1: 562112
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SERVICES
Address: 13579 WHITTRAM AVENUE
Address 2: Not reported
City,State,Zip: FONTANA, CA 92335-0000
EPA ID: CAT080025711
Area Name: ENTIRE FACILITY
Corrective Action: CA200
Actual Date: 2007-03-29 00:00:00.0
NAICS Code 1: 562112
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SERVICES
Address: 13579 WHITTRAM AVENUE
Address 2: Not reported
City,State,Zip: FONTANA, CA 92335-0000
EPA ID: CAT080025711
Area Name: ENTIRE FACILITY
Corrective Action: CA200
Actual Date: 2005-06-27 00:00:00.0
NAICS Code 1: 562112
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SERVICES
Address: 13579 WHITTRAM AVENUE
Address 2: Not reported
City,State,Zip: FONTANA, CA 92335-0000
EPA ID: CAT080025711
Area Name: ENTIRE FACILITY
Corrective Action: CA150
Actual Date: 2004-09-19 00:00:00.0
NAICS Code 1: 562112
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SERVICES
Address: 13579 WHITTRAM AVENUE

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Address 2:	Not reported
City,State,Zip:	FONTANA, CA 92335-0000
EPA ID:	CAT080025711
Area Name:	ENTIRE FACILITY
Corrective Action:	CA200
Actual Date:	2004-07-16 00:00:00.0
NAICS Code 1:	562112
NAICS Code 2:	Not reported
NAICS Code 3:	Not reported
NAICS Code 4:	Not reported

Region:	09
Name:	ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SERVICES
Address:	13579 WHITTRAM AVENUE
Address 2:	Not reported
City,State,Zip:	FONTANA, CA 92335-0000
EPA ID:	CAT080025711
Area Name:	ENTIRE FACILITY
Corrective Action:	CA550RC
Actual Date:	2008-06-23 00:00:00.0
NAICS Code 1:	562112
NAICS Code 2:	Not reported
NAICS Code 3:	Not reported
NAICS Code 4:	Not reported

RCRA-LQG:

Date form received by agency:	2019-01-04 00:00:00.0
Facility name:	ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SERVICES
Facility address:	13579 WHITTRAM AVENUE FONTANA, CA 92335-0000
EPA ID:	CAT080025711
Mailing address:	WHITTRAM AVENUE FONTANA, CA 92335-0000
Contact:	BRUCE POURHASSANIAN
Contact address:	WHITTRAM AVENUE FONTANA, CA 92335-0000
Contact country:	US
Contact telephone:	909-356-9025
Telephone ext.:	4301
Contact email:	BPOURHASSANIAN@WORLDOILCORP.COM
EPA Region:	09
Land type:	Private
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) 1000367263

Owner/Operator Summary:

Owner/operator name:	ADVANCED ENVIRONMENTAL, INC.
Owner/operator address:	13579 WHITTRAN AVENUE
	FONTANA, CA 92335
Owner/operator country:	US
Owner/operator telephone:	909-356-9025
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	1995-11-01 00:00:00.
Owner/Op end date:	Not reported

Owner/operator name:	ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SERVICES
Owner/operator address:	WHITTRAM AVENUE
	FONTANA, CA 92335
Owner/operator country:	US
Owner/operator telephone:	909-356-9025
Owner/operator email:	BPOURHASSANIAN@WORLDOILCORP.COM
Owner/operator fax:	Not reported
Owner/operator extension:	4301
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	1995-11-01 00:00:00.
Owner/Op end date:	Not reported

Owner/operator name:	ADVANCED ENVIRONMENTAL, INC.
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	1995-11-01 00:00:00.
Owner/Op end date:	Not reported

Owner/operator name:	ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SERVICES
Owner/operator address:	WHITTRAM AVENUE
	FONTANA, CA 92335
Owner/operator country:	US
Owner/operator telephone:	909-356-9025
Owner/operator email:	BPOURHASSANIAN@WORLDOILCORP.COM
Owner/operator fax:	Not reported
Owner/operator extension:	4301
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	1995-11-01 00:00:00.
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	Yes
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency: 2018-03-01 00:00:00.0
Site name: ADVANCED ENVIRONMENTAL INC
Classification: Large Quantity Generator

Date form received by agency: 2016-10-28 00:00:00.0
Site name: ADVANCED ENVIRONMENTAL, INC.
Classification: Large Quantity Generator

Date form received by agency: 2012-09-11 00:00:00.0
Site name: ADVANCED ENVIRONMENTAL, INC.
Classification: Large Quantity Generator

Date form received by agency: 2010-07-01 00:00:00.0
Site name: ADVANCED ENVIRONMENTAL, INC.
Classification: Large Quantity Generator

Date form received by agency: 2008-05-12 00:00:00.0
Site name: ADVANCED ENVIRONMENTAL, INC.
Classification: Large Quantity Generator

Date form received by agency: 2006-02-28 00:00:00.0
Site name: ADVANCED ENVIRONMENTAL, INC.
Classification: Large Quantity Generator

Date form received by agency: 2002-02-28 00:00:00.0
Site name: ADVANCED ENVIRONMENTAL, INC
Classification: Large Quantity Generator

Date form received by agency: 2000-10-12 00:00:00.0
Site name: ADVANCED ENVIRONMENTAL, INC.
Classification: Large Quantity Generator

Date form received by agency: 1996-09-01 00:00:00.0
Site name: FNHJEH ENVIRONMENTAL MANAGEMENT INC
Classification: Small Quantity Generator

Date form received by agency: 1990-01-30 00:00:00.0
Site name: FNHJEH ENVIRONMENTAL MANAGEMENT INC
Classification: Large Quantity Generator

Hazardous Waste Summary:

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

. Waste code: 132
. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 133
. Waste name: Aqueous solution with 10% or more total organic residues

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 171
. Waste name: Metal sludge (see 121)

. Waste code: 172
. Waste name: Metal dust (see 121) and machining waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 222
. Waste name: Oil/water separation sludge

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 241
. Waste name: Tank bottom waste

. Waste code: 261
. Waste name: Polychlorinated biphenyls and material containing PCB’s

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 341
. Waste name: Organic liquids (nonsolvents) with halogens

. Waste code: 342
. Waste name: Organic liquids with metals (see 121)

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 491
. Waste name: Unspecified sludge waste

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

. Waste code: 511
. Waste name: Empty pesticide containers 30 gallons or more

. Waste code: 521
. Waste name: Drilling mud

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: 612
. Waste name: Household waste

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D008
. Waste name: LEAD

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Corrective Action Summary:
Event date: 1995-03-06 00:00:00.0
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 1996-01-10 00:00:00.0
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Event date: 1996-07-18 00:00:00.0
Event: INVESTIGATION IMPOSITION

Event date: 2002-02-01 00:00:00.0
Event: INVESTIGATION REPORT RECEIVED

Event date: 2002-05-01 00:00:00.0
Event: INVESTIGATION REPORT RECEIVED

Event date: 2002-09-01 00:00:00.0
Event: INVESTIGATION REPORT RECEIVED

Event date: 2003-07-01 00:00:00.0
Event: INVESTIGATION REPORT RECEIVED

Event date: 2003-08-05 00:00:00.0
Event: INVESTIGATION COMPLETE

Event date: 2003-09-15 00:00:00.0
Event: INVESTIGATION WORKPLAN RECEIVED

Event date: 2003-11-15 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 2004-05-24 00:00:00.0
Event: INVESTIGATION REPORT RECEIVED

Event date: 2004-07-16 00:00:00.0
Event: INVESTIGATION COMPLETE

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Event date: 2004-09-19 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 2004-12-08 00:00:00.0
Event: INVESTIGATION REPORT RECEIVED

Event date: 2005-06-27 00:00:00.0
Event: INVESTIGATION COMPLETE

Event date: 2005-07-29 00:00:00.0
Event: INVESTIGATION REPORT RECEIVED

Event date: 2007-03-29 00:00:00.0
Event: INVESTIGATION COMPLETE

Event date: 2008-06-23 00:00:00.0
Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 2008-06-23 00:00:00.0
Event: REMEDY CONSTRUCTION

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2015-10-27 00:00:00.0
Date achieved compliance: 2016-02-04 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2015-12-22 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2012-02-28 00:00:00.0
Date achieved compliance: 2012-05-05 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2012-03-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2009-05-20 00:00:00.0
Date achieved compliance: 2009-06-03 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2009-05-20 00:00:00.0

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2008-06-18 00:00:00.0
Date achieved compliance: 2008-08-28 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2008-07-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2008-06-18 00:00:00.0
Date achieved compliance: 2008-08-28 00:00:00.0
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 2009-02-19 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 9000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 2007-06-04 00:00:00.0
Date achieved compliance: 2008-03-14 00:00:00.0
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 2008-03-14 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 7500
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 2007-06-04 00:00:00.0
Date achieved compliance: 2008-03-14 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2007-06-12 00:00:00.0
Enf. disposition status: Not reported

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 2006-06-13 00:00:00.0
Date achieved compliance: 2006-08-28 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2006-06-26 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 2004-06-14 00:00:00.0
Date achieved compliance: 2004-07-19 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2004-06-17 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 2003-06-23 00:00:00.0
Date achieved compliance: 2003-07-01 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2003-07-01 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 2002-05-15 00:00:00.0
Date achieved compliance: 2003-04-25 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2002-12-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 2002-04-30 00:00:00.0
Date achieved compliance: 2003-07-01 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2002-05-14 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Manifest/Records/Reporting
Date violation determined: 2002-04-30 00:00:00.0
Date achieved compliance: 2003-07-01 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2002-05-14 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Preparedness and Prevention
Date violation determined: 2002-04-30 00:00:00.0
Date achieved compliance: 2003-07-01 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2002-05-14 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Tank System Standards
Date violation determined: 2002-04-30 00:00:00.0
Date achieved compliance: 2003-07-01 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2002-05-14 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Permits - Application
Date violation determined: 2002-04-30 00:00:00.0
Date achieved compliance: 2005-04-21 00:00:00.0
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 2005-04-30 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 19500
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Permits - Application
Date violation determined: 2002-04-30 00:00:00.0
Date achieved compliance: 2005-04-21 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2002-05-14 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 2001-06-18 00:00:00.0
Date achieved compliance: 2002-11-11 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2001-06-21 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 2001-05-21 00:00:00.0
Date achieved compliance: 2002-04-30 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2001-06-12 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 2000-06-21 00:00:00.0
Date achieved compliance: 2001-06-13 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2000-06-21 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 2000-06-21 00:00:00.0
Date achieved compliance: 2001-06-13 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2001-06-13 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 1999-06-16 00:00:00.0
Date achieved compliance: 2000-10-02 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 1999-11-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 1998-08-25 00:00:00.0
Date achieved compliance: 1998-08-25 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 1998-08-25 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Paid penalty amount: Not reported

Regulation violated: - 263
Area of violation: Transporters - General
Date violation determined: 1998-08-25 00:00:00.0
Date achieved compliance: 1999-05-21 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1998-08-25 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 33000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Transporters - Manifest System and Recordkeeping
Date violation determined: 1998-08-25 00:00:00.0
Date achieved compliance: 1999-05-21 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Transporters - Manifest System and Recordkeeping
Date violation determined: 1998-08-25 00:00:00.0
Date achieved compliance: 1999-05-21 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1999-05-21 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 33000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Transporters - Manifest System and Recordkeeping
Date violation determined: 1998-08-25 00:00:00.0
Date achieved compliance: 1999-05-21 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 1998-08-25 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Regulation violated: F - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 1998-03-23 00:00:00.0
Date achieved compliance: 1998-10-07 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 1998-09-22 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 4000
Paid penalty amount: 4000

Regulation violated: F - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 1997-04-15 00:00:00.0
Date achieved compliance: 1997-12-23 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 1997-08-27 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 4000
Paid penalty amount: 4000

Regulation violated: F - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 1997-04-15 00:00:00.0
Date achieved compliance: 1997-12-23 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 1997-08-27 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 4000
Paid penalty amount: 4000

Regulation violated: F - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 1997-04-15 00:00:00.0
Date achieved compliance: 1997-12-23 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 1997-08-27 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 4000
Paid penalty amount: 4000

Regulation violated: F - 264.140-150.H

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Area of violation: TSD - Financial Requirements
Date violation determined: 1995-12-20 00:00:00.0
Date achieved compliance: 1996-06-10 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1995-12-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 1995-12-06 00:00:00.0
Date achieved compliance: 1996-06-10 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1995-12-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 1995-12-06 00:00:00.0
Date achieved compliance: 1996-06-10 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1995-12-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 1995-01-31 00:00:00.0
Date achieved compliance: 1996-06-10 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.10-12.A
Area of violation: Generators - General

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Date violation determined: 1995-01-31 00:00:00.0
Date achieved compliance: 1996-06-10 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 1995-01-31 00:00:00.0
Date achieved compliance: 1996-06-10 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1995-01-31 00:00:00.0
Date achieved compliance: 1996-06-10 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 1993-12-06 00:00:00.0
Date achieved compliance: 1994-12-22 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-12-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 1993-12-06 00:00:00.0

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Date achieved compliance: 1994-12-22 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-12-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 1993-12-06 00:00:00.0
Date achieved compliance: 1994-12-22 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-12-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 1993-12-06 00:00:00.0
Date achieved compliance: 1994-12-22 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 1993-12-06 00:00:00.0
Date achieved compliance: 1994-12-22 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-12-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 1993-12-06 00:00:00.0
Date achieved compliance: 1994-12-22 00:00:00.0

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 1993-12-06 00:00:00.0
Date achieved compliance: 1994-12-22 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 1993-12-06 00:00:00.0
Date achieved compliance: 1994-12-22 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-12-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 1993-12-06 00:00:00.0
Date achieved compliance: 1994-12-22 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 1993-05-14 00:00:00.0
Date achieved compliance: 1994-12-22 00:00:00.0
Violation lead agency: State

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1993-05-14 00:00:00.0
Date achieved compliance: 1994-12-22 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.50-60
Area of violation: Generators - General
Date violation determined: 1990-05-24 00:00:00.0
Date achieved compliance: 1993-05-14 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-07-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 263
Area of violation: Transporters - General
Date violation determined: 1990-05-24 00:00:00.0
Date achieved compliance: 1993-05-14 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-07-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 2017-12-14 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Evaluation date: 2017-10-31 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2016-02-04 00:00:00.0
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2015-12-15 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2015-10-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2016-02-04 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2015-10-27 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2012-07-19 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2012-02-28 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2012-05-05 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2010-09-28 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2010-09-21 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-06-01 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-05-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2009-06-03 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2008-06-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2008-08-28 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2008-05-08 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2007-06-04 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 2008-03-14 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2007-05-08 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2006-06-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 2006-08-28 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2006-06-07 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2005-04-21 00:00:00.0
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2004-06-23 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Evaluation date: 2004-06-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 2004-07-19 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2003-06-23 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 2003-07-01 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2002-05-15 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 2003-04-25 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2002-04-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 2003-07-01 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2002-04-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Preparedness and Prevention
Date achieved compliance: 2003-07-01 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2002-04-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Permits - Application
Date achieved compliance: 2005-04-21 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2002-04-30 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2002-04-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Manifest/Records/Reporting
Date achieved compliance: 2003-07-01 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2002-04-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Tank System Standards
Date achieved compliance: 2003-07-01 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2001-06-18 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Date achieved compliance: 2002-11-11 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2001-06-13 00:00:00.0
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2001-05-21 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 2002-04-30 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2000-06-21 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 2001-06-13 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2000-06-21 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 1999-06-16 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 2000-10-02 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1999-06-16 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1998-08-25 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Transporters - Manifest System and Recordkeeping
Date achieved compliance: 1999-05-21 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1998-08-25 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Transporters - General
Date achieved compliance: 1999-05-21 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1998-08-25 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 1998-08-25 00:00:00.0
Evaluation lead agency: State

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Evaluation date: 1998-03-23 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1998-03-23 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1998-10-07 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1997-04-15 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1997-12-23 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1995-12-06 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1996-06-10 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1995-12-06 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1996-06-10 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-12-22 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1996-06-10 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-12-22 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1996-06-10 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-12-22 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 1996-06-10 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-10-26 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1994-12-22 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-10-26 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Date achieved compliance: 1994-12-22 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-04-05 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1993-03-08 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1994-12-22 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-03-08 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1994-12-22 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1990-05-24 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1993-05-14 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1990-05-24 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Transporters - General
Date achieved compliance: 1993-05-14 00:00:00.0
Evaluation lead agency: State

US FIN ASSUR:
Name: ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SERVICES
Address: 13579 WHITTRAM AVENUE
City,State,Zip: FONTANA, CA
EPA ID: CAT080025711
County: Not reported
Mechanism type: I
Mechanism Type Description: INSURANCE
Cost estimate: 2000000
Face value: 2000000
Effective date: 2012-10-31 00:00:00
Provider: CHARTIS SPECIALTY
EPA region: 9

Name: ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SERVICES
Address: 13579 WHITTRAM AVENUE
City,State,Zip: FONTANA, CA
EPA ID: CAT080025711
County: Not reported
Mechanism type: L
Mechanism Type Description: LETTER OF CREDIT
Cost estimate: 541423
Face value: 541423
Effective date: 2010-05-05 00:00:00
Provider: WELLS FARGO BANK

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) 1000367263

EPA region: 9

Name: ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SERVICES
Address: 13579 WHITTRAM AVENUE
City,State,Zip: FONTANA, CA
EPA ID: CAT080025711
County: Not reported
Mechanism type: X
Mechanism Type Description: STANDBY TRUST FUND
Cost estimate: 541423
Face value: 0
Effective date: 2001-06-25 00:00:00
Provider: BANK OF THE WEST
EPA region: 9

PADS:
Name: ADVANCED ENVIRONMENTAL, INC.
Address: 13579 WHITTRAM AVENUE
Address 2: Not reported
City,State,Zip: FONTANA, CA 92335
EDR ID: 1000367263
EPAID: CAT080025711
Region: 9
Generator: Y
Storer: Y
Disposer: N
Transporter: N
Smelter: N
Research Facility: N
Mailing Address: 13579 WHITTRAM AVENUE
Mailing Address 2: Not reported
Mailing City: FONTANA
Mailing State: CA
Mailing Zip: 92335
Mailing Country: US
Owner Name: ADVANCED ENVIRONMENTAL, INC.
Certification Date: 05/27/2005
Contact Name: ROSEMARY DOMINO
Contact Title: Not reported
Contact Telephone: 323-268-5056
Contact Text: Not reported
Contact Email: Not reported

HWP:
Name: ADVANCED ENVIRONMENTAL INC DBA WORLD OIL ENVIRONMENTAL SERVICES
Address: 13579 WHITTRAM AVE
City,State,Zip: FONTANA, CA 923350000
EPA Id: CAT080025711
Cleanup Status: OPERATING PERMIT
Latitude: 34.09405
Longitude: -117.5079
Facility Type: Permitted - Operating
Facility Size: Standardized Series B
Team: LORI KOCH
Supervisor: ALFRED WONG
Site Code: 00000, 400629, 540018

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Assembly District: 52
Senate District: 20
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: New Operating Permit - PERMIT APPEALED - FINAL DECISION
Actual Date: 05/11/2009

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: New Operating Permit - FINAL CEQA
Actual Date: 09/24/2007

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date: 01/29/2018

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date: 11/09/2017

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: *Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date: 03/07/2017

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - ACKNOWLEDGEMENT OF PERMIT MOD LETTER
Actual Date: 11/27/2017

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

EPA Id:	CAT080025711
Facility Type:	Permitted - Operating
Unit Names:	Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area
Event Description:	Renewal - No Changes - DTSC MEETING WITH APPLICANT
Actual Date:	08/12/2016

EPA Id:	CAT080025711
Facility Type:	Permitted - Operating
Unit Names:	Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area
Event Description:	Renewal - No Changes - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date:	02/05/2019

EPA Id:	CAT080025711
Facility Type:	Permitted - Operating
Unit Names:	Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area
Event Description:	Renewal - No Changes - CALL-IN LETTER ISSUED
Actual Date:	04/22/2016

EPA Id:	CAT080025711
Facility Type:	Permitted - Operating
Unit Names:	Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area
Event Description:	Renewal - No Changes - RESPONSE TO 1ST NOD RECEIVED
Actual Date:	07/02/2019

EPA Id:	CAT080025711
Facility Type:	Permitted - Operating
Unit Names:	Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description:	New Operating Permit - APPLICATION PART B RECEIVED
Actual Date:	08/01/2001

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) 1000367263

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: OTHRTRT1, OTHRTRT2, OTHRTRT3, OTHRTRT5, TANKSTR1
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 11/17/1998

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: New Operating Permit - PUBLIC COMMENT (END)
Actual Date: 04/25/2005

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 09/24/2007

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: New Operating Permit - PERMIT APPEALED - APPEAL RECEIVED
Actual Date: 10/23/2007

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area
Event Description: Renewal - No Changes - INITIAL ADMINISTRATIVE REVIEW COMPLETED

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Actual Date: 08/23/2017

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: New Operating Permit - CEQA DETERMINATION
Actual Date: 09/24/2007

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area
Event Description: Renewal - No Changes - APPLICATION PART B RECEIVED
Actual Date: 07/26/2017

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date: 10/23/2017

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area
Event Description: Renewal - No Changes - PUBLIC COMMENT (PUBLIC MEETING)
Actual Date: 06/02/2020

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: *Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date: 02/21/2017

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area
Event Description: Renewal - No Changes - APPLICATION PART A RECEIVED
Actual Date: 07/26/2017

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area
Event Description: Renewal - No Changes - ADMINISTRATIVE REVIEW APPROVED
Actual Date: 08/23/2017

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: OTHRTRT1, OTHRTRT2, OTHRTRT3, OTHRTRT5, TANKSTR1
Event Description: New Operating Permit - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 02/15/1996

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date: 11/27/2017

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area
Event Description: Renewal - No Changes - PUBLIC NOTICE - PERMIT RECEIVED
Actual Date: 10/13/2017

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: *Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EXPIRES)
Actual Date: 10/23/2017

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) 1000367263

#3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: New Operating Permit - FINAL PART A & PART B RECEIVED
Actual Date: 02/25/2005

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date: 02/07/2018

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: New Operating Permit - DRAFT PERMIT
Actual Date: 03/11/2005

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area
Event Description: Renewal - No Changes - PUBLIC COMMENT (END)
Actual Date: 06/15/2020

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area
Event Description: Renewal - No Changes - PUBLIC COMMENT (PUBLIC HEARING)
Actual Date: 06/02/2020

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: OTHRTRT1, OTHRTRT2, OTHRTRT3, OTHRTRT5, TANKSTR1
Event Description: New Operating Permit - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 06/30/1996

EPA Id: CAT080025711

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date: 05/11/2009

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: Mod Class 1 - No Prior Approval Required - ACKNOWLEDGEMENT OF PERMIT MOD LETTER
Actual Date: 02/07/2018

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area
Event Description: Renewal - No Changes - TECHNICAL REVIEW BEGIN
Actual Date: 09/11/2017

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: New Operating Permit - TECHNICAL COMPLETE LETTER
Actual Date: 02/25/2005

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #1 - New Used Oil Storage Tanks T-1000 through T-1005, Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #2 - New Used Oil Storage Tanks T-471 through T-478, Unit #3 - New Oily Water Storage Tanks T-479 and T-480, Unit #4 - New Used Antifreeze Tank T-481 and T-482, Unit #5 - New Used Antifreeze Tanks T-483 and T-484, Unit #6 - Roll-off Bins Storage Area, Unit #7 - Drum Storage Area, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date: 03/11/2005

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Closure:

EPA Id:	CAT080025711
Facility Type:	Permitted - Operating
Unit Names:	Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description:	Closure - RESPONSE TO 1ST NOD RECEIVED
Actual Date:	05/03/2019

EPA Id:	CAT080025711
Facility Type:	Permitted - Operating
Unit Names:	Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description:	Closure - CLOSURE PLAN RECEIVED
Actual Date:	06/26/2012

EPA Id:	CAT080025711
Facility Type:	Permitted - Operating
Unit Names:	OTHRTRT1, OTHRTRT2, OTHRTRT3, OTHRTRT5, TANKSTR1
Event Description:	Closure - PUBLIC COMMENT (BEGIN)
Actual Date:	11/08/2002

EPA Id:	CAT080025711
Facility Type:	Permitted - Operating
Unit Names:	OTHRTRT1, OTHRTRT2, OTHRTRT3, OTHRTRT5, TANKSTR1
Event Description:	Closure - CLOSURE PLAN RECEIVED
Actual Date:	01/01/2000

EPA Id:	CAT080025711
Facility Type:	Permitted - Operating
Unit Names:	OTHRTRT1, OTHRTRT2, OTHRTRT3, OTHRTRT5, TANKSTR1
Event Description:	Closure - CLOSURE PLAN APPROVED
Actual Date:	12/15/2002

EPA Id:	CAT080025711
Facility Type:	Permitted - Operating
Unit Names:	OTHRTRT1, OTHRTRT2, OTHRTRT3, OTHRTRT5, TANKSTR1
Event Description:	Closure - ISSUE CLOSURE VERIFICATION
Actual Date:	03/29/2007

EPA Id:	CAT080025711
Facility Type:	Permitted - Operating
Unit Names:	OTHRTRT1, OTHRTRT2, OTHRTRT3, OTHRTRT5, TANKSTR1
Event Description:	Closure - PUBLIC COMMENT (END)
Actual Date:	11/08/2002

EPA Id:	CAT080025711
Facility Type:	Permitted - Operating
Unit Names:	Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description:	Closure - RESPONSE TO 2ND NOD RECEIVED
Actual Date:	09/05/2019

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: OTHRTRT1, OTHRTRT2, OTHRTRT3, OTHRTRT5, TANKSTR1
Event Description: Closure - RECEIVE CLOSURE CERTIFICATION
Actual Date: 07/31/2003

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: Closure - CLOSURE PLAN APPROVED
Actual Date: 09/10/2019

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: Closure - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 03/04/2019

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Unit Names: Unit #10 - Used Antifreeze Stoarge Tank T-501, Unit #11 - Oily Water Storage Tanks T-651 and T-652, Unit #12 - Used Oil Storage Tanks V-511 through V-513, Unit #8 - Used Oil Storage Tanks T-1001 through T-1005, Unit #9 - Used Oil Storage Tanks T-451 through T-454
Event Description: Closure - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date: 09/03/2019

Alias:
EPA Id: CAT080025711
Facility Type: Permitted - Operating
Alias Type: Project Code (Site Code)
Alias: 00000

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Alias Type: FRS
Alias: 110008061907

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Alias Type: Project Code (Site Code)
Alias: 400629

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Alias Type: Project Code (Site Code)
Alias: 540018

EPA Id: CAT080025711
Facility Type: Permitted - Operating
Alias Type: EPA Identification Number

ADVANCED ENVIRONMENTAL, INC. DBA WORLD OIL ENVIRONMENTAL SER (Continued) **1000367263**

Alias: CAT080025711

Maintenance:
EPA Id: CAT080025711
Title: Fee For Service Notification
Document Type: Correspondence
Received Date: 10/27/2016

EPA Id: CAT080025711
Title: Notification of Change in DTSC Project Manager
Document Type: Correspondence
Received Date: 05/02/2017

Q82 **CHEMWEST INDUSTRIES** **ENVIROSTOR** **S103442717**
SE **13425 SAN BERNARDINO AVE** **CPS-SLIC** **N/A**
1/2-1 **FONTANA, CA 92335** **WMUDS/SWAT**
0.924 mi. **HIST UST**
4879 ft. **Site 1 of 3 in cluster Q** **DEED**
LDS
Relative: Lower **ENF**
HIST CORTESE
Actual: 1053 ft. **CIWQS**
CERS

ENVIROSTOR:
Name: CHEMWEST INDUSTRIES INC
Address: 13425 SAN BERNARDINO AVE
City,State,Zip: FONTANA, CA 923350000
Facility ID: 80001364
Status: Certified / Operation & Maintenance
Status Date: 06/18/2012
Site Code: 600088
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 31
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: MBR
Program Manager: Peter Bailey
Supervisor: Edward Nieto
Division Branch: Cleanup Legacy Landfills
Assembly: 52
Senate: 20
Special Program: Not reported
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.07709
Longitude: -117.5179
APN: NONE SPECIFIED
Past Use: LANDFILL - HAZARDOUS WASTE, MANUFACTURING - METAL, METAL FINISHING, WASTE - INDUSTRIAL TREATMENT FACILITY, WASTE - INDUSTRIAL WASTE LINE, WASTE - SEWAGE TREATMENT PLANT, WASTE - SEWAGE TREATMENT PONDS, WASTE WATER PONDS
Potential COC: Under Investigation
Confirmed COC: 31001-NO

CHEMWEST INDUSTRIES (Continued) **S103442717**

Potential Description: OTH
Alias Name: CAD040520975
Alias Type: EPA Identification Number
Alias Name: 110000621195
Alias Type: EPA (FRS #)
Alias Name: 600088
Alias Type: Project Code (Site Code)
Alias Name: 36280139
Alias Type: Envirostor ID Number
Alias Name: 80001364
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 05/19/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 02/14/1990
Comments: Confirmed via RCRA Corrective Action Analogous Review report dated 6/17/99.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 08/11/2000
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: CHEMWEST UPPER PONDS
Completed Document Type: Consent Agreement
Completed Date: 12/05/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 02/13/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 12/22/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 12/13/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

CHEMWEST INDUSTRIES (Continued) **S103442717**

Completed Document Type: Human Exposure Controlled
Completed Date: 06/02/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 06/07/2012
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: CHEMWEST UPPER PONDS
Completed Document Type: Correspondence
Completed Date: 05/04/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 06/02/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 06/27/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 06/27/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Construction Complete
Completed Date: 06/27/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 03/23/1990
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: CHEMWEST UPPER PONDS
Completed Document Type: Corrective Measures Study Workplan
Completed Date: 11/30/1990
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: CHEMWEST UPPER PONDS
Completed Document Type: RFI Workplan
Completed Date: 05/31/1990
Comments: Not reported

CHEMWEST INDUSTRIES (Continued) **S103442717**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 02/14/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 09/01/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/24/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 06/07/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 11/19/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 11/19/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 07/08/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 07/08/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measure Implementation Workplan
Completed Date: 02/13/2009
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported

CHEMWEST INDUSTRIES (Continued) **S103442717**

Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Name: CHEMWEST INDUSTRIES
Address: 13425 SAN BERNARDINO AVENUE
City,State,Zip: FONTANA, CA 92335
Facility ID: 36280139
Status: Refer: RCRA
Status Date: 05/01/1995
Site Code: 600088
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: 52
Senate: 20
Special Program: * RCRA 3012 - Past Haz Waste Disp Inven Site
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.07694
Longitude: -117.515
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * Metals - Sludge * CONTAMINATED SOIL * ALKALINE SOLUTION 2<PH<12.5, WITH METALS
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD040520975
Alias Type: EPA Identification Number
Alias Name: 110000621195
Alias Type: EPA (FRS #)
Alias Name: 600088
Alias Type: Project Code (Site Code)
Alias Name: 36280139
Alias Type: Envirostor ID Number
Alias Name: 36330009
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/14/1983
Comments: Facility identified: San Bernardino Planning Map -- Metal pickling waste ponds on site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

CHEMWEST INDUSTRIES (Continued) **S103442717**

Completed Document Type: Site Screening
Completed Date: 05/01/1995
Comments: Site is owned by Kaiser Resources, Inc. and was leased to Chemwest Indutries. Site consists of an upper facility and a lower facility. The upper facility is being remediated under a consent order signed 8/88. The lower facility is being addressed by an approved closure plan. Chemwest has filed for bankruptcy. Kaiser is conducting the remediation efforts. NFA for Site Mitigation Operations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/26/1991
Comments: Screening site inspection done by EPA's FIT team E&E recommending NFA by EPA. This site is part of the KAISER STEEL CORPORATION-FONTANA site which is being remediated under a consent order signed in August 1988.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CPS-SLIC:
Name: CHEMWEST
Address: 13425 SAN BERNARDINO AVENUE
City,State,Zip: FONTANA, CA
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 04/26/2099
Global Id: SLT8R1204127
Lead Agency: SANTA ANA RWQCB (REGION 8)
Lead Agency Case Number: Not reported
Latitude: 34.077558
Longitude: -117.432655
Case Type: Cleanup Program Site
Case Worker: KDP
Local Agency: Not reported
RB Case Number: SLT8R120
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

WMUDS/SWAT:
Edit Date: Not reported
Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without

CHEMWEST INDUSTRIES (Continued) **S103442717**

	treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.
Primary Waste:	PROCES
Primary Waste Type:	Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards.
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Private
Agency Name:	KAISER STEEL RESOURCES
Agency Department:	Not reported
Agency Address:	P.O. BOX 2249
Agency City,St,Zip:	RANCHO CUCAMONGA ,CA 917292249
Agency Contact:	M ATKINSON
Agency Telephone:	Not reported
Land Owner Name:	Not reported
Land Owner Address:	Not reported
Land Owner City,St,Zip:	Not reported
Land Owner Contact:	Not reported
Land Owner Phone:	Not reported
Region:	8
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Description:	Not reported
Facility Telephone:	9098291689
SWAT Facility Name:	Not reported
Primary SIC:	2819
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	True
Solid Waste Assessment Test Program:	False
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	True
Department of Defence:	False
Solid Waste Assessment Test Program:	Not reported
Threat to Water Quality:	Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.
Sub Chapter 15:	True
Regional Board Project Officer:	RDB
Number of WMUDS at Facility:	1

CHEMWEST INDUSTRIES (Continued) **S103442717**

Section Range: Not reported
RCRA Facility: Yes
Waste Discharge Requirements: H
Self-Monitoring Rept. Frequency: Monthly Submittal
Waste Discharge System ID: 8 361482001
Solid Waste Information ID: Not reported

HIST UST:
Name: CHEMWEST INDUSTRIES INC
Address: 13425 SAN BERNARDINO AVENUE
City,State,Zip: FONTANA, CA 92335
File Number: 00029B7A
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029B7A.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

DEED:
Name: CHEMWEST INDUSTRIES INC
Address: 13425 SAN BERNARDINO AVE
City,State,Zip: FONTANA, CA 923350000
Envirostor ID: 80001364
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: CORRECTIVE ACTION
Status: CERTIFIED / OPERATION & MAINTENANCE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

LDS:
Name: FERRIC CHLORIDE MFG,FONTANA
Address: 13425 SAN BERNARDINO
City,State,Zip: FONTANA, CA 92335

Global Id: L10008850054
Latitude: 34.07721

CHEMWEST INDUSTRIES (Continued) **S103442717**

Longitude:	-117.5113
Case Type:	Land Disposal Site
Status:	Completed - Case Closed
Status Date:	11/04/2009
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Caseworker:	KDP
Local Agency:	Not reported
RB Case Number:	8 361482001
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Not reported
EDR Link ID:	L10008850054
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

ENF:

Name:	FERRIC CHLORIDE MFG,FONTANA
Address:	13425 SAN BERNARDINO
City,State,Zip:	FONTANA, CA 92335
Region:	8
Facility Id:	224367
Agency Name:	Not reported
Place Type:	Manufacturing
Place Subtype:	Manufacturing NEC
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	34.077198
Place Longitude:	-117.51487
SIC Code 1:	2819
SIC Desc 1:	Industrial Inorganic Chemicals, NEC
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	LNDISP

CHEMWEST INDUSTRIES (Continued) **S103442717**

# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	222424
Region:	8
Order / Resolution Number:	83-109
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	06/06/1983
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 8 361482001
Description:	DETERMINE EXTENT OF PLUME AND CLEANUP.
Program:	LNDISP
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

HIST CORTESE:

edr_fname:	CHEMWEST INDUSTRIES
edr_fadd1:	13425 SAN BERNARDINO
City,State,Zip:	FONTANA, CA 92335
Region:	CORTESE

CHEMWEST INDUSTRIES (Continued) **S103442717**

Facility County Code: 36
Reg By: CALSI
Reg Id: 36280139

CIWQS:
Name: FERRIC CHLORIDE MFG,FONTANA
Address: 13425 SAN BERNARDINO
City,State,Zip: FONTANA, CA 92335
Agency: Kaiser Steel Resources
Agency Address: Po Box 2249, Rancho Cucamonga, CA 91729-2249
Place/Project Type: Manufacturing NEC
SIC/NAICS: 2819
Region: 8
Program: LNDISP
Regulatory Measure Status: Historical
Regulatory Measure Type: WDR
Order Number: 93-01001
WDID: 8 361482001
NPDES Number: Not reported
Adoption Date: 1/29/1993
Effective Date: 01/29/1993
Termination Date: Not reported
Expiration/Review Date: Not reported
Design Flow: 0.0001
Major/Minor: Not reported
Complexity: B
TTWQ: 1
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 34.077198
Longitude: -117.51487

CERS:
Name: CHEMWEST INDUSTRIES INC
Address: 13425 SAN BERNARDINO AVE
City,State,Zip: FONTANA, CA 923350000
Site ID: 198152
CERS ID: CAD040520975
CERS Description: Hazardous Waste

Affiliation:
Affiliation Type Desc: Facility Contact
Entity Name: UNDELIVERABLE 93 FEE FORM
Entity Title: Not reported
Affiliation Address: 50 CALIFORNIA ST #2925
Affiliation City: SAN FRANCISCO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 941110000
Affiliation Phone: 4154218745

Affiliation Type Desc: Facility Owner
Entity Name: CHEMWEST INDUSTRIES, INC.
Entity Title: Not reported
Affiliation Address: --
Affiliation City: --
Affiliation State: 99

CHEMWEST INDUSTRIES (Continued) **S103442717**

Affiliation Country: Not reported
Affiliation Zip: --
Affiliation Phone: 0000000000

Name: CHEMWEST INDUSTRIES
Address: 13425 SAN BERNARDINO AVE
City,State,Zip: FONTANA, CA 923350000
Site ID: 336004
CERS ID: 80001364
CERS Description: Corrective Action

Affiliation:
Affiliation Type Desc: Lead Project Manager
Entity Name: PETER BAILEY
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: SACRAMENTO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Supervisor
Entity Name: Edward Nieto
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: FERRIC CHLORIDE MFG,FONTANA
Address: 13425 SAN BERNARDINO
City,State,Zip: FONTANA, CA 92335
Site ID: 206992
CERS ID: 224367
CERS Description: Land Disposal

Enforcement Action:
Site ID: 206992
Site Name: FERRIC CHLORIDE MFG,FONTANA
Site Address: 13425 SAN BERNARDINO
Site City: FONTANA
Site Zip: 92335
Enf Action Date: 06-06-1983
Enf Action Type: Clean-up and Abatement Order
Enf Action Description: Clean-up and Abatement Order
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: UNSPEC
Enf Action Source: CIWQS

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: KEITH PERSON - SANTA ANA RWQCB (REGION 8)

CHEMWEST INDUSTRIES (Continued) **S103442717**

Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: FERRIC CHLORIDE MFG,FONTANA
Address: 13425 SAN BERNARDINO
City,State,Zip: FONTANA, CA 92335
Site ID: 206992
CERS ID: L10008850054
CERS Description: Land Disposal Site

Enforcement Action:
Site ID: 206992
Site Name: FERRIC CHLORIDE MFG,FONTANA
Site Address: 13425 SAN BERNARDINO
Site City: FONTANA
Site Zip: 92335
Enf Action Date: 06-06-1983
Enf Action Type: Clean-up and Abatement Order
Enf Action Description: Clean-up and Abatement Order
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: UNSPEC
Enf Action Source: CIWQS

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: KEITH PERSON - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Q83
SE
1/2-1
0.924 mi.
4879 ft.

Relative:
Lower

Actual:
1053 ft.

CHEMWEST IND INC
13425 SAN BERNARDINO AVE
FONTANA, CA 92335

Site 2 of 3 in cluster Q

Database(s):
SEMS-ARCHIVE
CORRACTS
RCRA-TSDF
RCRA-SQG
US INST CONTROLS
CPS-SLIC
SWEEPS UST
HIST UST
CA FID UST
US FIN ASSUR
2020 COR ACTION
FINDS
ECHO
HWP
CERS

EDR ID Number: 1000303724
EPA ID Number: CAD040520975

SEMS Archive:

Site ID:	0901320
EPA ID:	CAD040520975
Name:	CHEMWEST IND
Address:	13425 SAN BERNARDINO AVE
Address 2:	Not reported
City,State,Zip:	FONTANA, CA 92335
Cong District:	36
FIPS Code:	06071
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	09
Site ID:	0901320
EPA ID:	CAD040520975
Site Name:	CHEMWEST IND
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1990-03-23 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	09
Site ID:	0901320
EPA ID:	CAD040520975
Site Name:	CHEMWEST IND
NPL:	N
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	Not reported
Finish Date:	1990-03-23 05:00:00
Qual:	N
Current Action Lead:	EPA Perf

CHEMWEST IND INC (Continued) **1000303724**

Region:	09
Site ID:	0901320
EPA ID:	CAD040520975
Site Name:	CHEMWEST IND
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1985-03-01 06:00:00
Finish Date:	1985-07-01 05:00:00
Qual:	L
Current Action Lead:	St Perf

Region:	09
Site ID:	0901320
EPA ID:	CAD040520975
Site Name:	CHEMWEST IND
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1985-03-01 06:00:00
Finish Date:	1985-03-01 06:00:00
Qual:	Not reported
Current Action Lead:	St Perf

CORRACTS:

Region:	09
Name:	CHEMWEST IND INC
Address:	13425 SAN BERNARDINO AVE
Address 2:	Not reported
City,State,Zip:	FONTANA, CA 92335
EPA ID:	CAD040520975
Area Name:	ENTIRE FACILITY
Corrective Action:	CA050
Actual Date:	1990-02-14 00:00:00.0
NAICS Code 1:	325188
NAICS Code 2:	Not reported
NAICS Code 3:	Not reported
NAICS Code 4:	Not reported

Region:	09
Name:	CHEMWEST IND INC
Address:	13425 SAN BERNARDINO AVE
Address 2:	Not reported
City,State,Zip:	FONTANA, CA 92335
EPA ID:	CAD040520975
Area Name:	ENTIRE FACILITY
Corrective Action:	CA070YE
Actual Date:	1990-02-14 00:00:00.0
NAICS Code 1:	325188
NAICS Code 2:	Not reported

CHEMWEST IND INC (Continued) **1000303724**

NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: CHEMWEST IND INC
Address: 13425 SAN BERNARDINO AVE
Address 2: Not reported
City,State,Zip: FONTANA, CA 92335
EPA ID: CAD040520975
Area Name: CHEMWEST UPPER PONDS
Corrective Action: CA150
Actual Date: 1990-05-31 00:00:00.0
NAICS Code 1: 325188
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: CHEMWEST IND INC
Address: 13425 SAN BERNARDINO AVE
Address 2: Not reported
City,State,Zip: FONTANA, CA 92335
EPA ID: CAD040520975
Area Name: CHEMWEST UPPER PONDS
Corrective Action: CA300
Actual Date: 1990-11-30 00:00:00.0
NAICS Code 1: 325188
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: CHEMWEST IND INC
Address: 13425 SAN BERNARDINO AVE
Address 2: Not reported
City,State,Zip: FONTANA, CA 92335
EPA ID: CAD040520975
Area Name: ENTIRE FACILITY
Corrective Action: CA225NR
Actual Date: 1994-05-19 00:00:00.0
NAICS Code 1: 325188
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: CHEMWEST IND INC
Address: 13425 SAN BERNARDINO AVE
Address 2: Not reported
City,State,Zip: FONTANA, CA 92335
EPA ID: CAD040520975
Area Name: ENTIRE FACILITY
Corrective Action: CA725IN
Actual Date: 1998-06-02 00:00:00.0
NAICS Code 1: 325188
NAICS Code 2: Not reported
NAICS Code 3: Not reported

CHEMWEST IND INC (Continued) **1000303724**

NAICS Code 4:	Not reported
Region:	09
Name:	CHEMWEST IND INC
Address:	13425 SAN BERNARDINO AVE
Address 2:	Not reported
City,State,Zip:	FONTANA, CA 92335
EPA ID:	CAD040520975
Area Name:	ENTIRE FACILITY
Corrective Action:	CA750IN
Actual Date:	1998-06-02 00:00:00.0
NAICS Code 1:	325188
NAICS Code 2:	Not reported
NAICS Code 3:	Not reported
NAICS Code 4:	Not reported
Region:	09
Name:	CHEMWEST IND INC
Address:	13425 SAN BERNARDINO AVE
Address 2:	Not reported
City,State,Zip:	FONTANA, CA 92335
EPA ID:	CAD040520975
Area Name:	ENTIRE FACILITY
Corrective Action:	CA380
Actual Date:	2008-11-19 00:00:00.0
NAICS Code 1:	325188
NAICS Code 2:	Not reported
NAICS Code 3:	Not reported
NAICS Code 4:	Not reported
Region:	09
Name:	CHEMWEST IND INC
Address:	13425 SAN BERNARDINO AVE
Address 2:	Not reported
City,State,Zip:	FONTANA, CA 92335
EPA ID:	CAD040520975
Area Name:	ENTIRE FACILITY
Corrective Action:	CA772PR
Actual Date:	2010-12-13 00:00:00.0
NAICS Code 1:	325188
NAICS Code 2:	Not reported
NAICS Code 3:	Not reported
NAICS Code 4:	Not reported
Region:	09
Name:	CHEMWEST IND INC
Address:	13425 SAN BERNARDINO AVE
Address 2:	Not reported
City,State,Zip:	FONTANA, CA 92335
EPA ID:	CAD040520975
Area Name:	ENTIRE FACILITY
Corrective Action:	CA500
Actual Date:	2009-02-13 00:00:00.0
NAICS Code 1:	325188
NAICS Code 2:	Not reported
NAICS Code 3:	Not reported
NAICS Code 4:	Not reported

CHEMWEST IND INC (Continued) **1000303724**

Region:	09
Name:	CHEMWEST IND INC
Address:	13425 SAN BERNARDINO AVE
Address 2:	Not reported
City,State,Zip:	FONTANA, CA 92335
EPA ID:	CAD040520975
Area Name:	ENTIRE FACILITY
Corrective Action:	CA725YE
Actual Date:	2013-06-27 00:00:00.0
NAICS Code 1:	325188
NAICS Code 2:	Not reported
NAICS Code 3:	Not reported
NAICS Code 4:	Not reported

Click this hyperlink while viewing on your computer to access
3 additional CORRACTS: record(s) in the EDR Site Report.

RCRA-TSDF:

Date form received by agency:	1996-09-01 00:00:00.0
Facility name:	CHEMWEST IND INC
Facility address:	13425 SAN BERNARDINO AVE FONTANA, CA 92335
EPA ID:	CAD040520975
Mailing address:	50 CALIFORNIA ST 2925 SAN FRANCISCO, CA 94111
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	TSDF
Description:	Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:

Owner/operator name:	CHEMWEST INDUSTRIES INC
Owner/operator address:	50 CALIFORNIA ST 2925 SAN FRANCISCO, CA 94111
Owner/operator country:	Not reported
Owner/operator telephone:	415-421-8745
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	CHEMWEST INDUSTRIES INC
Owner/operator address:	50 CALIFORNIA ST 2925 CITY NOT REPORTED, CA 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-421-8745

CHEMWEST IND INC (Continued) **1000303724**

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 1990-03-12 00:00:00.0
Site name: CHEMWEST INDUSTRIES INC.
Classification: Not a generator, verified

Date form received by agency: 1980-08-06 00:00:00.0
Site name: CHEMWEST IND INC
Classification: Not a generator, verified

Corrective Action Summary:
Event date: 1987-12-05 00:00:00.0
Event: INVESTIGATION IMPOSITION

Event date: 1987-12-05 00:00:00.0
Event: CMS IMPOSITION

Event date: 1990-02-14 00:00:00.0
Event: RFA COMPLETED

Event date: 1990-02-14 00:00:00.0
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Event date: 1990-02-14 00:00:00.0
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

Event date: 1990-02-14 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1990-02-14 00:00:00.0
Event: NCAPS RANKING/PRIORITY

CHEMWEST IND INC (Continued) **1000303724**

Event date: 1990-02-14 00:00:00.0
Event: LEAD AGENCY DETERMINATION

Event date: 1990-03-23 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1990-05-31 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 1990-11-30 00:00:00.0
Event: CMS WORKPLAN APPROVED

Event date: 1994-05-19 00:00:00.0
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 1994-05-19 00:00:00.0
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 1994-05-19 00:00:00.0
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 1996-01-04 00:00:00.0
Event: LEAD AGENCY DETERMINATION

Event date: 1998-06-02 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 1998-06-02 00:00:00.0
Event: REFERRED TO A NON-RCRA AUTHORITY

Event date: 1998-06-02 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 1998-06-02 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 1998-06-02 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 2008-11-19 00:00:00.0
Event: DATE FOR PUBLIC NOTICE ON PROPOSED REMEDY

Event date: 2009-02-13 00:00:00.0
Event: CMI WORKPLAN APPROVED

Event date: 2010-12-13 00:00:00.0
Event: INSTITUTIONAL CONTROLS ESTABLISHED-PROPRIETARY CONTROL

Event date: 2013-06-27 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 2013-06-27 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

CHEMWEST IND INC (Continued) **1000303724**

Event date: 2013-06-27 00:00:00.0
Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: Not reported
Event: REEVALUATE IN FY

Facility Has Received Notices of Violations:
Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 1990-11-13 00:00:00.0
Date achieved compliance: 1990-12-19 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-12-13 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1990-10-05 00:00:00.0
Date achieved compliance: 1993-10-25 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-02-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1990-05-04 00:00:00.0
Enf. disposition status: Not reported

CHEMWEST IND INC (Continued) **1000303724**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-02-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-02-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-02-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-02-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

CHEMWEST IND INC (Continued) **1000303724**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1990-05-04 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1990-05-04 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1990-05-04 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1990-05-04 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

CHEMWEST IND INC (Continued) **1000303724**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1989-04-18 00:00:00.0
Date achieved compliance: 1993-10-25 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1987-10-19 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 1989-04-14 00:00:00.0
Date achieved compliance: 1990-01-09 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-06-28 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 1989-04-14 00:00:00.0
Date achieved compliance: 1990-01-09 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-06-28 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1989-04-14 00:00:00.0
Date achieved compliance: 1990-01-09 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-06-28 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

CHEMWEST IND INC (Continued) **1000303724**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 1988-05-25 00:00:00.0
Date achieved compliance: 1988-08-02 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-06-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 1988-05-25 00:00:00.0
Date achieved compliance: 1988-08-02 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-06-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1988-05-19 00:00:00.0
Date achieved compliance: 1991-08-14 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1987-10-19 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1988-05-19 00:00:00.0
Date achieved compliance: 1991-08-14 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-05-19 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

CHEMWEST IND INC (Continued) **1000303724**

Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1988-05-19 00:00:00.0
Date achieved compliance: 1991-08-14 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1987-10-17 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 1987-08-25 00:00:00.0
Date achieved compliance: 1991-06-24 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1987-10-19 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1987-03-27 00:00:00.0
Date achieved compliance: 1991-08-14 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1987-10-19 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1987-03-17 00:00:00.0
Date achieved compliance: 1991-08-14 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1987-10-19 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

CHEMWEST IND INC (Continued) **1000303724**

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1986-12-04 00:00:00.0
Date achieved compliance: 1991-06-24 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1987-10-19 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1986-12-04 00:00:00.0
Date achieved compliance: 1991-06-24 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1986-10-21 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 1990-11-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-12-19 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1990-10-05 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1993-10-25 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1990-01-09 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1990-08-17 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1990-01-09 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-08-17 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1990-01-09 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 1990-08-17 00:00:00.0

CHEMWEST IND INC (Continued) **1000303724**

Evaluation lead agency: State

Evaluation date: 1990-01-09 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 1990-08-17 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-04-18 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1993-10-25 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-04-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 1990-01-09 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-04-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-01-09 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-05-25 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1988-08-02 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-05-19 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1991-08-14 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1987-08-25 00:00:00.0
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 1991-06-24 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1987-03-27 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1991-08-14 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1987-03-17 00:00:00.0
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 1991-08-14 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1987-03-17 00:00:00.0

CHEMWEST IND INC (Continued) **1000303724**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1986-12-04 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1991-06-24 00:00:00.0
Evaluation lead agency: State

RCRA-SQG:
Date form received by agency: 1996-09-01 00:00:00.0
Facility name: CHEMWEST IND INC
Facility address: 13425 SAN BERNARDINO AVE
FONTANA, CA 92335
EPA ID: CAD040520975
Mailing address: 50 CALIFORNIA ST 2925
SAN FRANCISCO, CA 94111
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:
Owner/operator name: CHEMWEST INDUSTRIES INC
Owner/operator address: 50 CALIFORNIA ST 2925
SAN FRANCISCO, CA 94111
Owner/operator country: Not reported
Owner/operator telephone: 415-421-8745
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: CHEMWEST INDUSTRIES INC
Owner/operator address: 50 CALIFORNIA ST 2925
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-421-8745
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

CHEMWEST IND INC (Continued) **1000303724**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 1990-03-12 00:00:00.0
Site name: CHEMWEST INDUSTRIES INC.
Classification: Not a generator, verified

Date form received by agency: 1980-08-06 00:00:00.0
Site name: CHEMWEST IND INC
Classification: Not a generator, verified

Corrective Action Summary:
Event date: 1987-12-05 00:00:00.0
Event: INVESTIGATION IMPOSITION

Event date: 1987-12-05 00:00:00.0
Event: CMS IMPOSITION

Event date: 1990-02-14 00:00:00.0
Event: RFA COMPLETED

Event date: 1990-02-14 00:00:00.0
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Event date: 1990-02-14 00:00:00.0
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

Event date: 1990-02-14 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1990-02-14 00:00:00.0
Event: NCAPS RANKING/PRIORITY

Event date: 1990-02-14 00:00:00.0
Event: LEAD AGENCY DETERMINATION

Event date: 1990-03-23 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1990-05-31 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

CHEMWEST IND INC (Continued) **1000303724**

Event date: 1990-11-30 00:00:00.0
Event: CMS WORKPLAN APPROVED

Event date: 1994-05-19 00:00:00.0
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 1994-05-19 00:00:00.0
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 1994-05-19 00:00:00.0
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 1996-01-04 00:00:00.0
Event: LEAD AGENCY DETERMINATION

Event date: 1998-06-02 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 1998-06-02 00:00:00.0
Event: REFERRED TO A NON-RCRA AUTHORITY

Event date: 1998-06-02 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 1998-06-02 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 1998-06-02 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 2008-11-19 00:00:00.0
Event: DATE FOR PUBLIC NOTICE ON PROPOSED REMEDY

Event date: 2009-02-13 00:00:00.0
Event: CMI WORKPLAN APPROVED

Event date: 2010-12-13 00:00:00.0
Event: INSTITUTIONAL CONTROLS ESTABLISHED-PROPRIETARY CONTROL

Event date: 2013-06-27 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 2013-06-27 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 2013-06-27 00:00:00.0
Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: Not reported
Event: REEVALUATE IN FY

Facility Has Received Notices of Violations:
Regulation violated: F - 270
Area of violation: TSD - General

CHEMWEST IND INC (Continued) **1000303724**

Date violation determined: 1990-11-13 00:00:00.0
Date achieved compliance: 1990-12-19 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-12-13 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1990-10-05 00:00:00.0
Date achieved compliance: 1993-10-25 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-02-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1990-05-04 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1990-01-09 00:00:00.0

CHEMWEST IND INC (Continued) **1000303724**

Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-02-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-02-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-02-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-02-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0

CHEMWEST IND INC (Continued) **1000303724**

Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1990-05-04 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1990-05-04 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1990-05-04 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1990-01-09 00:00:00.0
Date achieved compliance: 1990-08-17 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1990-05-04 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1989-04-18 00:00:00.0
Date achieved compliance: 1993-10-25 00:00:00.0
Violation lead agency: State

CHEMWEST IND INC (Continued) **1000303724**

Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1987-10-19 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 1989-04-14 00:00:00.0
Date achieved compliance: 1990-01-09 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-06-28 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 1989-04-14 00:00:00.0
Date achieved compliance: 1990-01-09 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-06-28 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1989-04-14 00:00:00.0
Date achieved compliance: 1990-01-09 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-06-28 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 1988-05-25 00:00:00.0
Date achieved compliance: 1988-08-02 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL

CHEMWEST IND INC (Continued) **1000303724**

Enforcement action date: 1988-06-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 1988-05-25 00:00:00.0
Date achieved compliance: 1988-08-02 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-06-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1988-05-19 00:00:00.0
Date achieved compliance: 1991-08-14 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1987-10-19 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1988-05-19 00:00:00.0
Date achieved compliance: 1991-08-14 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1988-05-19 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1988-05-19 00:00:00.0
Date achieved compliance: 1991-08-14 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1987-10-17 00:00:00.0

CHEMWEST IND INC (Continued) **1000303724**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 1987-08-25 00:00:00.0
Date achieved compliance: 1991-06-24 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1987-10-19 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1987-03-27 00:00:00.0
Date achieved compliance: 1991-08-14 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1987-10-19 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1987-03-17 00:00:00.0
Date achieved compliance: 1991-08-14 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1987-10-19 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1986-12-04 00:00:00.0
Date achieved compliance: 1991-06-24 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 1987-10-19 00:00:00.0
Enf. disposition status: Not reported

CHEMWEST IND INC (Continued) **1000303724**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 1986-12-04 00:00:00.0
Date achieved compliance: 1991-06-24 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1986-10-21 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 1990-11-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-12-19 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1990-10-05 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1993-10-25 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1990-01-09 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1990-08-17 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1990-01-09 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-08-17 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1990-01-09 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 1990-08-17 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1990-01-09 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 1990-08-17 00:00:00.0
Evaluation lead agency: State

CHEMWEST IND INC (Continued) **1000303724**

Evaluation date: 1989-04-18 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1993-10-25 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-04-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 1990-01-09 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-04-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-01-09 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-05-25 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1988-08-02 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-05-19 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1991-08-14 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1987-08-25 00:00:00.0
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 1991-06-24 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1987-03-27 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1991-08-14 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1987-03-17 00:00:00.0
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 1991-08-14 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1987-03-17 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1986-12-04 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements

CHEMWEST IND INC (Continued) **1000303724**

Date achieved compliance: 1991-06-24 00:00:00.0
Evaluation lead agency: State

US INST CONTROLS:
Name: CHEMWEST IND INC
Address: 13425 SAN BERNARDINO AVE
Address 2: Not reported
City,State,Zip: FONTANA, CA 92335
EPA ID: CAD040520975
Site ID: Not reported
Action Name: Not reported
Action ID: Not reported
Operable Unit: Not reported
Action Completion Date: Not reported
Actual Date: Not reported
Contaminated Media: Not reported
Event Code: CA772PR
Contact Name: Not reported
Contact Telephone: Not reported
Event: INSTITUTIONAL CONTROLS ESTABLISHED-PROPRIETARY CONTROL

SLIC REG 8:
Name: CHEMWEST
Address: 13425 SAN BERNARDINO AVENUE
City: FONTANA
Type: Soil
Facility Status: 6
Staff: Dixie Lass, Tel 909-782-3295, LAND DISPOSAL
Substance: METALS
Lead Agency: Department of Toxic Substance Control
Location Code: Not reported
Thomas Bros Code: Not reported

SWEEPS UST:
Name: CHEMWEST INDUSTRIES, INC.
Address: 13425 SAN BERNARDINO AVE
City: FONTANA
Status: Active
Comp Number: 12689
Number: 9
Board Of Equalization: 44-020410
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-012689-000001
Tank Status: A
Capacity: 10000
Active Date: 03-21-89
Tank Use: UNKNOWN
STG: P
Content: DIESEL
Number Of Tanks: 10

Name: CHEMWEST INDUSTRIES, INC.
Address: 13425 SAN BERNARDINO AVE
City: FONTANA

CHEMWEST IND INC (Continued) **1000303724**

Status: Active
Comp Number: 12689
Number: 9
Board Of Equalization: 44-020410
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-012689-000002
Tank Status: A
Capacity: 10000
Active Date: 03-21-89
Tank Use: UNKNOWN
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

Name: CHEMWEST INDUSTRIES, INC.
Address: 13425 SAN BERNARDINO AVE
City: FONTANA
Status: Active
Comp Number: 12689
Number: 9
Board Of Equalization: 44-020410
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-012689-000003
Tank Status: A
Capacity: 10000
Active Date: 03-21-89
Tank Use: UNKNOWN
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

Name: CHEMWEST INDUSTRIES, INC.
Address: 13425 SAN BERNARDINO AVE
City: FONTANA
Status: Active
Comp Number: 12689
Number: 9
Board Of Equalization: 44-020410
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-012689-000004
Tank Status: A
Capacity: 10000
Active Date: 03-21-89
Tank Use: UNKNOWN
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

CHEMWEST IND INC (Continued) **1000303724**

Name:	CHEMWEST INDUSTRIES, INC.
Address:	13425 SAN BERNARDINO AVE
City:	FONTANA
Status:	Active
Comp Number:	12689
Number:	9
Board Of Equalization:	44-020410
Referral Date:	03-24-92
Action Date:	03-24-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-012689-000005
Tank Status:	A
Capacity:	10000
Active Date:	03-21-89
Tank Use:	UNKNOWN
STG:	P
Content:	UNKNOWN
Number Of Tanks:	Not reported

Name:	CHEMWEST INDUSTRIES, INC.
Address:	13425 SAN BERNARDINO AVE
City:	FONTANA
Status:	Active
Comp Number:	12689
Number:	9
Board Of Equalization:	44-020410
Referral Date:	03-24-92
Action Date:	03-24-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-012689-000006
Tank Status:	A
Capacity:	10000
Active Date:	03-21-89
Tank Use:	UNKNOWN
STG:	P
Content:	UNKNOWN
Number Of Tanks:	Not reported

Name:	CHEMWEST INDUSTRIES, INC.
Address:	13425 SAN BERNARDINO AVE
City:	FONTANA
Status:	Active
Comp Number:	12689
Number:	9
Board Of Equalization:	44-020410
Referral Date:	03-24-92
Action Date:	03-24-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-012689-000007
Tank Status:	A
Capacity:	10000
Active Date:	03-21-89
Tank Use:	UNKNOWN
STG:	P

CHEMWEST IND INC (Continued) **1000303724**

Content: UNKNOWN
Number Of Tanks: Not reported

Name: CHEMWEST INDUSTRIES, INC.
Address: 13425 SAN BERNARDINO AVE
City: FONTANA
Status: Active
Comp Number: 12689
Number: 9
Board Of Equalization: 44-020410
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-012689-000008
Tank Status: A
Capacity: 10000
Active Date: 03-21-89
Tank Use: UNKNOWN
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

Name: CHEMWEST INDUSTRIES, INC.
Address: 13425 SAN BERNARDINO AVE
City: FONTANA
Status: Active
Comp Number: 12689
Number: 9
Board Of Equalization: 44-020410
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-012689-000009
Tank Status: A
Capacity: 10000
Active Date: 03-21-89
Tank Use: UNKNOWN
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

Name: CHEMWEST INDUSTRIES, INC.
Address: 13425 SAN BERNARDINO AVE
City: FONTANA
Status: Active
Comp Number: 12689
Number: 9
Board Of Equalization: 44-020410
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-012689-000010
Tank Status: A
Capacity: 10000

CHEMWEST IND INC (Continued) **1000303724**

Active Date: 03-21-89
Tank Use: UNKNOWN
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

HIST UST:
Name: CHEMWEST INDUSTRIES, INC.
Address: 13425 SAN BERNARDINO AVE
City,State,Zip: FONTANA, CA 92335
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000012689
Facility Type: Other
Other Type: CHEMICAL MFG.
Contact Name: T. PAPCIAK
Telephone: 7148291689
Owner Name: CHEMWEST INDUSTRIES, INC.
Owner Address: 50 CALIFORNIA STREET, SUITE 29
Owner City,St,Zip: SAN FRANCISCO, CA 94111
Total Tanks: 0001

Tank Num: 001
Container Num: UT-1
Year Installed: 1979
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 1/2
Leak Detection: Stock Inventor

CA FID UST:
Facility ID: 36003649
Regulated By: UTNKA
Regulated ID: 00012689
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 13425 SAN BERNARDINO AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: FONTANA 92335
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

US FIN ASSUR:
Name: CHEMWEST IND INC
Address: 13425 SAN BERNARDINO AVE
City,State,Zip: FONTANA, CA 92335
EPA ID: CAD040520975

CHEMWEST IND INC (Continued) **1000303724**

County: Not reported
Mechanism type: T
Mechanism Type Description: TRUST FUND (FULLY FUNDED)
Cost estimate: 7033.85
Face value: 7033.85
Effective date: 1983-07-07 00:00:00
Provider: ZION TRUST
EPA region: 9

2020 COR ACTION:
EPA ID: CAD040520975
Region: 9
Action: Remedy Construction

FINDS:
Registry ID: 110000621195

Click Here:

Environmental Interest/Information System:
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000303724
Registry ID: 110000621195
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110000621195
Name: CHEMWEST IND INC
Address: 13425 SAN BERNARDINO AVE
City,State,Zip: FONTANA, CA 92335

HWP:
Name: CHEMWEST INDUSTRIES INC
Address: 13425 SAN BERNARDINO AVE
City,State,Zip: FONTANA, CA 923350000
EPA Id: CAD040520975
Cleanup Status: UNDERGOING CLOSURE
Latitude: 34.07709
Longitude: -117.5179
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: 600088, TBD
Assembly District: 52

CHEMWEST IND INC (Continued) **1000303724**

Senate District: 20
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: New Operating Permit - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date: 09/04/1987

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 03/28/1991

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 04/01/1985

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: New Operating Permit - APPLICATION PART A RECEIVED
Actual Date: 09/25/1980

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST RECEIVED
Actual Date: 04/26/1988

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 06/21/1984

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: New Operating Permit - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 02/20/1987

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: New Operating Permit - ADMINISTRATIVE REVIEW APPROVED
Actual Date: 03/30/1981

Closure:

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: TANKSTR1, TANKTRT1

CHEMWEST IND INC (Continued) **1000303724**

Event Description: Closure - CLOSURE PLAN RECEIVED
Actual Date: 04/26/1988

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: TANKSTR1, TANKTRT1
Event Description: Closure - PUBLIC COMMENT (PUBLIC HEARING)
Actual Date: 08/02/1998

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: TANKSTR1, TANKTRT1
Event Description: Closure - PUBLIC COMMENT (BEGIN)
Actual Date: 07/01/1988

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: Closure - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date: 11/29/1990

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: Closure - ISSUE CLOSURE VERIFICATION
Actual Date: 08/21/1996

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR2
Event Description: Closure - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 09/04/1987

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: Referred for closure to other agency - REFERRED FOR CLOSURE TO OTHER AGENCY
Actual Date: 03/19/2019

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: TANKSTR1, TANKTRT1
Event Description: Closure - ISSUE CLOSURE VERIFICATION
Actual Date: 09/18/2009

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR2
Event Description: Closure - PUBLIC COMMENT (END)
Actual Date: 07/31/1988

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR2
Event Description: Closure - CLOSURE PLAN RECEIVED
Actual Date: 02/22/1987

CHEMWEST IND INC (Continued) **1000303724**

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR2
Event Description: Closure - ISSUE CLOSURE VERIFICATION
Actual Date: 09/18/2009

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: Closure - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 09/27/1990

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR2
Event Description: Closure - PUBLIC COMMENT (BEGIN)
Actual Date: 07/01/1988

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR2
Event Description: Closure - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 04/26/1988

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: Closure - PUBLIC COMMENT (PUBLIC HEARING)
Actual Date: 01/31/1991

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: TANKSTR1, TANKTRT1
Event Description: Closure - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 05/05/1990

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: Closure - CLOSURE PLAN APPROVED
Actual Date: 03/28/1991

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: Closure - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 11/01/1990

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR2
Event Description: Closure - PUBLIC COMMENT (PUBLIC HEARING)
Actual Date: 08/02/1988

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1

CHEMWEST IND INC (Continued) **1000303724**

Event Description: Referred for closure to other agency - REFERRED FOR CLOSURE TO OTHER AGENCY
Actual Date: 08/11/2000

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: Closure - CLOSURE PLAN RECEIVED
Actual Date: 07/01/1990

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR2
Event Description: Closure - CLOSURE PLAN APPROVED
Actual Date: 03/28/1991

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: Closure - RECEIVE CLOSURE CERTIFICATION
Actual Date: 06/04/1996

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: TANKSTR1, TANKTRT1
Event Description: Closure - PUBLIC COMMENT (END)
Actual Date: 07/31/1988

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Unit Names: SURFIMP1, TANKSTR1, TANKSTR2, TANKTRT1
Event Description: Closure - RESPONSE TO 2ND NOD RECEIVED
Actual Date: 12/14/1990

Alias:
EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Alias Type: FRS
Alias: 110000621195

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Alias Type: Envirostor ID Number
Alias: 36280139

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Alias Type: Project Code (Site Code)
Alias: 600088

EPA Id: CAD040520975
Facility Type: Historical - Non-Operating
Alias Type: Project Code (Site Code)
Alias: TBD

CERS:

CHEMWEST IND INC (Continued) **1000303724**

Name: CHEMWEST
Address: 13425 SAN BERNARDINO AVENUE
City,State,Zip: FONTANA, CA
Site ID: 209329
CERS ID: SLT8R1204127
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: KEITH PERSON - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Q84 **CHEMWEST INDUSTRIES** **Toxic Pits** **S100925145**
SE **13425 SAN BERNARDINO AVENUE** **N/A**
1/2-1 **FONTANA, CA 92335**
0.924 mi.
4879 ft. **Site 3 of 3 in cluster Q**

Relative: **Lower**
Actual: **1053 ft.**

TOXIC PITS:
Region: 08
Task #: 88001
Owner: CHEMWEST INDUSTRIES
1/2 Mi Limit: Y
Num. of Pits: 5
Cease Discharge Due: 06/30/88
Cease Discharge Complete: 03/20/89
Closure Due: 06/30/90
Closure Completed: 06/28/90
Status: CLOSED
Hydro Geological Assessment Report Due: / /
Final Hydro Geological Assessment Review Completed: 03/22/89

Count: 2 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FONTANA	S126214253	ETIWANDA AVENUE	ETIWANDA AVENUE	91764	NPDES
RANCHO CUCAMONGA	S107538462		ETIWANDA ST		CDL

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 09/03/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 09/03/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 09/03/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/02/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/03/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/03/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/15/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 06/18/2020
Number of Days to Update: 30

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/04/2020
Next Scheduled EDR Contact: 11/23/2020
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/24/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/24/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/22/2020
Date Data Arrived at EDR: 03/24/2020
Date Made Active in Reports: 06/18/2020
Number of Days to Update: 86

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 04/28/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/27/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 04/28/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/27/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/11/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/10/2020
Next Scheduled EDR Contact: 11/23/2020
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/26/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 78

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/29/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/15/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 02/01/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/06/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/20/2020
Number of Days to Update: 72
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 05/26/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/20/2020
Number of Days to Update: 72

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/26/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 78

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/03/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/23/2020
Next Scheduled EDR Contact: 11/01/2020
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/29/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 04/28/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/27/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/17/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 06/22/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/04/2020
Number of Days to Update: 74

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/01/2020
Date Data Arrived at EDR: 06/02/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/29/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 75

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/04/2020
Next Scheduled EDR Contact: 11/23/2020
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/31/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/19/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 04/28/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/27/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2019
Date Data Arrived at EDR: 05/28/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/20/2020
Date Data Arrived at EDR: 04/21/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 83

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/19/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 05/20/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/06/2020
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/17/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 05/04/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 72

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/20/2020
Date Data Arrived at EDR: 04/21/2020
Date Made Active in Reports: 07/09/2020
Number of Days to Update: 79

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/29/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 75

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 09/03/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/01/2020
Date Data Arrived at EDR: 06/02/2020
Date Made Active in Reports: 08/14/2020
Number of Days to Update: 73

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 08/31/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 02/27/2020
Date Data Arrived at EDR: 03/24/2020
Date Made Active in Reports: 06/18/2020
Number of Days to Update: 86

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/23/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 03/31/2020
Date Data Arrived at EDR: 04/21/2020
Date Made Active in Reports: 07/09/2020
Number of Days to Update: 79

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/18/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 86

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/13/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/06/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/05/2020
Next Scheduled EDR Contact: 11/23/2020
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/24/2020
Date Made Active in Reports: 06/18/2020
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/31/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/06/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/17/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 79

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/14/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 03/01/2020
Date Data Arrived at EDR: 04/21/2020
Date Made Active in Reports: 07/15/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/03/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 01/31/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 08/03/2020
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/15/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 34

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 09/03/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/09/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 70

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/13/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 10/25/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 82

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/20/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 42
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/04/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 08/31/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/06/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/24/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/27/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2020
Date Data Arrived at EDR: 07/15/2020
Date Made Active in Reports: 07/21/2020
Number of Days to Update: 6

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/06/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/07/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/21/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 09/03/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/28/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 77

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 08/26/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/01/2020
Date Data Arrived at EDR: 05/21/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/28/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/28/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/05/2020
Date Data Arrived at EDR: 03/06/2020
Date Made Active in Reports: 05/29/2020
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/01/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/03/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 86

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 08/26/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/19/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/04/2020
Date Data Arrived at EDR: 04/07/2020
Date Made Active in Reports: 06/26/2020
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/02/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/18/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 08/03/2020
Number of Days to Update: 76

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/17/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/22/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/04/2020
Number of Days to Update: 74

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 05/04/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 72

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 08/14/2020
Next Scheduled EDR Contact: 11/23/2020
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/29/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 75

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 08/19/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 09/04/2020
Number of Days to Update: 14

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/17/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/04/2020
Date Data Arrived at EDR: 06/05/2020
Date Made Active in Reports: 08/17/2020
Number of Days to Update: 73

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 08/24/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/16/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/03/2020
Date Data Arrived at EDR: 04/07/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 8

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 04/09/2020
Date Data Arrived at EDR: 04/10/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/14/2020
Date Data Arrived at EDR: 05/15/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 73

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/04/2020
Next Scheduled EDR Contact: 11/23/2020
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/06/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/18/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 73

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/17/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/18/2020
Date Data Arrived at EDR: 05/18/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 74

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/17/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/08/2020
Date Made Active in Reports: 06/26/2020
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/07/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 06/02/2020
Date Made Active in Reports: 08/14/2020
Number of Days to Update: 73
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 08/31/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 05/12/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/28/2020
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/10/2020
Next Scheduled EDR Contact: 11/23/2020
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 06/01/2020
Date Data Arrived at EDR: 06/02/2020
Date Made Active in Reports: 08/14/2020
Number of Days to Update: 73
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 08/31/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 08/21/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 08/27/2020
Number of Days to Update: 6
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 08/20/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 06/06/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/20/2020
Number of Days to Update: 72
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 62
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/17/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/20/2020
Number of Days to Update: 72

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 06/01/2020
Date Data Arrived at EDR: 06/02/2020
Date Made Active in Reports: 08/14/2020
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 08/31/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/20/2020
Date Data Arrived at EDR: 04/21/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 83

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/28/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 07/01/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/08/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Semi-Annually

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 04/09/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 08/02/2020
Next Scheduled EDR Contact: 10/18/2020
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 06/30/2020
Date Data Arrived at EDR: 07/01/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 16

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 05/18/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 06/01/2020
Number of Days to Update: 13

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 06/17/2020
Date Data Arrived at EDR: 06/18/2020
Date Made Active in Reports: 09/02/2020
Number of Days to Update: 76

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/17/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 04/01/2020
Date Data Arrived at EDR: 04/20/2020
Date Made Active in Reports: 07/06/2020
Number of Days to Update: 77

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 04/16/2020
Date Data Arrived at EDR: 04/20/2020
Date Made Active in Reports: 07/08/2020
Number of Days to Update: 79

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 08/13/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/07/2020
Date Data Arrived at EDR: 05/07/2020
Date Made Active in Reports: 07/23/2020
Number of Days to Update: 77

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 08/13/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/10/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 76

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/19/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 26

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/09/2020
Date Data Arrived at EDR: 04/10/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 04/29/2020
Date Data Arrived at EDR: 05/05/2020
Date Made Active in Reports: 08/26/2020
Number of Days to Update: 113

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 04/29/2020
Date Data Arrived at EDR: 05/05/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 73

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/11/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/21/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/20/2020
Date Data Arrived at EDR: 04/28/2020
Date Made Active in Reports: 07/14/2020
Number of Days to Update: 77

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/08/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 01/31/2020
Date Made Active in Reports: 04/09/2020
Number of Days to Update: 69

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/26/2020
Date Data Arrived at EDR: 03/26/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 81

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/13/2020
Date Data Arrived at EDR: 04/14/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 78

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/13/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/08/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42
Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/25/2020
Date Data Arrived at EDR: 04/14/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 78
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/17/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/08/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/27/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 64

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/24/2020
Date Data Arrived at EDR: 02/25/2020
Date Made Active in Reports: 05/07/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/04/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/24/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/28/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 1

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 05/15/2020
Date Data Arrived at EDR: 06/02/2020
Date Made Active in Reports: 08/14/2020
Number of Days to Update: 73

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/19/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/13/2020
Date Data Arrived at EDR: 07/15/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 16

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 07/08/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/19/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/19/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/07/2020
Date Made Active in Reports: 07/24/2020
Number of Days to Update: 78

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2020
Date Data Arrived at EDR: 05/08/2020
Date Made Active in Reports: 07/24/2020
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/31/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2020
Date Data Arrived at EDR: 05/08/2020
Date Made Active in Reports: 07/24/2020
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/31/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/01/2020
Date Data Arrived at EDR: 05/05/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 73

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/03/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/10/2020
Date Made Active in Reports: 08/24/2020
Number of Days to Update: 75

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 03/10/2020
Date Data Arrived at EDR: 03/11/2020
Date Made Active in Reports: 05/20/2020
Number of Days to Update: 70

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 03/10/2020
Date Data Arrived at EDR: 03/11/2020
Date Made Active in Reports: 05/20/2020
Number of Days to Update: 70
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 76
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/02/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/24/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/17/2020
Number of Days to Update: 78
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/02/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/24/2020
Date Data Arrived at EDR: 04/28/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 76
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 02/25/2020
Date Data Arrived at EDR: 02/26/2020
Date Made Active in Reports: 05/07/2020
Number of Days to Update: 71
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 06/01/2020
Date Data Arrived at EDR: 06/02/2020
Date Made Active in Reports: 08/14/2020
Number of Days to Update: 73

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 08/31/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 04/09/2020
Date Data Arrived at EDR: 04/10/2020
Date Made Active in Reports: 06/26/2020
Number of Days to Update: 77

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/04/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 72

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/08/2020
Date Data Arrived at EDR: 05/08/2020
Date Made Active in Reports: 08/03/2020
Number of Days to Update: 87

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/12/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/01/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 05/08/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/19/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 04/22/2020
Date Data Arrived at EDR: 04/24/2020
Date Made Active in Reports: 05/07/2020
Number of Days to Update: 13

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/02/2020
Date Data Arrived at EDR: 03/04/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 71

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 02/25/2020
Date Data Arrived at EDR: 02/26/2020
Date Made Active in Reports: 03/11/2020
Number of Days to Update: 14

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/03/2020
Date Data Arrived at EDR: 04/08/2020
Date Made Active in Reports: 06/26/2020
Number of Days to Update: 79

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/17/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/04/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 70

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/06/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 05/26/2020
Date Data Arrived at EDR: 05/28/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 77

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 05/18/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 73

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 04/09/2020
Date Data Arrived at EDR: 04/10/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 05/14/2020
Date Data Arrived at EDR: 05/15/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 73

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 08/06/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/26/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/09/2020
Number of Days to Update: 77

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/20/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/24/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/04/2020
Next Scheduled EDR Contact: 11/23/2020
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/26/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/09/2020
Number of Days to Update: 77

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/20/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/26/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/20/2020
Number of Days to Update: 72

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 04/01/2020
Date Made Active in Reports: 06/17/2020
Number of Days to Update: 77

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/24/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 79

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 08/04/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/12/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/10/2020
Next Scheduled EDR Contact: 11/23/2020
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/31/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/02/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

8996 ETIWANDA AVENUE
8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA 91739

TARGET PROPERTY COORDINATES

Latitude (North):	34.09114 - 34° 5' 28.10''
Longitude (West):	117.527679 - 117° 31' 39.64''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	451320.8
UTM Y (Meters):	3772192.5
Elevation:	1123 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5620426 GUASTI, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

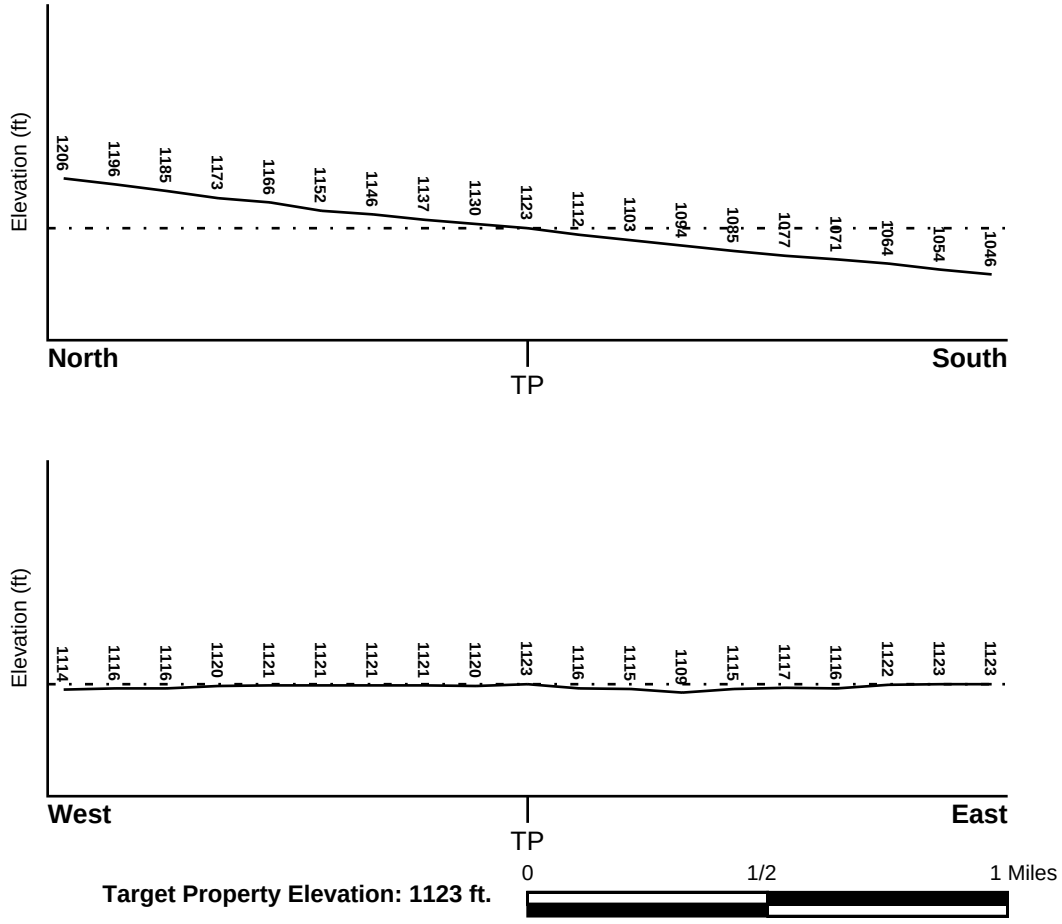
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06071C8634J	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06071C8635J	FEMA FIRM Flood data
06071C8633H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
GUASTI	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

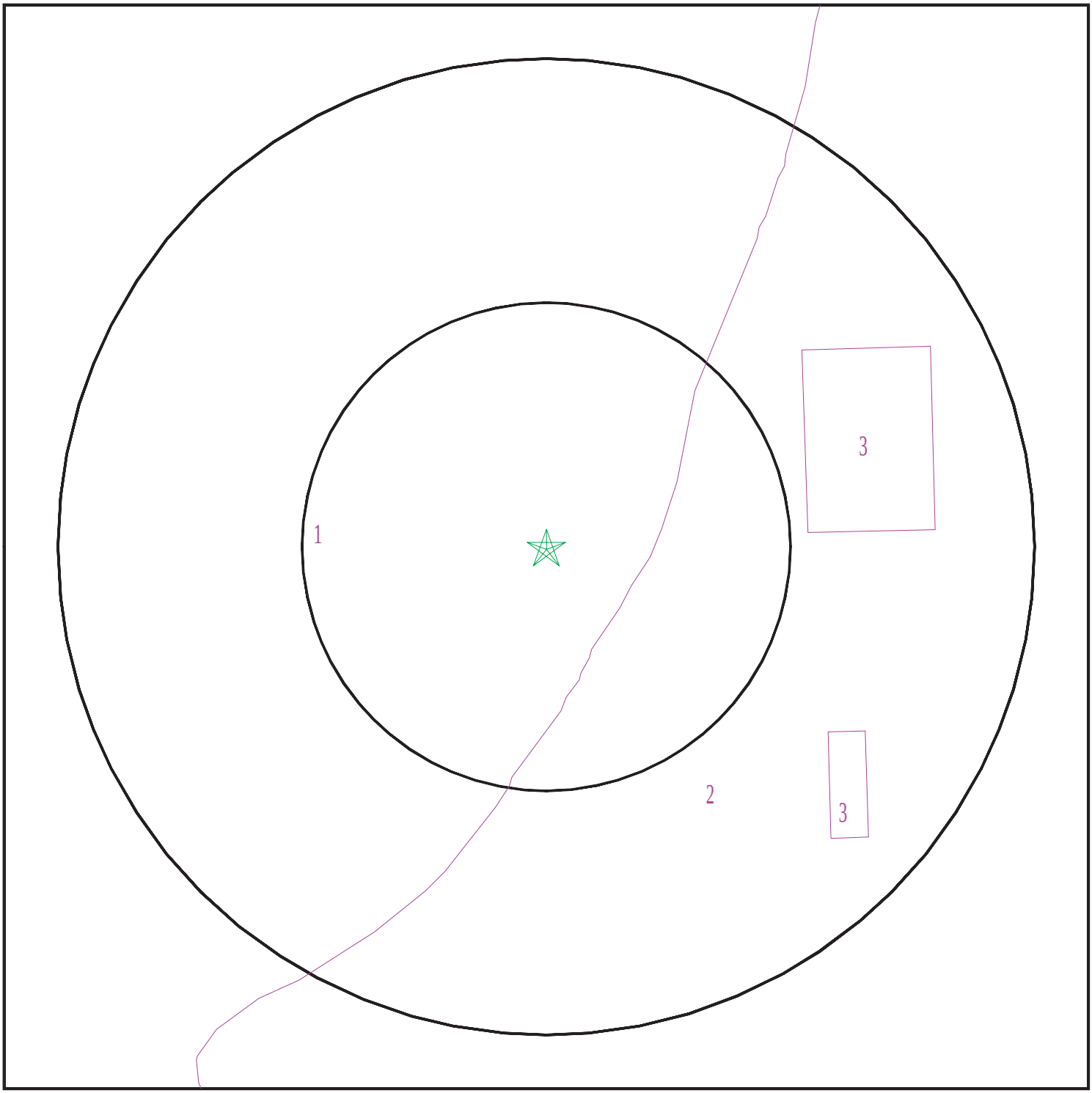
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 6184297.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	8996 Etiwanda Avenue	CLIENT:	Path Forward Partners
ADDRESS:	8996 Etiwanda Avenue Rancho Cucamonga CA 91739	CONTACT:	Karen Smith
		INQUIRY #:	6184297.2s
LAT/LONG:	34.09114 / 117.527679	DATE:	September 09, 2020 12:40 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1
2	18 inches	59 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1

Soil Map ID: 2

Soil Component Name: Hanford

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6
2	11 inches	59 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6

Soil Map ID: 3

Soil Component Name: Water

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

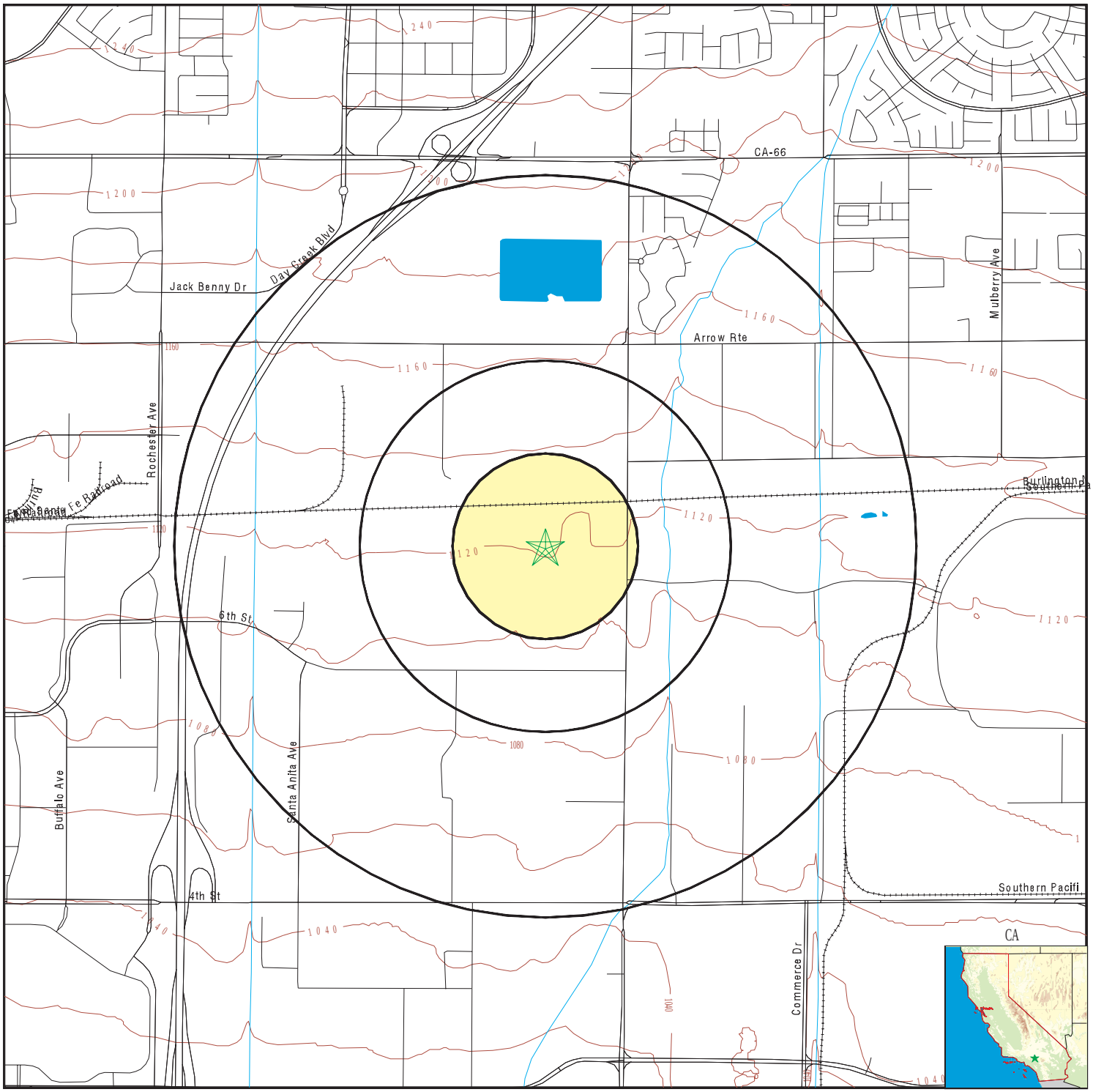
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 6184297.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	8996 Etiwanda Avenue	CLIENT:	Path Forward Partners
ADDRESS:	8996 Etiwanda Avenue Rancho Cucamonga CA 91739	CONTACT:	Karen Smith
		INQUIRY #:	6184297.2s
LAT/LONG:	34.09114 / 117.527679	DATE:	September 09, 2020 12:40 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91739	14	0

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 91739

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.900 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix L

Qualifications

PATH FORWARD
Environmental Engineering & Geology

RESUME

Mr. Grunat is a Partner and Principal Geologist at Path Forward Partners. He has over ten years of experience as a technical consultant in the fields of geology, hydrogeology, and contaminated site investigation and remediation. His work includes: project management; remediation of soil, groundwater, and soil vapor through traditional and innovative technologies; contaminant fate and transport; hydrogeology; regulatory negotiations; and litigation support.

PROFESSIONAL LICENSES

Professional Geologist in California, Washington, and Texas

Certified Hydrogeologist in California and Washington

EDUCATION

Master of Science in Environmental Geology, Rutgers – 2013

Bachelor of Science, Environmental Science, Indiana University – 2007

WORK HISTORY

2018-Present – Path Forward Partners (CA)

2016-2018 - RPS (CA)

2014-2016 – Roux Associates (CA)

2013-2014 – URS (CA)

2011-2012 – Fleming Lee Shue (NY)

2008-2011 – Conestoga Rovers and Associates (CA)

2007 – Indiana Geological Survey (IN)

DAVID A. GRUNAT, P.G., C.H.G.

Partner/Principal Geologist

RELEVANT EXPERIENCE

Brownfield Redevelopment

Managed a large mixed-use redevelopment project including investigating the liabilities associated with the property including significant chlorinated solvent impacts from surrounding superfund sites.

Managed a large commercial redevelopment project under a California Land Reuse and Revitalization Act (CLRRA) agreement utilizing innovative techniques to pre-characterize the extent of pesticides, metals, and petroleum hydrocarbons to allow for accurate excavation estimation saving both time and money during the planning and implementation of the response action.

After development of a high-rise residential multi-family building, conducted indoor air monitoring and water sampling to show through a variation in geochemical parameters that infiltrating water was a result of a leaking supply line and not contaminated groundwater infiltrating through an in-place vapor/moisture barrier.

Managed due diligence Phase I and Phase II environmental site assessments (ESAs) at numerous properties including evaluating properties for potential liability due to hazardous waste contamination; collection of soil, groundwater, and soil vapor samples; and preparing remedial cost estimates.

Petroleum

Project Manager of a portfolio of over 40 active and former service station cleanup sites for a Fortune 500 Oil Company.

Successfully negotiated the reduction of sampling and demonstrated further remediation of NAPL at a petroleum bulk terminal was not warranted although persistent NAPL was present in various monitoring wells.

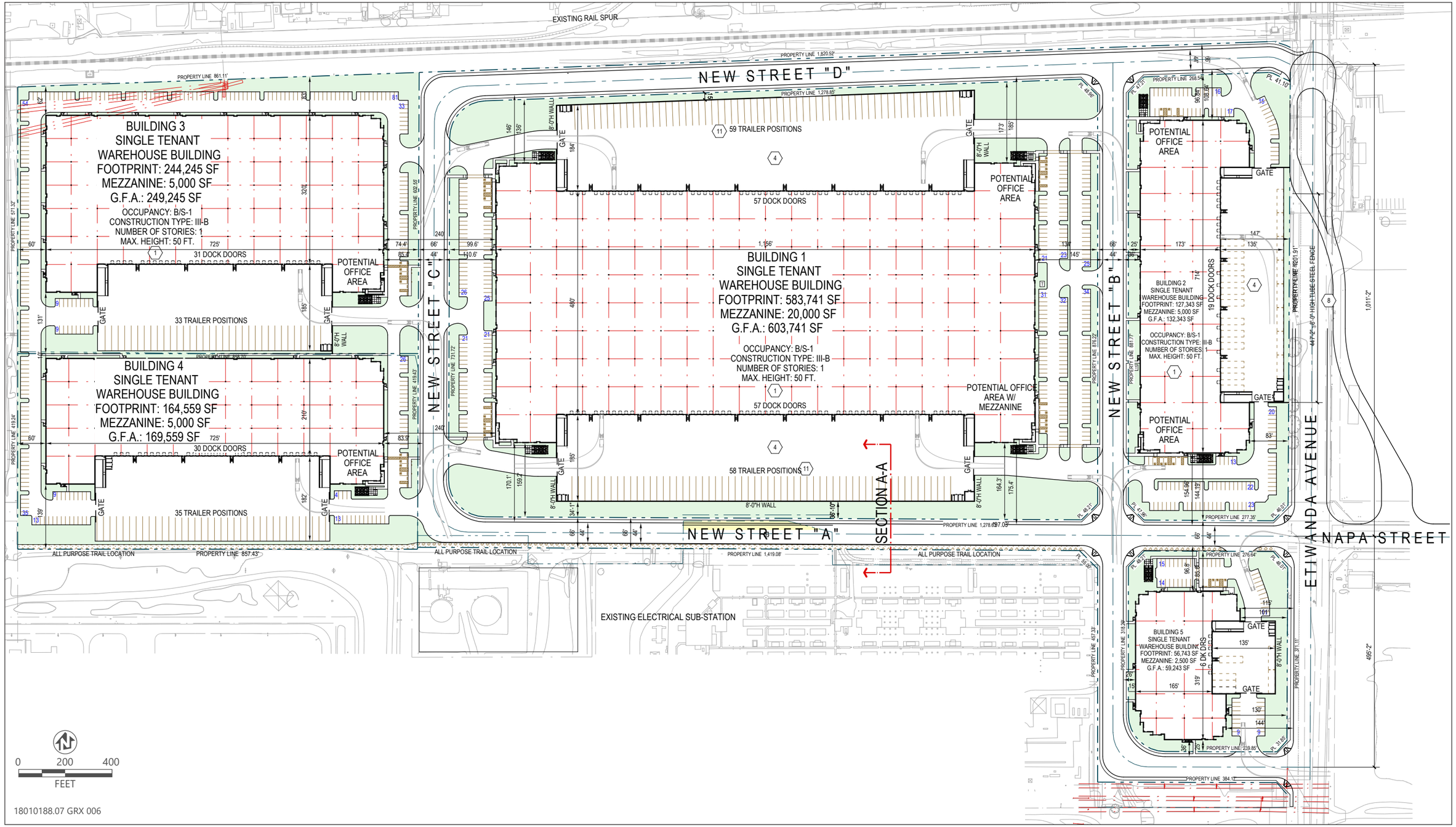
Acted as the lead technical expert to respond to inquiries from the Ministry of Environment of British Columbia during a hydrogeological study to assess the conditions on a tidal foreshore due to petroleum seeps from the upstream refinery activities.

Industrial

Completed a site re-evaluation after exceedances of elemental mercury above action levels were detected in monitoring wells including evaluating current and historical data to determine the pre-remediation and post-remediation mass in soil and groundwater. Successfully negotiated that site groundwater is not suitable for beneficial use regardless of site contamination.

PUBLICATIONS

"Complex electrical measurements on an undisturbed soil core: evidence for improved estimation of saturation state from imaginary conductivity" Vadose Zone Journal, Volume 12, Issue 4, November 1, 2013..



Source: Image produced and provided by RGA Architecture, Inc. in 2021, adapted by Ascent in 2023

10/23/2023

Project Site Plan

DRAFT

Proposed Project
Air Quality, GHG, Energy, and Noise data request

1. **Construction:**
   a) Provide phase names, start and end dates, and duration in the table below. Multiple phases of the same type could occur at different times and some phase types may not be used, depending on the construction needs.
      - See table below.

Phase	Estimated Start	Estimated End Date	Working Days
Demolition (remaining)	9/1/24	9/30/24	20
Grading	10/1/24	11/15/24	30
Construction	11/15/24	2/15/26	360

   b) Please provide construction equipment including:
      - Quantity/type of equipment used for each construction activity
      - Equipment engine size in horsepower (hp) (if available/applicable)
      - Hours of operation for each equipment type (hours/day or hours/construction phase)
      - Quantity of stationary generators and horsepower (hp)
      - Fuel use for construction equipment (diesel or non-diesel type [e.g., gasoline])
      - See table below.

Phase	Equipment Type	Fuel	Quantity	Hours of Use/Day	Engine Tier	Days of Use	HP
Demolition	Crawler Tractors	Diesel	2	4	Tier 4 Interim	120	100
Demolition	Crushing/Proc. Equipment	Diesel	1	4	Tier 4 Interim	10	475
Grading	Scrappers	Diesel	6	8	Tier 3	20	500
Grading	Bull Dozers	Diesel	2	8	Tier 3	20	325
Grading	Motor Graders	Diesel	2	8	Tier 3	10	185
Grading	Front End Loaders	Diesel	4	8	Tier 3	110	225
All Phases	Sweepers/Scrubbers	Diesel	1	3	Tier 3	120	50

Construction	Excavators	Diesel	4	8	Tier 3	150	175
Construction	Crane (Crawler)	Diesel	1		Tier 3	36	400
Construction	Rough Terrain Forklifts	Diesel	4	8	Tier 3	275	100
Construction	Concrete Boom Pump	Diesel	1	12	Tier 3	25	485

c) Provide tons of debris or total cubic yards of material imported and exported during demolition and building construction. For each phase with material import or export, please provide the number of truck trips.
   - See table below. Example shown in *italics*.

Phase	**Amount of Material**		**Unit (specify tons or cubic yards of debris)**	**Number of truck Trips**	
	Imported	**Exported**		**Import**	**Export**
Demolition	NA	8,000	tons	NA	450
Grading	Balanced	Balanced	CY	NA	NA

- Specify the average distance in miles between the project site and the construction material sources or material disposal, if available.
- Anticipated daily construction schedule (e.g., 7:00 am to 7:00 p.m. Monday-Friday) - Typical Construction Hours will be 7am – 5pm. See night time construction for concrete pours.
- Provide narrative description of construction phases/activity types, including anticipated overlap in activities.
  We plan to complete the Demolition of the site and move directly into the grading (earthwork) phase. This should last 6 weeks. Once we have the building pad certified we will move into the construction phase. The construction phase will last approximately 72 weeks. We estimate that there will be up to 150 persons onsite. The activities during the construction phase include excavation for foundations and utilities, concrete pours, carpentry, steel erection, and building finishes.
- If nighttime construction is proposed, provide description of activities and equipment type/number that would be used at night, including location on the site of these activities. – Concrete pours will start at 1 am.
- If pile driving would occur, provide the following: NA
  - Construction phases in which pile driving will occur and the start and end date for each phase
  - Frequency (per day) of piles to be driven
  - Type of pile driver (sonic or vibratory)

2. Operational Activities

a. Vehicles (No known tenants at this time – refer to traffic analysis or use industry standards)

i. Indicate how many office workers and warehouse workers would report to the facility on a daily basis.
ii. Indicate the typical schedule for loading and drive through
iii. Describe how trucks would enter and exit the project area
iv. Describe the daily schedule (e.g., x trips between 3am and 6am) for inbound and outbound trucks
v. Provide the average trip length of deliveries/round trip from the facility?
vi. Narrative description of on and onsite truck loading/unloading and travel activity
vii. Location of truck routes (on and offsite). Can be ESRI shapefile, GE KMZ, or graphic.
viii. Truck fleet mix, as a percentage of total truck trips (heavy= 3+axle, GVW > 26k lbs/medium=2+axle, GVW >9k)
ix. Time of day truck activity occurs, including peak trucks/hour and average trucks/day
x. Duration of typical load/unload operation, including locations on site plan

b. Equipment
   i. List any warehouse equipment to be used on-site, including but not limited to forklifts and yard trucks. For each piece, provide the fuel type (e.g., diesel, electric), daily hours per use. Use best practice and industry standard. City's requirements (anticipated to be electric)
   ii. Identify all types of external mechanical equipment (e.g., HVAC, heat pumps, exhaust, fans, generators). For all identified equipment, please provide the following: (No known tenants at this time – refer to traffic analysis or use industry standards)
      1. Location on site plan and building
      2. Size (e.g., HP, kwh)
      3. Anticipated daily and annual operating hours
      4. Manufacturer-included enclosure/louvre or other noise attenuating technology, with specifications, if available.
      5. Enclosed (full or partial) or not? If, enclosed, what type of enclosure (e.g., masonry/brick, wood, aluminum, within building)
      6. Manufacture specification sheet (if available)

c. Utility consumption
   i. Please estimate the following for the project:
      1. Electricity consumption (in kilowatt-hours per year). (No known tenants at this time – refer to traffic analysis or use industry standards)
      2. Natural gas consumption (in therms per year). (None anticipated)
      3. Water consumption (gallons or acre-feet per year), separated into indoor and outdoor consumption. (Refer to the Water Supply Assessment)

4. Identify any proposed stationary sources (e.g., electrical and combustion equipment, HVAC units, emergency generators, pumps), including anticipated size, capacity, and anticipated daily hours per use. (Tenant specific – refer to traffic analysis or use industry standards)
5. Area (acres) that will require landscape maintenance. (7.5 acres)

d. Design Features
   i. Please provide details regarding design features that will be incorporated into the project design. Examples include rooftop solar with battery storage, seeking LEED certification, electric truck and vehicle outputs, drought-tolerant landscaping, among others.
      - LEED certification will be procured for this project.
      - Solar to provide power for conditioned office space
      - 15% of the roof to be solar ready
      - EV chargers will be provided for the project
      - Conduits for EV truck charging to be provided at truck yards
      - LED lighting throughout
      - Low flow plumbing fixtures
      - Drought tolerant landscaping

CITY OF RANCHO CUCAMONGA

HAZARDOUS WASTE SITE STATEMENT

I have been informed by the City of Rancho Cucamonga of my responsibilities pursuant to California Government Code Section 65962.5 (http://leginfo.legislature.ca.gov/) to notify the City as to whether the site for which a development application has been submitted is located within an area which has been designated as the location of a hazardous waste site (attached) by the Office of Planning and Research, State of California (OPR).

I have also been informed by the City of Rancho Cucamonga that, as the date of executing this statement, OPR has not yet compiled and distributed a list of hazardous waste site as required by said Section 65962.5.

I am informed and believe that the proposed site for which a development application has been submitted is not within an area specified in said Section 65962.5 as a hazardous waste site.

I declare under penalty of perjury of the laws of the State of California that the foregoing is true and correct.

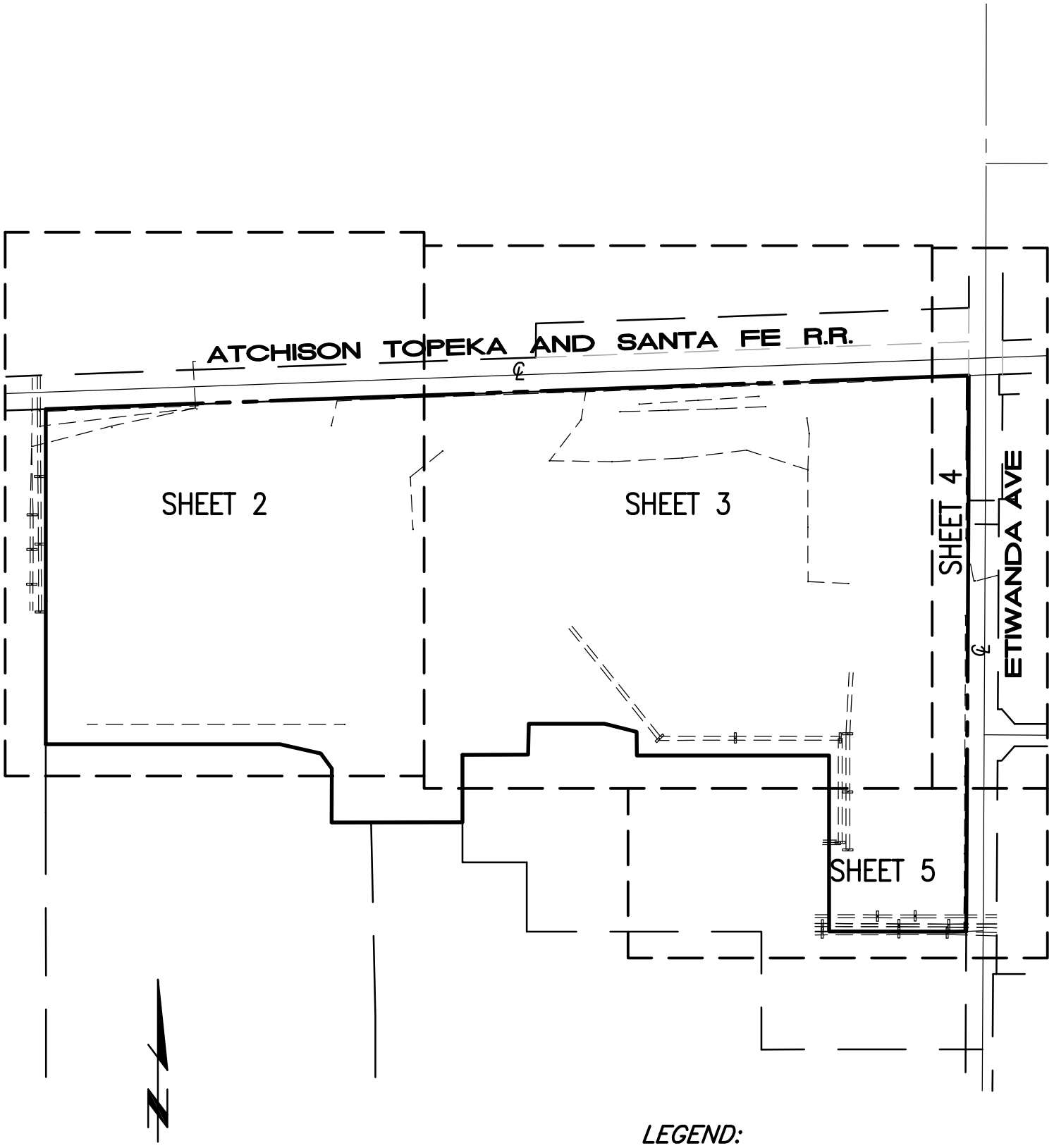
Applicant: _____

Date: 11/11/21

SCALE: N.T.S.

EXHIBIT "B"

LOCATION OF EXISTING OVERHEAD UTILITIES



LEGEND:

- ● POWER POLES/TELE POLES
- OVERHEAD POWER LINES
- ~~OVERHEAD TELE LINES~~

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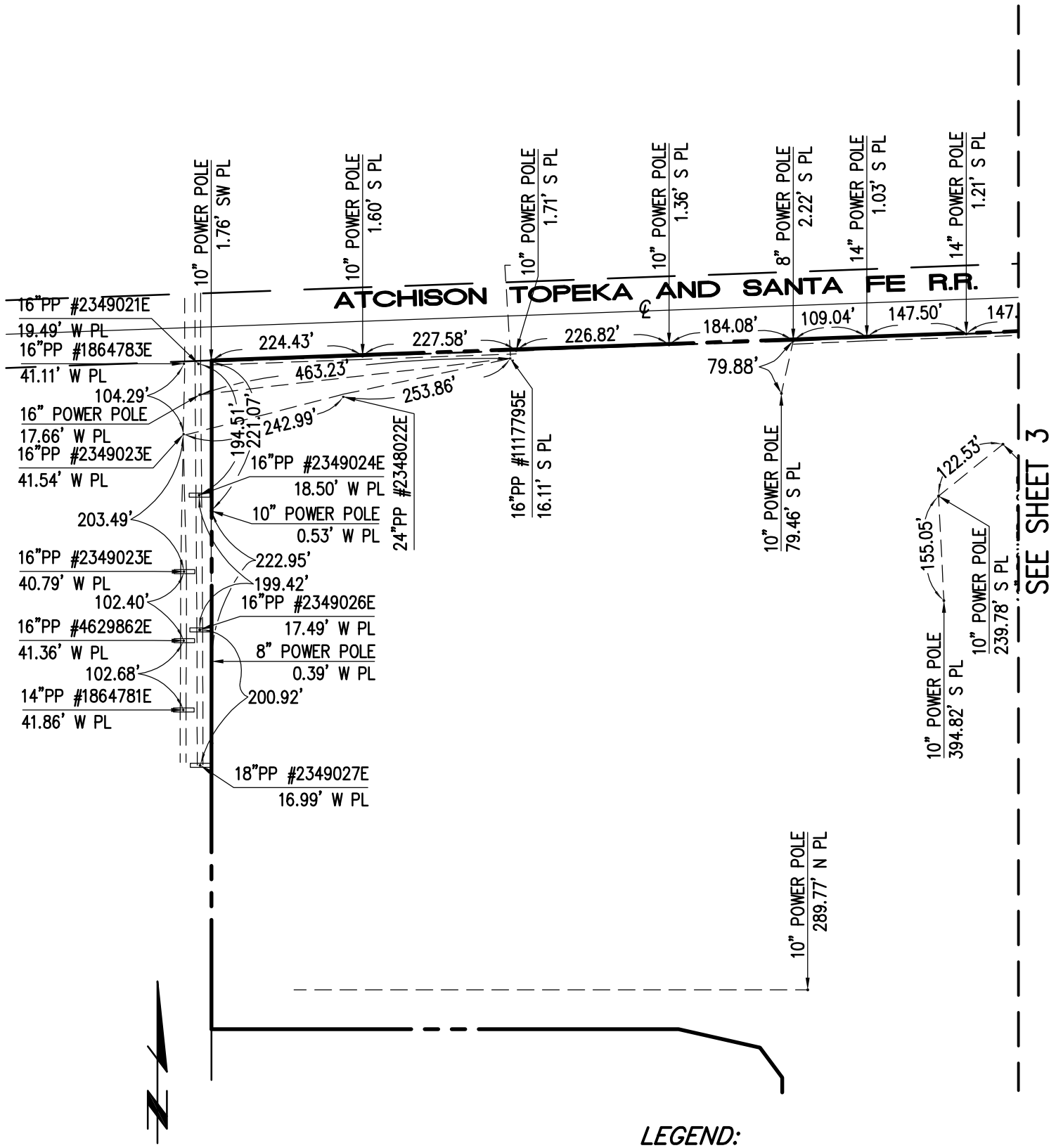
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SCALE: 1" = 200'

EXHIBIT "B"

LOCATION OF EXISTING OVERHEAD UTILITIES

SHEET 2 OF 5



LEGEND:

- POWER POLES/TELE POLES
- OVERHEAD POWER LINES
- OVERHEAD TELE LINES

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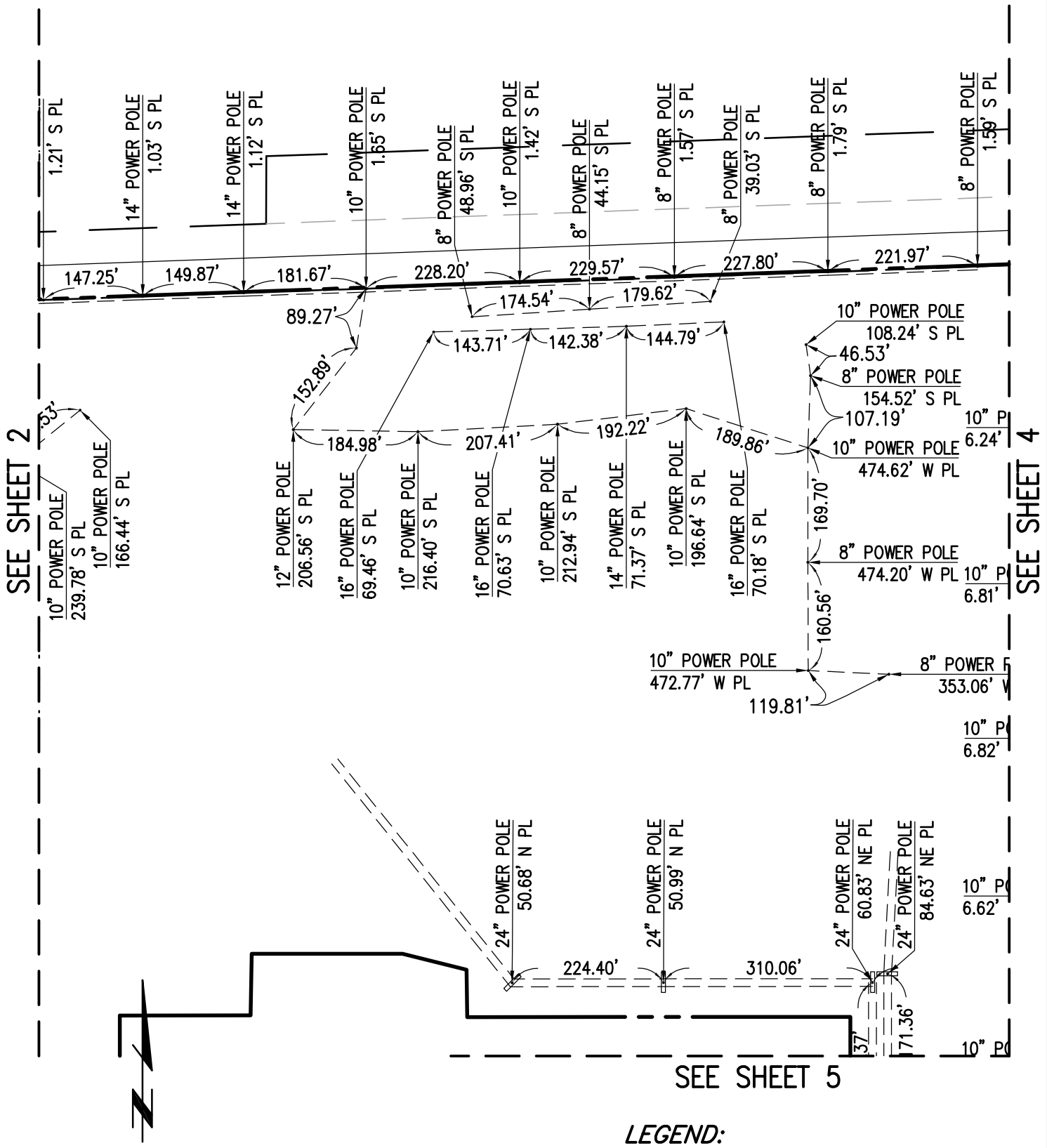
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SCALE: 1" = 200'

EXHIBIT "B"

LOCATION OF EXISTING OVERHEAD UTILITIES

SHEET 3 OF 5



LEGEND:

- POWER POLES/TELE POLES
- OVERHEAD POWER LINES
- OVERHEAD TELE LINES

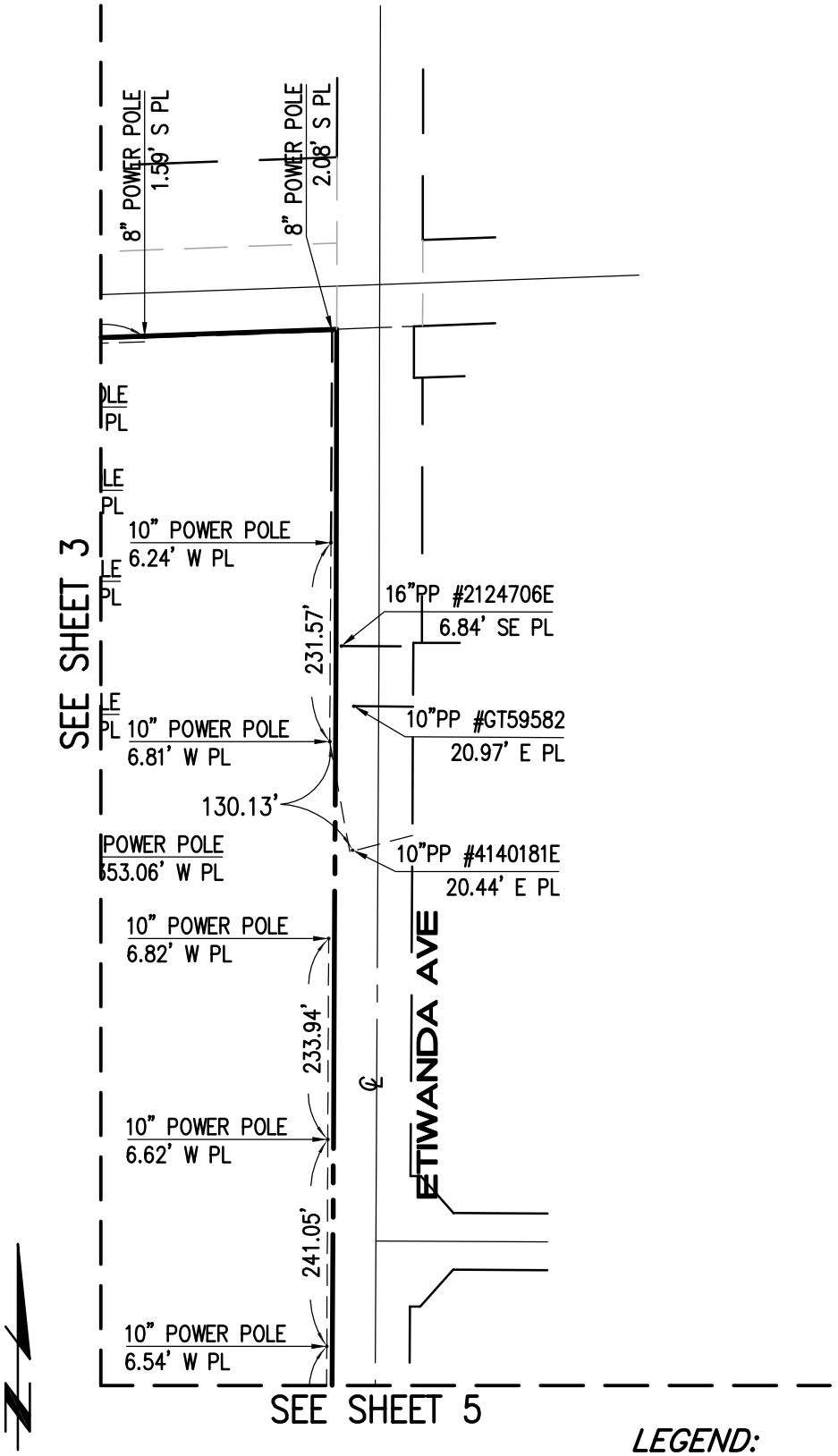
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SCALE: 1" = 200'

EXHIBIT "B"

LOCATION OF EXISTING OVERHEAD UTILITIES



LEGEND:

- POWER POLES/TELE POLES
- OVERHEAD POWER LINES
- OVERHEAD TELE LINES

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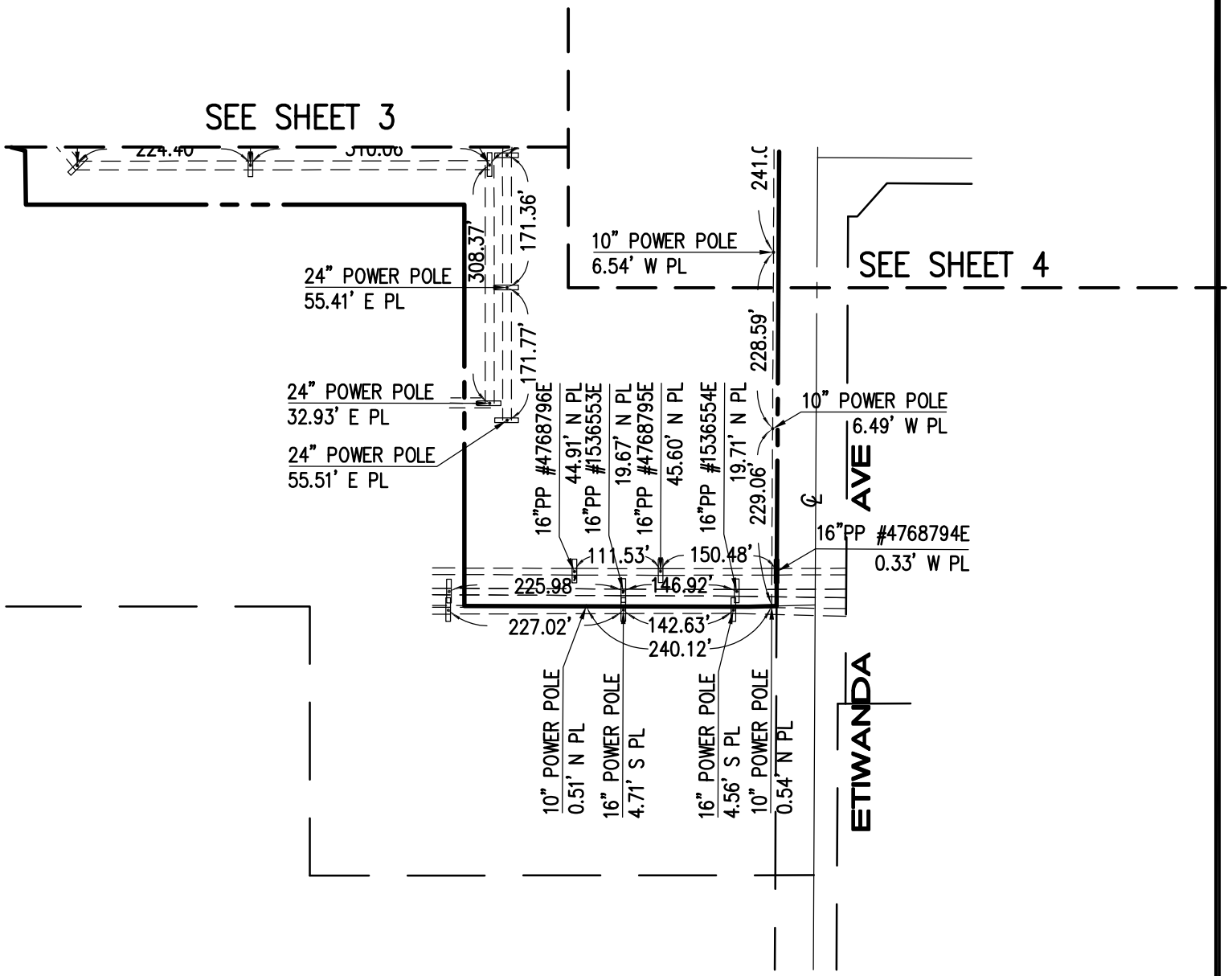
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SCALE: 1" = 200'

EXHIBIT "B"

LOCATION OF EXISTING OVERHEAD UTILITIES

SHEET 5 OF 5

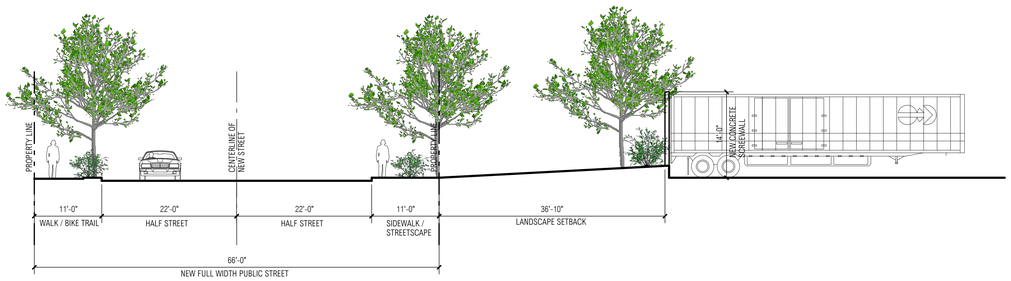


LEGEND:

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- OVERHEAD POWER LINES
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STREET SECTION A-A

SCALE: 1" = 10'-0"

SITE PLAN GENERAL NOTES:

1. TYPICAL 90 DEG. PARKING STALLS SIZES ARE 9'W X 18' LONG INCLUDING A 1' LANDSCAPE OVERHANG TYPICAL EXCEPT AT ACCESSIBLE STALLS.

2. PARALLEL STALLS ARE 9' X 24'.

3. SETBACK REQUIREMENTS:

BUILDING SETBACK:	
FRONT:	25 FEET FROM CURBFACE
INTERIOR SIDEYARD:	5 FEET
PARKING SETBACK:	15 FEET FROM CURBFACE

FIRE DEPT. GENERAL NOTES:

1. FIRE ACCESS LANES SHALL COMPLY WITH THE FOLLOWING:

MIN. WIDTH:	26 FEET
MIN. CLEARANCE:	14'-6"
INSIDE RADIUS:	20 FT.
OUTSIDE RADIUS:	46 FT.
WEIGHT CAPACITY:	80,000 LBS.

2. ALL GATES SHALL BE INSTALLED PER THE FIRE DISTRICT REQUIREMENTS.

3. SIGNAGE STANDARDS PER RANCHO CUCAMONGA FIRE PROTECTION DISTRICT DECEMBER 2016.

ASSESSOR'S NUMBERS:

APN: 0229-283-79

KEYNOTES: (00)

1. PROPOSED PAINTED CONCRETE TILT-UP 40' CLEAR INDUSTRIAL BUILDING.

2. TYPICAL PARKING STALL - 9' X 18'. MAY BE REDUCED TO 9' X 17' W/ 1'-0" OVERHANG. STRIPING PER CITY STANDARDS.

3. TYPICAL LOW EMITTING / FUEL EFFICIENT / CARPOOL / VANPOOL PARKING STALL - 9' X 18'. MAY BE REDUCED TO 9' X 17' W/ 1'-0" OVERHANG. STRIPING PER CITY STANDARDS. MINIMUM 8% OF ALL PARKING SPACES PROVIDED PER BUILDING. A MINIMUM OF 6% OF ALL PARKING SPACES PROVIDED PER BUILDING SHALL BE EQUIPPED FOR FUTURE EV CHARGING CAPACITY.

4. 7" THICK CONCRETE YARD W/ GRADE LEVEL TRUCK DOORS AND TRAILER PARKING AREAS.

5. FULLY IRRIGATED LANDSCAPE AREA BOUNDED BY 6" CONCRETE CURB - SEE CONCEPT LANDSCAPE PLAN.

6. PRIMARY BUILDING ENTRANCE W/ DECORATIVE CONCRETE ENTRY WALK.

7. LOCATION OF 8'-0" HIGH TRASH AND RECYCLABLE BINS. SEE SHEET A2-1 FOR ELEVATION AND SECTIONS.

8. NEW 8'-0" HIGH BLACK TUBE STEEL FENCE.

9. PROPERTY LINES.

10. PROPOSED TRANSFORMER LOCATION.

11. 14' X 50' TRUCK TRAILER PARKING AREA.

12. ACCESSIBLE PARKING STALLS 9' X 18'-0" MIN.

13. DASHED LINE INDICATES : NEW 5'-0" WIDE SURFACE WALK ACCESSIBLE PATH OF TRAVEL FROM PUBLIC SIDEWALK & PARKING STALLS TO PRIMARY BUILDING ENTRANCE - CONSTRUCT NEW CONCRETE SIDEWALK. MAX SLOPE OF SURFACE WALK IN THE DIRECTION OF TRAVEL 4.9%. MAX CROSS SLOPE 2%.

14. PROVIDE BREAK AREA / LUNCH PATIO WITH SEATING. SEE PROJECT DATA ON A1-0 FOR MIN SF AREA AND NUMBER OF SEATS.

15. PROPOSED LOCATION FOR FIRE WATER METER AND 2" SUPPLY LINE INTO BUILDING. ABOVE GROUND BACKFLOWS AND DETECTOR CHECK ASSEMBLIES SHALL BE SCREENED BY A 3' MIN. / 4' MAX. CMU WALL ON 3 SIDES, 3' CLEAR TO THE ASSEMBLY. SEE PLAN VIEW.

16. PROPOSED SEWER LATERAL FROM PUBLIC RIGHT OF WAY SERVING BOTH BUILDINGS 1 & 2.

17. NOT USED.

18. NEW CURB AND GUTTER PER CITY STANDARD.

19. PROPOSED ONSITE FIRE HYDRANT LOCATIONS.

20. ALL UTILITY STRUCTURES SUCH AS TRANSFORMERS AND BACK FLOW DEVICES SHALL BE SCREENED BY LANDSCAPE, SEE LANDSCAPE PLAN.

21. CONCRETE LANDING AND BICYCLE RACK FOR BIKES. SEE PROJECT DATA FOR SPACES REQUIRED.

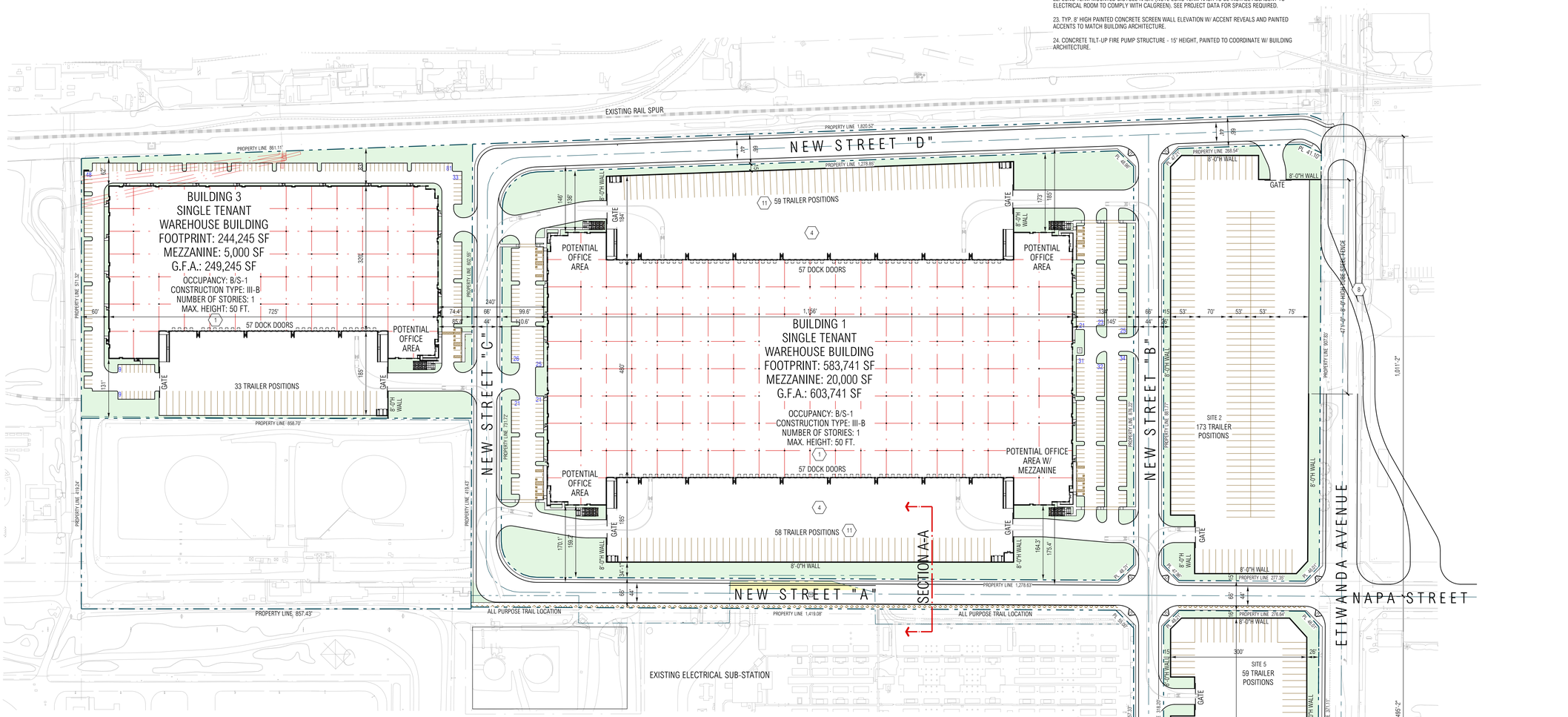
22. LONG TERM MOUNTED BICYCLE RACK. (NOTE LONG TERM RACK TO BE INSTALL ADJACENT TO ELECTRICAL ROOM TO COMPLY WITH CALGREEN). SEE PROJECT DATA FOR SPACES REQUIRED.

23. TYP. 8' HIGH PAINTED CONCRETE SCREEN WALL ELEVATION W/ ACCENT REVEALS AND PAINTED ACCENTS TO MATCH BUILDING ARCHITECTURE.

24. CONCRETE TILT-UP FIRE PUMP STRUCTURE - 15' HEIGHT, PAINTED TO COORDINATE W/ BUILDING ARCHITECTURE.

PROJECT DATA

GENERAL PLAN:	HEAVY INDUSTRIAL
EXISTING ZONE:	INDUSTRIAL EMPLOYMENT (IE)



PROJECT DATA

BLDG.	SITE AREA			FOOTPRINT AREA	MEZZ AREA	OFFICE AREA	WHSE AREA	G.F.A.	FAR COVERAGE	TRUCK DOORS PROVIDED	TRAILER PARKING PROVIDED	TOTAL REQUIRED PARKING	TOTAL PROVIDED PARKING	LANDSCAPE REQUIRED	LANDSCAPE PROVIDED	LANDSCAPE PERCENTAGE	BUILDING INTERIOR CLEAR
1	1,270,962 SF	29.18 AC		583,741 SF	20,000 SF	25,000 SF	578,741 SF	603,741 SF	47.50%	114 DOORS	117 STALLS	265 STALLS	259 STALLS	63,548 SF	186,146 SF	14.65%	40 FEET
2	327,300 SF	7.51 AC		0 SF	0 SF	0 SF	0 SF	0 SF	0.00%	0 DOORS	173 STALLS	0 STALLS	0 STALLS	16,365 SF	54,837 SF	16.75%	0 FEET
3	504,525 SF	11.58 AC		244,245 SF	5,000 SF	10,000 SF	239,245 SF	249,245 SF	49.40%	31 DOORS	33 STALLS	120 STALLS	180 STALLS	25,226 SF	71,592 SF	14.19%	40 FEET
4	N/A																
5	143,623 SF	3.30 AC		0 SF	0 SF	0 SF	0 SF	0 SF	0.00%	0 DOORS	59 STALLS	0 STALLS	0 STALLS	7,181 SF	30,989 SF	21.58%	0 FEET
TOTALS	2,246,410 SF	51.57 AC		827,986 SF	25,000 SF	35,000 SF	817,986 SF	852,986 SF	37.97%	145 DOORS	382 STALLS	384 STALLS	439 STALLS	112,321 SF	343,564 SF	15.29%	

SITE PLAN - PHASE 1

SCALE: 1" = 100'-0"

0' 20' 50' 100' 200'

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Irvine, CA 92618
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FX 949-341-0922

CONSULTANT

PROFESSIONAL SEALS

ETIWANDA AVENUE
RANCHO CUCAMONGA

ETIWANDA AVENUE
CITY OF RANCHO CUCAMONGA,
CALIFORNIA

APPLICANT:

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CONTACT: CHRIS SANFORD
csanford@aresmgmt.com

OWNER:

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SUITE 625
NEWPORT BEACH, CA 92660
ATTN: CHRIS STANFORD
PH: 949-892-4911

MARK	DATE	DESCRIPTION
SD		
SD	10/21/21	SCHEMATIC DESIGN

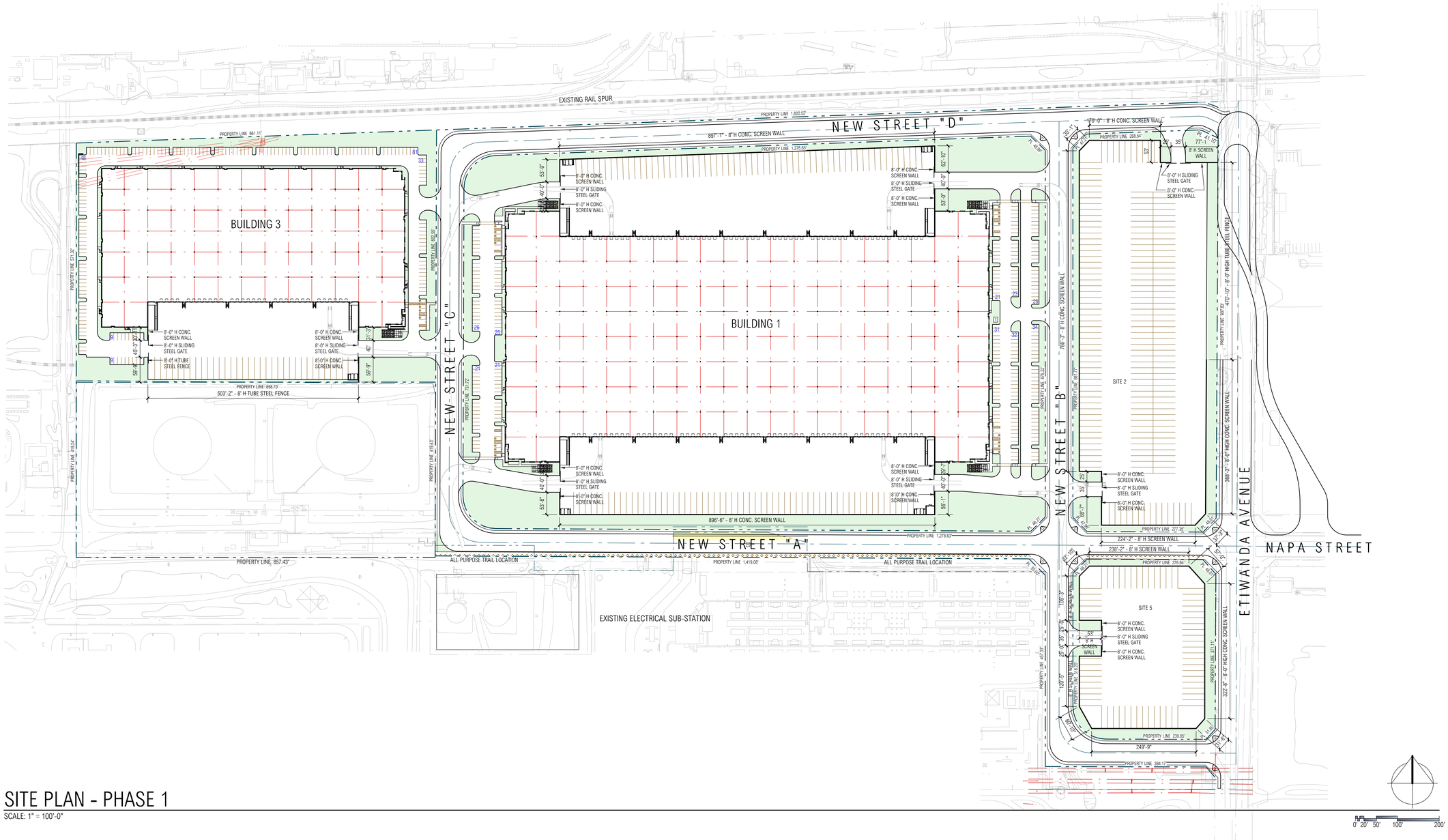
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OWNER PROJECT NO:	00000.00
CAD FILE NAME:	19135-00-A1-1P
DRAWN BY:	JH
CHK'D BY:	JH

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SHEET TITLE

SITE PLAN - PHASE 1

SHEET: A1-1P-1



SITE PLAN - PHASE 1

SCALE: 1" = 100'-0"

RGA

Office of Architectural Design

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CONSULTANT

PROFESSIONAL SEALS

ETIWANDA AVENUE
RANCHO CUCAMONGA

ETIWANDA AVENUE
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ETIWANDA
COMMERCE CENTER

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ATTN: CHRIS STANFORD
PH: 949-892-4911

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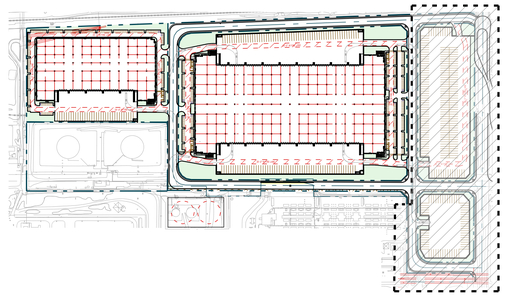
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SHEET TITLE

FENCE PLAN - PHASE 1

SHEET: A1-2P-1

KEY PLAN:



KEYNOTES: (00)

1. PROPOSED PAINTED CONCRETE TILT-UP 40' CLEAR INDUSTRIAL BUILDING.

2. TYPICAL PARKING STALL - 9' X 18'. MAY BE REDUCED TO 9' X 17' W/ 1'-0" OVERHANG. STRIPING PER CITY STANDARDS.

3. TYPICAL LOW EMITTING / FUEL EFFICIENT / CARPOOL / VANPOOL PARKING STALL - 9' X 18'. MAY BE REDUCED TO 9' X 17' W/ 1'-0" OVERHANG. STRIPING PER CITY STANDARDS. MINIMUM 8% OF ALL PARKING SPACES PROVIDED PER BUILDING. A MINIMUM OF 6% OF ALL PARKING SPACES PROVIDED PER BUILDING SHALL BE EQUIPPED FOR FUTURE EV CHARGING CAPACITY.

4. 7" THICK CONCRETE YARD W/ GRADE LEVEL TRUCK DOORS AND TRAILER PARKING AREAS.

5. FULLY IRRIGATED LANDSCAPE AREA BOUNDED BY 6" CONCRETE CURB - SEE CONCEPT LANDSCAPE PLAN.

6. PRIMARY BUILDING ENTRANCE W/ DECORATIVE CONCRETE ENTRY WALK.

7. LOCATION OF 8'-0" HIGH TRASH AND RECYCLABLE BINS. SEE SHEET A2-1 FOR ELEVATION AND SECTIONS.

8. NEW 8'-0" HIGH BLACK TUBE STEEL FENCE.

9. PROPERTY LINES.

10. PROPOSED TRANSFORMER LOCATION.

11. 14' X 50' TRUCK TRAILER PARKING AREA.

12. ACCESSIBLE PARKING STALLS 9' X 18'-0" MIN.

13. DASHED LINE INDICATES : NEW 5'-0" WIDE SURFACE WALK ACCESSIBLE PATH OF TRAVEL FROM PUBLIC SIDEWALK & PARKING STALLS TO PRIMARY BUILDING ENTRANCE - CONSTRUCT NEW CONCRETE SIDEWALK. MAX SLOPE OF SURFACE WALK IN THE DIRECTION OF TRAVEL 4.9%. MAX CROSS SLOPE 2%.

14. PROVIDE BREAK AREA / LUNCH PATIO WITH SEATING. SEE PROJECT DATA ON A1-0 FOR MIN SF AREA AND NUMBER OF SEATS.

15. PROPOSED LOCATION FOR FIRE WATER METER AND 2" SUPPLY LINE INTO BUILDING. ABOVE GROUND BACKFLOWS AND DETECTOR CHECK ASSEMBLIES SHALL BE SCREENED BY A 3' MIN. / 4' MAX. CMU WALL ON 3 SIDES, 3' CLEAR TO THE ASSEMBLY. SEE PLAN VIEW.

16. PROPOSED SEWER LATERAL FROM PUBLIC RIGHT OF WAY SERVING BOTH BUILDINGS 1 & 2.

17. NOT USED.

18. NEW CURB AND GUTTER PER CITY STANDARD.

19. PROPOSED ONSITE FIRE HYDRANT LOCATIONS.

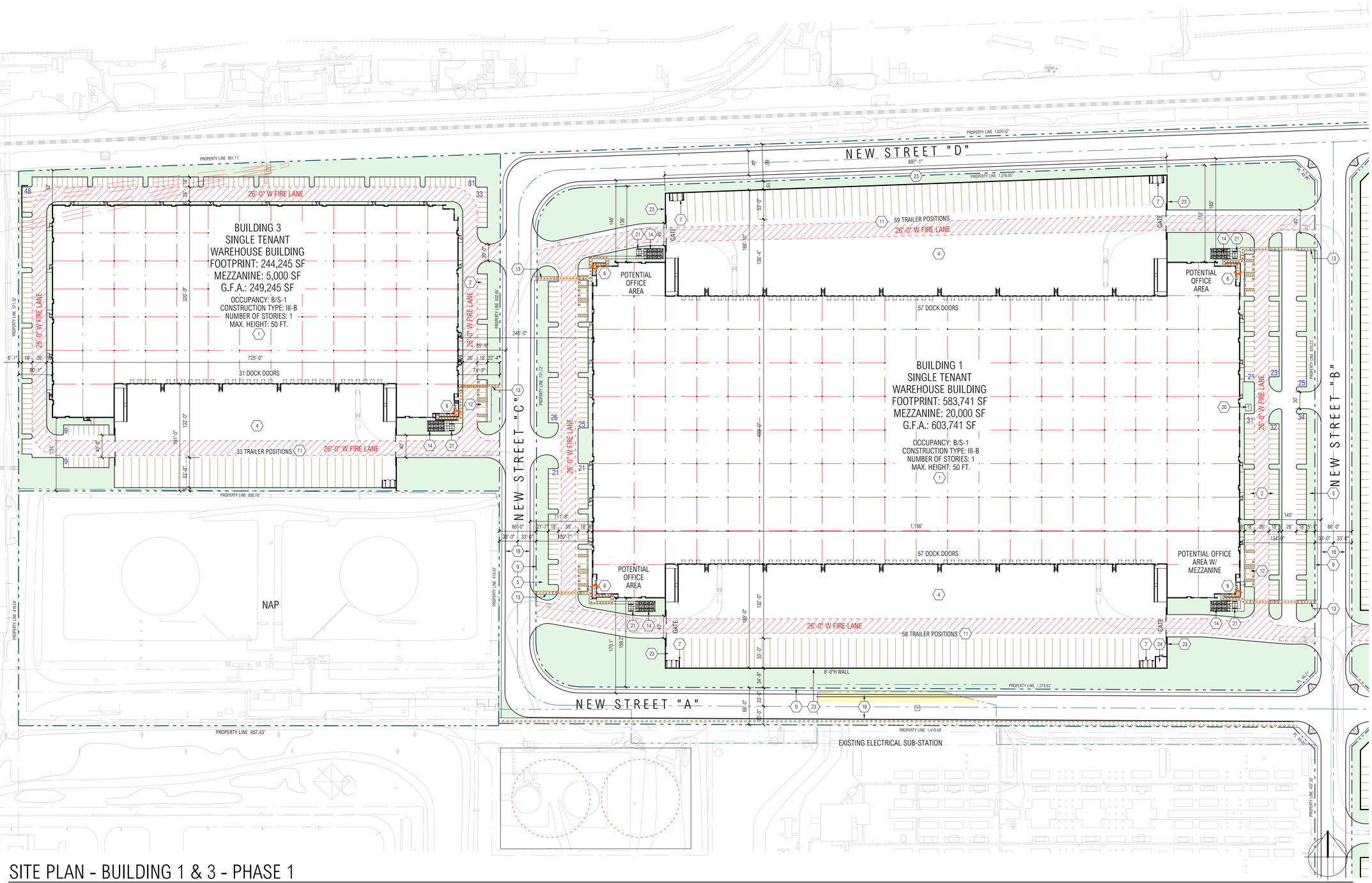
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21. CONCRETE LANDING AND BICYCLE RACK FOR BIKES. SEE PROJECT DATA FOR SPACES REQUIRED.

22. LONG TERM MOUNTED BICYCLE RACK. (NOTE LONG TERM RACK TO BE INSTALL ADJACENT TO ELECTRICAL ROOM TO COMPLY WITH CALGREEN). SEE PROJECT DATA FOR SPACES REQUIRED.

23. TYP. 8' HIGH PAINTED CONCRETE SCREEN WALL ELEVATION W/ ACCENT REVEALS AND PAINTED ACCENTS TO MATCH BUILDING ARCHITECTURE.

24. CONCRETE TILT-UP FIRE PUMP STRUCTURE - 15' HEIGHT, PAINTED TO COORDINATE W/ BUILDING ARCHITECTURE.



SITE PLAN - BUILDING 1 & 3 - PHASE 1

SCALE: 1" = 70'-0"

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RANCHO CUCAMONGA

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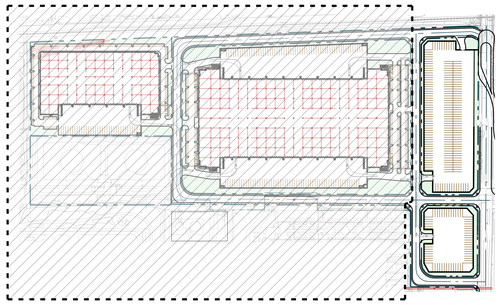
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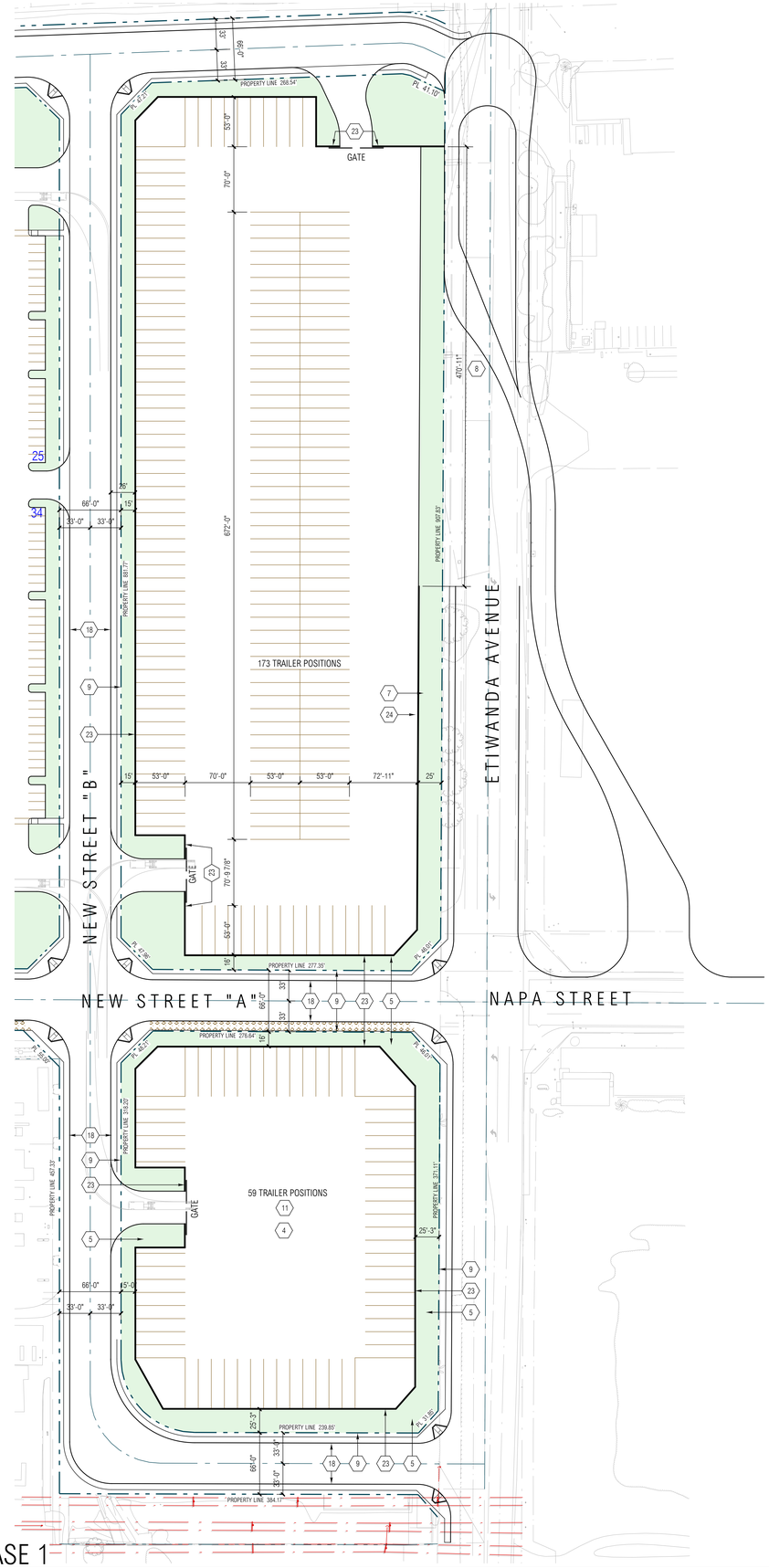
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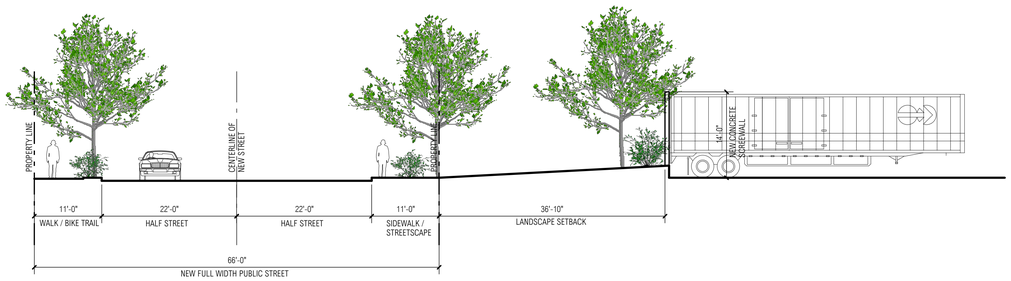
SITE PLAN - PHASE 1

SHEET: A1-3P-1

KEY PLAN:




NEW STREET "B"
NEW STREET "A"
NAPA STREET
ETIWANDA AVENUE
PROPERTY LINE 268.54'
PROPERTY LINE 277.35'
PROPERTY LINE 278.64'
PROPERTY LINE 239.85'
PROPERTY LINE 384.17'
PROPERTY LINE 457.33'
PROPERTY LINE 29.82'
PROPERTY LINE 271.11'
PROPERTY LINE 497.17'
PROPERTY LINE 497.87'
PL 41.10'
PL 41.01'
PL 41.00'
PL 40.27'
PL 40.27'
PL 40.27'
PL 40.27'
PL 41.00'
PL 41.01'
PL 41.10'
GATE
GATE
GATE
GATE
173 TRAILER POSITIONS
59 TRAILER POSITIONS
66'-0"
53'-0"
70'-0"
72'-11"
25'
33'-0"
15'
470'-11"
429'-0"
70'-9 7/8"
65'-0"
66'-0"
33'-0"
33'-0"
15'
25'-3"
25'-3"
37'-10"
66'-0"
33'-0"
33'-0"
25'-3"
66'-0"
33'-0"
33'-0"
15'
25'-3"
66'-0"
33'-0"
33'-0"
15'
25'-3"
66'-0"
33'-0"
33'-0"
15'



STREET SECTION A-A

SCALE: 1" = 10'-0"

SITE PLAN GENERAL NOTES:

1. TYPICAL 90 DEG. PARKING STALLS SIZES ARE 9'W X 18' LONG INCLUDING A 1' LANDSCAPE OVERHANG TYPICAL EXCEPT AT ACCESSIBLE STALLS.

2. PARALLEL STALLS ARE 9' X 24'.

3. SETBACK REQUIREMENTS:

BUILDING SETBACK:	
FRONT:	25 FEET FROM CURBFACE
INTERIOR SIDEYARD:	5 FEET
PARKING SETBACK:	15 FEET FROM CURBFACE

FIRE DEPT. GENERAL NOTES:

1. FIRE ACCESS LANES SHALL COMPLY WITH THE FOLLOWING:

MIN. WIDTH:	26 FEET
MIN. CLEARANCE:	14'-6"
INSIDE RADIUS:	20 FT.
OUTSIDE RADIUS:	46 FT.
WEIGHT CAPACITY:	80,000 LBS.

2. ALL GATES SHALL BE INSTALLED PER THE FIRE DISTRICT REQUIREMENTS.

3. SIGNAGE STANDARDS PER RANCHO CUCAMONGA FIRE PROTECTION DISTRICT DECEMBER 2016.

ASSESSOR'S NUMBERS:

APN: 0229-283-79

KEYNOTES: (00)

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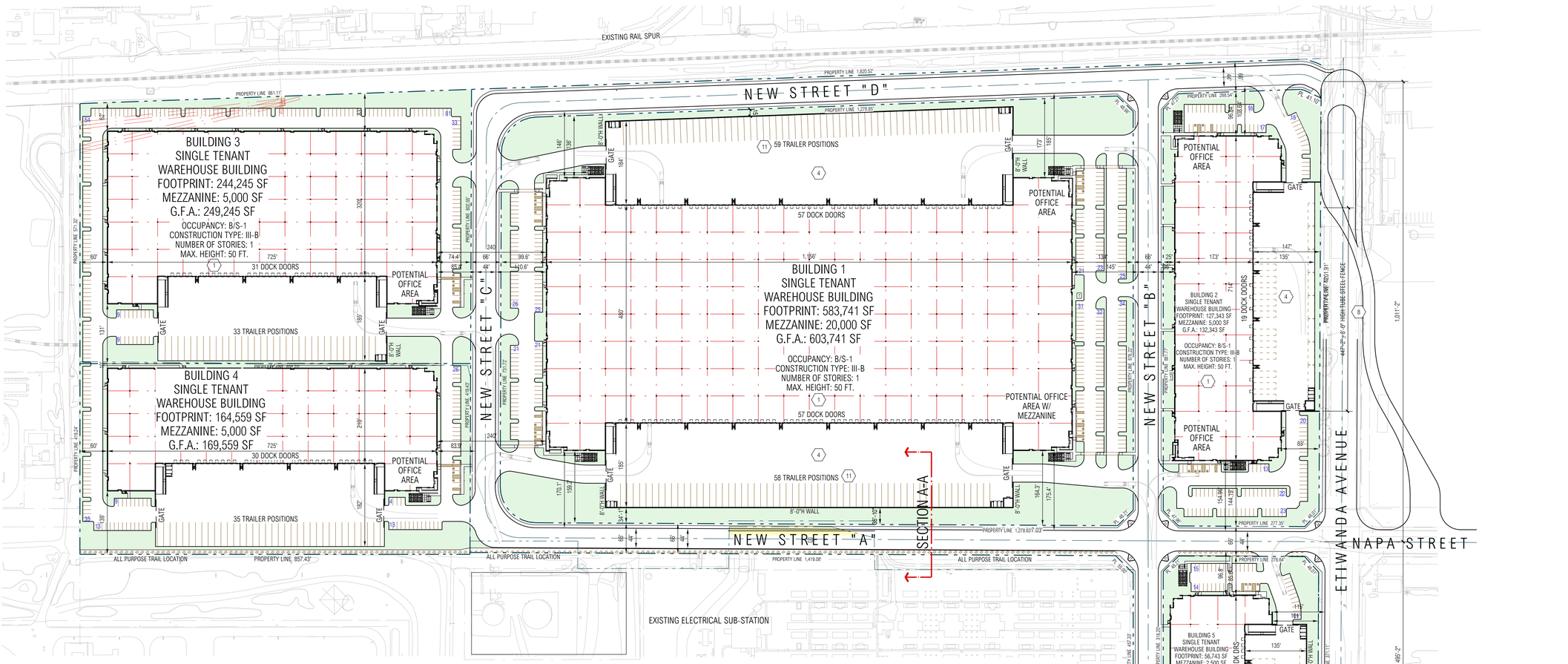
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PROJECT DATA

GENERAL PLAN:	HEAVY INDUSTRIAL
EXISTING ZONE:	INDUSTRIAL EMPLOYMENT (IE)



PROJECT DATA

BLDG.	SITE AREA		FOOTPRINT AREA	MEZZ AREA	OFFICE AREA	WHSE AREA	G.F.A.	FAR COVERAGE	TRUCK DOORS PROVIDED	TRAILER PARKING PROVIDED	TOTAL REQUIRED PARKING	TOTAL PROVIDED PARKING	LANDSCAPE REQUIRED	LANDSCAPE PROVIDED	LANDSCAPE PERCENTAGE	BUILDING INTERIOR CLEAR
1	1,270,962 SF	29.18 AC	583,741 SF	20,000 SF	25,000 SF	578,741 SF	603,741 SF	47.50%	114 DOORS	117 STALLS	265 STALLS	259 STALLS	63,548 SF	186,146 SF	14.65%	40 FEET
2	327,300 SF	7.51 AC	127,343 SF	5,000 SF	10,000 SF	122,343 SF	132,343 SF	40.43%	19 DOORS	20 STALLS	91 STALLS	126 STALLS	16,365 SF	63,359 SF	19.36%	36 FEET
3	504,525 SF	11.58 AC	244,245 SF	5,000 SF	10,000 SF	239,245 SF	249,245 SF	49.40%	31 DOORS	33 STALLS	120 STALLS	186 STALLS	25,226 SF	71,592 SF	14.19%	40 FEET
4	359,743 SF	8.26 AC	164,559 SF	5,000 SF	10,000 SF	159,559 SF	169,559 SF	47.13%	30 DOORS	35 STALLS	100 STALLS	100 STALLS	17,987 SF	44,592 SF	12.40%	36 FEET
5	143,623 SF	3.30 AC	56,743 SF	2,500 SF	5,000 SF	54,243 SF	59,243 SF	41.25%	6 DOORS	6 STALLS	54 STALLS	58 STALLS	7,181 SF	38,559 SF	26.85%	32 FEET
TOTALS	2,606,153 SF	59.83 AC	1,176,631 SF	37,500 SF	60,000 SF	1,154,131 SF	1,214,131 SF	46.59%	200 DOORS	211 STALLS	629 STALLS	729 STALLS	130,308 SF	404,248 SF	15.51%	

SITE PLAN - PHASE 2A

SCALE: 1" = 100'-0"

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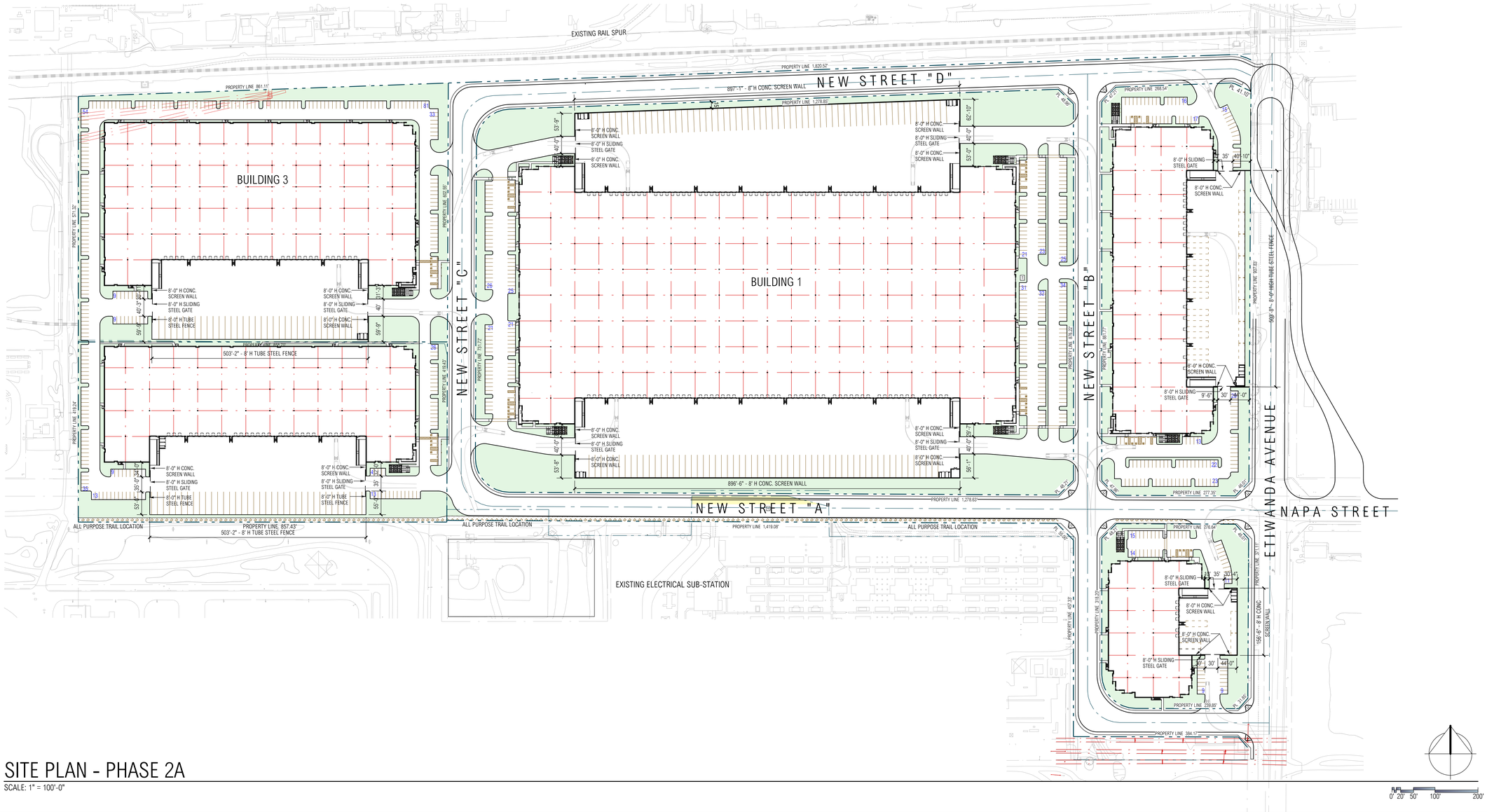
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SITE PLAN - PHASE 2A

SHEET A1-1P-2A



SITE PLAN - PHASE 2A

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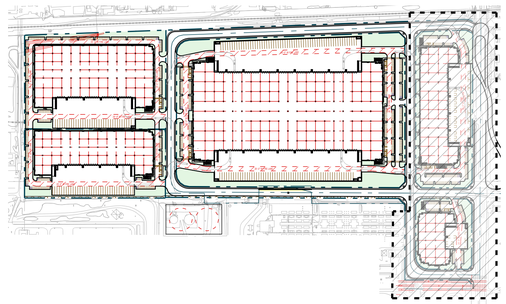
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SHEET TITLE
FENCE PLAN - PHASE 24

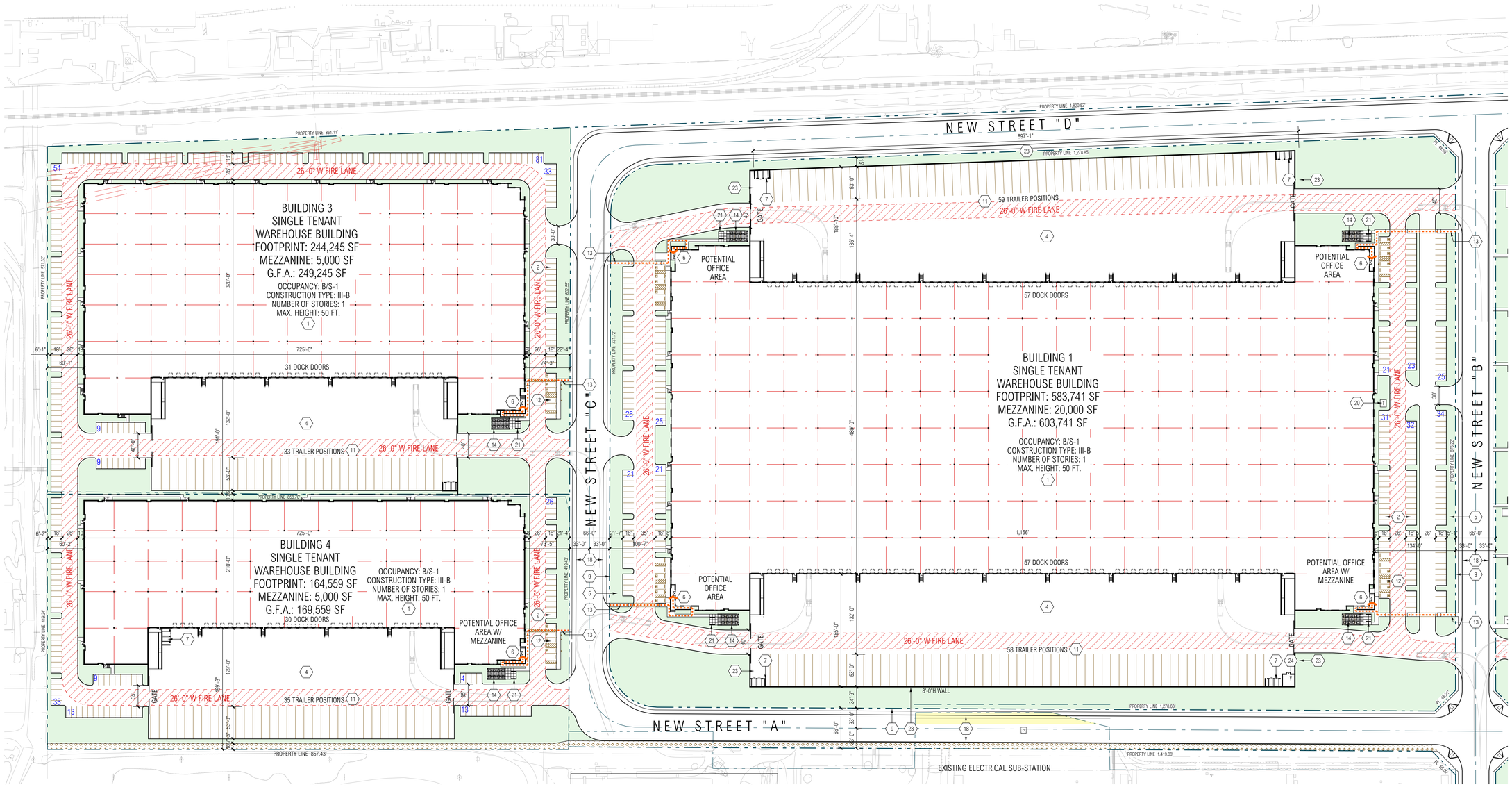
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SITE PLAN - BUILDING 1, 3 & 4 - PHASE 2A

SCALE: 1" = 70'-0"

0' 20' 50' 100' 200'

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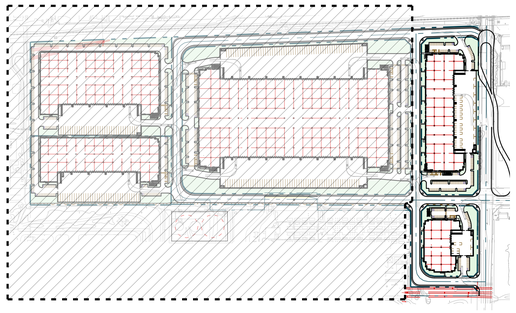
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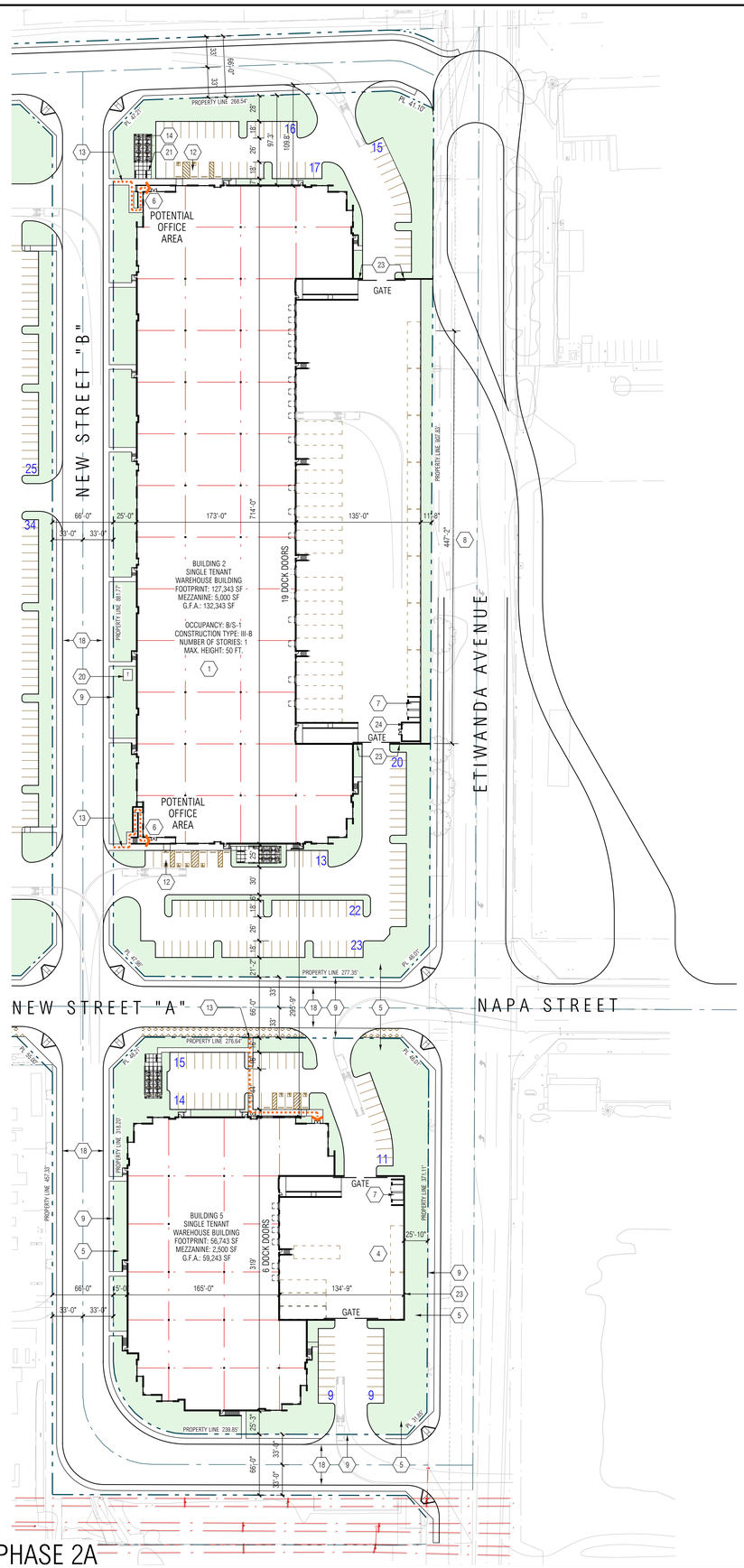
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SITE PLAN - PHASE 2A

SHEET A1-3P-2A

KEY PLAN:





SITE PLAN - BUILDING 2 & 5 - PHASE 2A

SCALE: 1" = 60'-0"

0' 20' 50' 100' 200'

KEYNOTES:

1. PROPOSED PAINTED CONCRETE TILT-UP 40' CLEAR INDUSTRIAL BUILDING.

2. TYPICAL PARKING STALL - 9' X 18'. MAY BE REDUCED TO 9' X 17' W/ 1'-0" OVERHANG. STRIPING PER CITY STANDARDS.

3. TYPICAL LOW EMITTING / FUEL EFFICIENT / CARPOOL / VANPOOL PARKING STALL - 9' X 18'. MAY BE REDUCED TO 9' X 17' W/ 1'-0" OVERHANG. STRIPING PER CITY STANDARDS. MINIMUM 8% OF ALL PARKING SPACES PROVIDED PER BUILDING. A MINIMUM OF 6% OF ALL PARKING SPACES PROVIDED PER BUILDING SHALL BE EQUIPPED FOR FUTURE EV CHARGING CAPACITY.

4. 7" THICK CONCRETE YARD W/ GRADE LEVEL TRUCK DOORS AND TRAILER PARKING AREAS.

5. FULLY IRRIGATED LANDSCAPE AREA BOUNDED BY 6" CONCRETE CURB - SEE CONCEPT LANDSCAPE PLAN.

6. PRIMARY BUILDING ENTRANCE W/ DECORATIVE CONCRETE ENTRY WALK.

7. LOCATION OF 8'-0" HIGH TRASH AND RECYCLABLE BINS. SEE SHEET A2-1 FOR ELEVATION AND SECTIONS.

8. NEW 8'-0" HIGH BLACK TUBE STEEL FENCE.

9. PROPERTY LINES.

10. PROPOSED TRANSFORMER LOCATION.

11. 14' X 50' TRUCK TRAILER PARKING AREA.

12. ACCESSIBLE PARKING STALLS 9' X 18'-0" MIN.

13. DASHED LINE INDICATES : NEW 5'-0" WIDE SURFACE WALK ACCESSIBLE PATH OF TRAVEL FROM PUBLIC SIDEWALK & PARKING STALLS TO PRIMARY BUILDING ENTRANCE - CONSTRUCT NEW CONCRETE SIDEWALK. MAX SLOPE OF SURFACE WALK IN THE DIRECTION OF TRAVEL 4.9%. MAX CROSS SLOPE 2%.

14. PROVIDE BREAK AREA / LUNCH PATIO WITH SEATING. SEE PROJECT DATA ON A1-0 FOR MIN SF AREA AND NUMBER OF SEATS.

15. PROPOSED LOCATION FOR FIRE WATER METER AND 2" SUPPLY LINE INTO BUILDING. ABOVE GROUND BACKFLOWS AND DETECTOR CHECK ASSEMBLIES SHALL BE SCREENED BY A 3' MIN. / 4' MAX. CMU WALL ON 3 SIDES, 3' CLEAR TO THE ASSEMBLY. SEE PLAN VIEW.

16. PROPOSED SEWER LATERAL FROM PUBLIC RIGHT OF WAY SERVING BOTH BUILDINGS 1 & 2.

17. NOT USED.

18. NEW CURB AND GUTTER PER CITY STANDARD.

19. PROPOSED ONSITE FIRE HYDRANT LOCATIONS.

20. ALL UTILITY STRUCTURES SUCH AS TRANSFORMERS AND BACK FLOW DEVICES SHALL BE SCREENED BY LANDSCAPE, SEE LANDSCAPE PLAN.

21. CONCRETE LANDING AND BICYCLE RACK FOR BIKES. SEE PROJECT DATA FOR SPACES REQUIRED.

22. LONG TERM MOUNTED BICYCLE RACK. (NOTE LONG TERM RACK TO BE INSTALL ADJACENT TO ELECTRICAL ROOM TO COMPLY WITH CALGREEN). SEE PROJECT DATA FOR SPACES REQUIRED.

23. TYP. 8' HIGH PAINTED CONCRETE SCREEN WALL ELEVATION W/ ACCENT REVEALS AND PAINTED ACCENTS TO MATCH BUILDING ARCHITECTURE.

24. CONCRETE TILT-UP FIRE PUMP STRUCTURE - 15' HEIGHT, PAINTED TO COORDINATE W/ BUILDING ARCHITECTURE.

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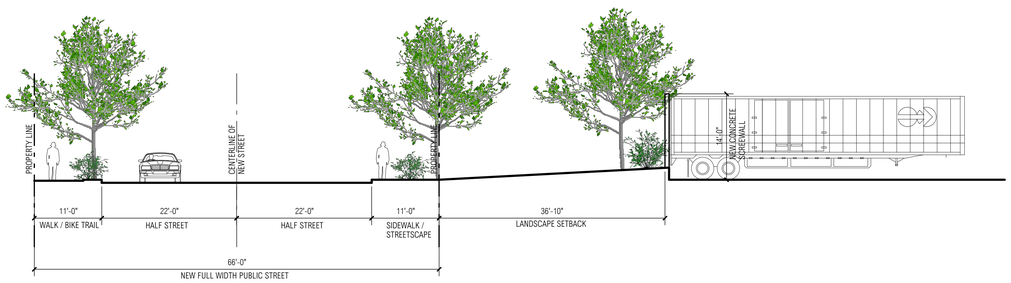
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SHEET TITLE

SITE PLAN - PHASE 2A



STREET SECTION A-A

SCALE: 1" = 10'-0"

SITE PLAN GENERAL NOTES:

1. TYPICAL 90 DEG. PARKING STALLS SIZES ARE 9'W X 18' LONG INCLUDING A 1' LANDSCAPE OVERHANG TYPICAL EXCEPT AT ACCESSIBLE STALLS.

2. PARALLEL STALLS ARE 9' X 24'.

3. SETBACK REQUIREMENTS:

BUILDING SETBACK:	
FRONT:	25 FEET FROM CURBFACE
INTERIOR SIDEYARD:	5 FEET
PARKING SETBACK:	15 FEET FROM CURBFACE

FIRE DEPT. GENERAL NOTES:

1. FIRE ACCESS LANES SHALL COMPLY WITH THE FOLLOWING:

MIN. WIDTH:	26 FEET
MIN. CLEARANCE:	14'-6"
INSIDE RADIUS:	20 FT.
OUTSIDE RADIUS:	46 FT.
WEIGHT CAPACITY:	80,000 LBS.

2. ALL GATES SHALL BE INSTALLED PER THE FIRE DISTRICT REQUIREMENTS.

3. SIGNAGE STANDARDS PER RANCHO CUCAMONGA FIRE PROTECTION DISTRICT DECEMBER 2016.

ASSESSOR'S NUMBERS:

APN: 0229-283-79

KEYNOTES: (00)

1. PROPOSED PAINTED CONCRETE TILT-UP 40' CLEAR INDUSTRIAL BUILDING.

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3. TYPICAL LOW EMITTING / FUEL EFFICIENT / CARPOOL / VANPOOL PARKING STALL - 9' X 18'. MAY BE REDUCED TO 9' X 17' W/ 1'-0" OVERHANG. STRIPING PER CITY STANDARDS. MINIMUM 8% OF ALL PARKING SPACES PROVIDED PER BUILDING. A MINIMUM OF 6% OF ALL PARKING SPACES PROVIDED PER BUILDING SHALL BE EQUIPPED FOR FUTURE EV CHARGING CAPACITY.

4. 7" THICK CONCRETE YARD W/ GRADE LEVEL TRUCK DOORS AND TRAILER PARKING AREAS.

5. FULLY IRRIGATED LANDSCAPE AREA BOUNDED BY 6" CONCRETE CURB - SEE CONCEPT LANDSCAPE PLAN.

6. PRIMARY BUILDING ENTRANCE W/ DECORATIVE CONCRETE ENTRY WALK.

7. LOCATION OF 8'-0" HIGH TRASH AND RECYCLABLE BINS. SEE SHEET A2-1 FOR ELEVATION AND SECTIONS.

8. NEW 8'-0" HIGH BLACK TUBE STEEL FENCE.

9. PROPERTY LINES.

10. PROPOSED TRANSFORMER LOCATION.

11. 14' X 50' TRUCK TRAILER PARKING AREA.

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14. PROVIDE BREAK AREA / LUNCH PATIO WITH SEATING. SEE PROJECT DATA ON A1-0 FOR MIN SF AREA AND NUMBER OF SEATS.

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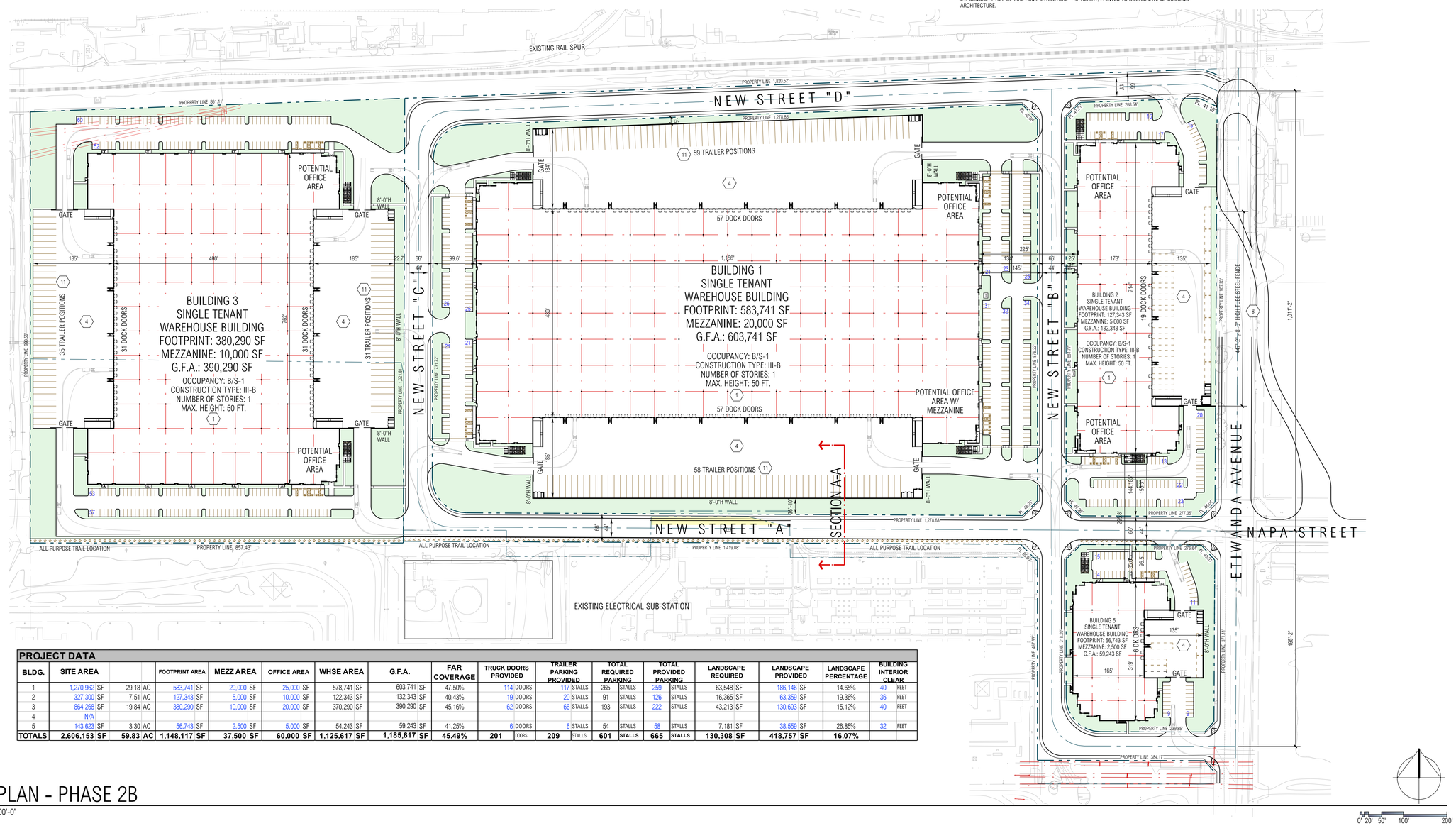
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24. CONCRETE TILT-UP FIRE PUMP STRUCTURE - 15' HEIGHT, PAINTED TO COORDINATE W/ BUILDING ARCHITECTURE.

PROJECT DATA

GENERAL PLAN:	HEAVY INDUSTRIAL
EXISTING ZONE:	INDUSTRIAL EMPLOYMENT (IE)



PROJECT DATA																		
BLDG.	SITE AREA		FOOTPRINT AREA	MEZZ AREA	OFFICE AREA	WHSE AREA	G.F.A.	FAR COVERAGE	TRUCK DOORS PROVIDED	TRAILER PARKING PROVIDED	TOTAL REQUIRED PARKING	TOTAL PROVIDED PARKING	LANDSCAPE REQUIRED	LANDSCAPE PROVIDED	LANDSCAPE PERCENTAGE	BUILDING INTERIOR CLEAR	
1	1,270,962 SF	29.18 AC	583,741 SF	20,000 SF	25,000 SF	578,741 SF	603,741 SF	47.50%	114 DOORS	117 STALLS	265 STALLS	259 STALLS	63,548 SF	186,146 SF	14.65%	40	FEET
2	327,300 SF	7.51 AC	127,343 SF	5,000 SF	10,000 SF	122,343 SF	132,343 SF	40.43%	19 DOORS	20 STALLS	91 STALLS	126 STALLS	16,365 SF	63,359 SF	19.36%	36	FEET
3	864,268 SF	19.84 AC	380,290 SF	10,000 SF	20,000 SF	370,290 SF	390,290 SF	45.16%	62 DOORS	66 STALLS	193 STALLS	222 STALLS	43,213 SF	130,693 SF	15.12%	40	FEET
4	N/A																
5	143,623 SF	3.30 AC	56,743 SF	2,500 SF	5,000 SF	54,243 SF	59,243 SF	41.25%	6 DOORS	6 STALLS	54 STALLS	58 STALLS	7,181 SF	38,559 SF	26.85%	32	FEET
TOTALS	2,606,153 SF	59.83 AC	1,148,117 SF	37,500 SF	60,000 SF	1,125,617 SF	1,185,617 SF	45.49%	201 DOORS	209 STALLS	601 STALLS	665 STALLS	130,308 SF	418,757 SF	16.07%		

SITE PLAN - PHASE 2B

SCALE: 1" = 100'-0"

0' 20' 50' 100' 200'

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SITE PLAN - PHASE 2B

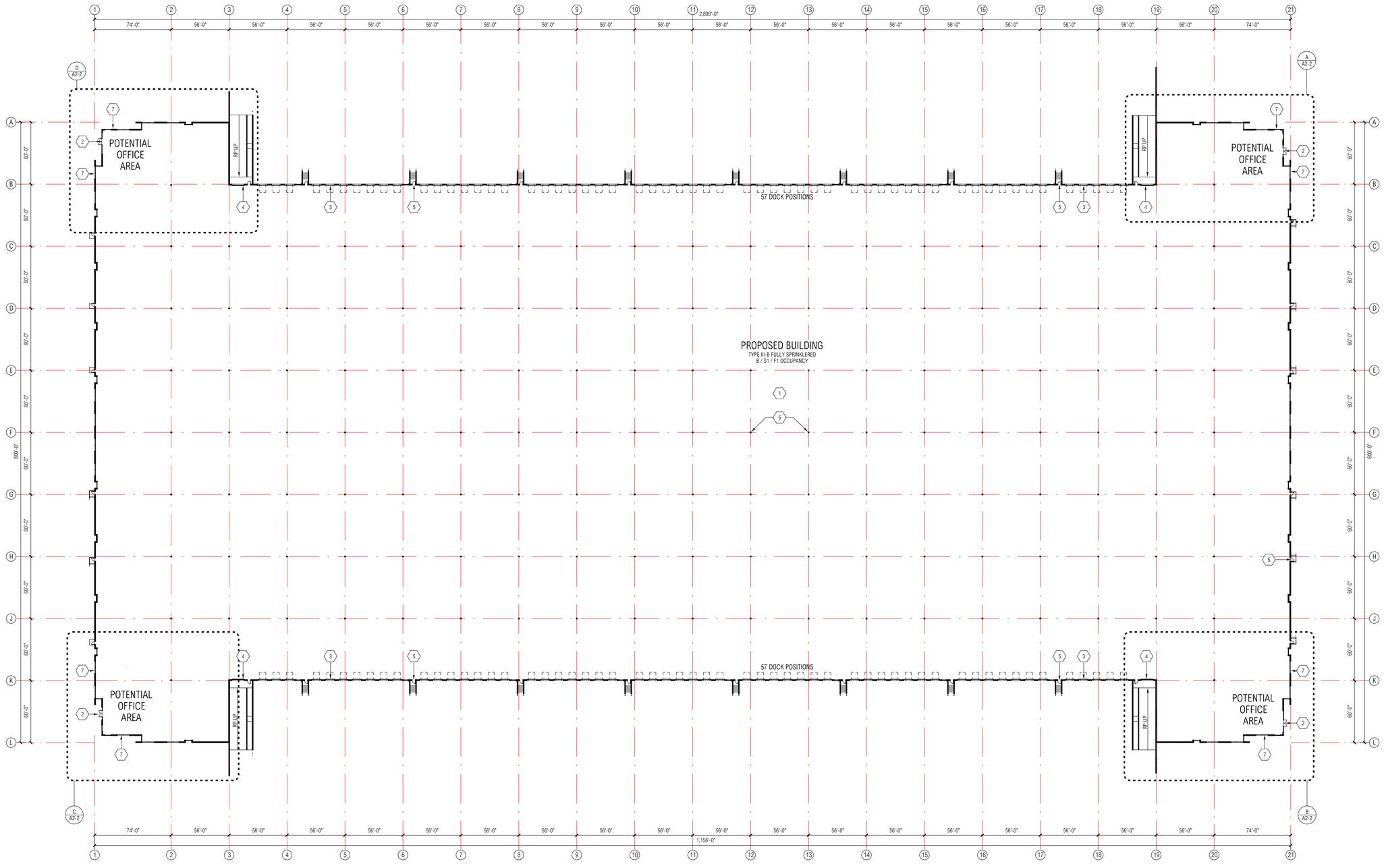
SHEET A1-1P-2B

KEYNOTES (000)

1. PAINTED CONCRETE TILT-UP WAREHOUSE / OFFICE / MANUFACTURING FACILITY.
2. PRIMARY ENTRANCE.
3. PAINTED 9' X 10' DOCK HIGH METAL TRUCK DOORS.
4. PAINTED 12' X 14' GRADE LEVEL METAL TRUCK DOORS.
5. PAINTED 3' X 7' METAL ACCESS MAN DOORS.
6. STRUCTURAL BUILDING COLUMN.
7. STOREFRONT: GLAZING SET IN CLEAR ANODIZED ALUMINUM 2" X 4 1/4" MIN. OFF-SET GLAZING SYSTEM.

CONSTRUCTION NOTES:

1. BUILDING WALLS ARE PAINTED TILT-UP CONCRETE. TYPICAL PARAPET HEIGHT IS 42'-0" TO 50'-0".
2. BUILDING IS PROPOSED AS WAREHOUSE AND OFFICE



BUILDING 1 - FLOOR PLAN

SCALE: 1" = 40'-0"

0' 10' 20' 50' 100'

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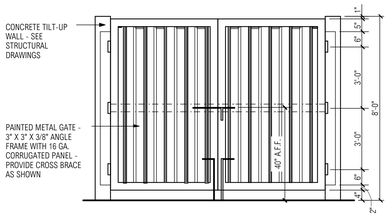
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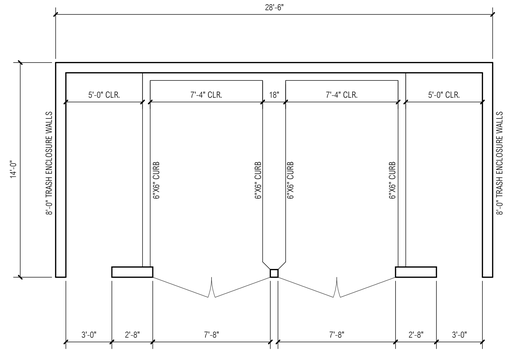
FLOOR PLAN - BUILDING 1

SHEET: 1A2-1P



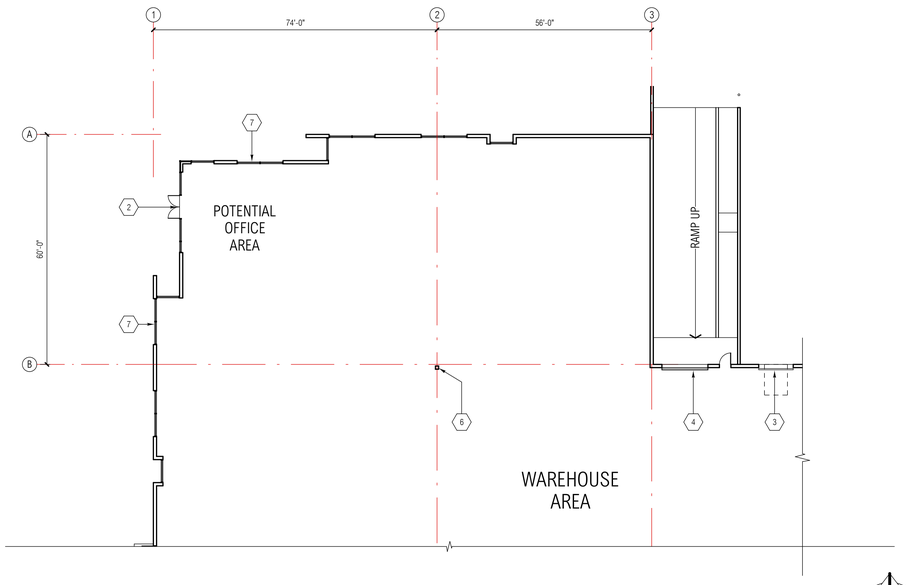
TRASH ENCLOSURE FRONT ELEVATION

SCALE: 1/4" = 1'-0"



TRASH ENCLOSURE PLAN VIEW

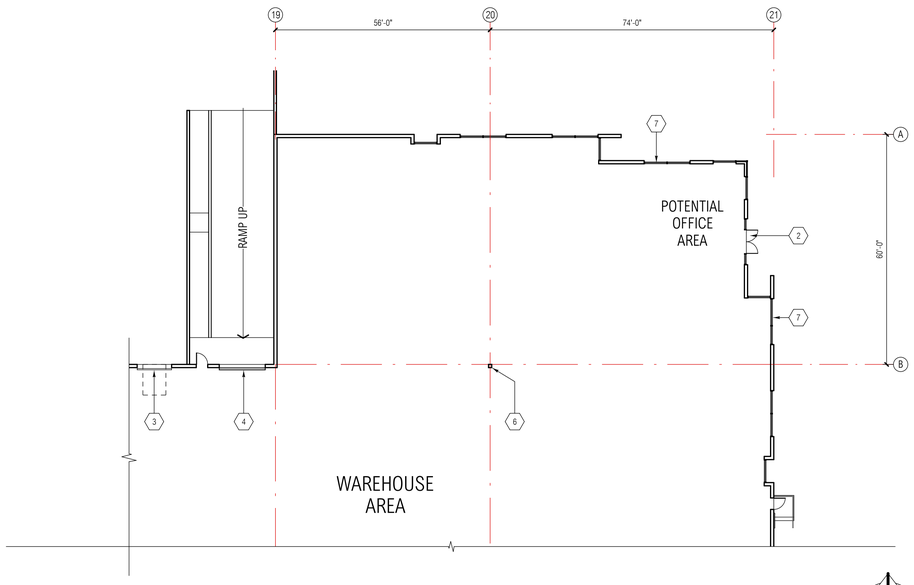
SCALE: 1/4" = 1'-0"



ENLARGED NORTHWEST FLOOR PLAN - BUILDING 1

SCALE: 1/16" = 1'-0"

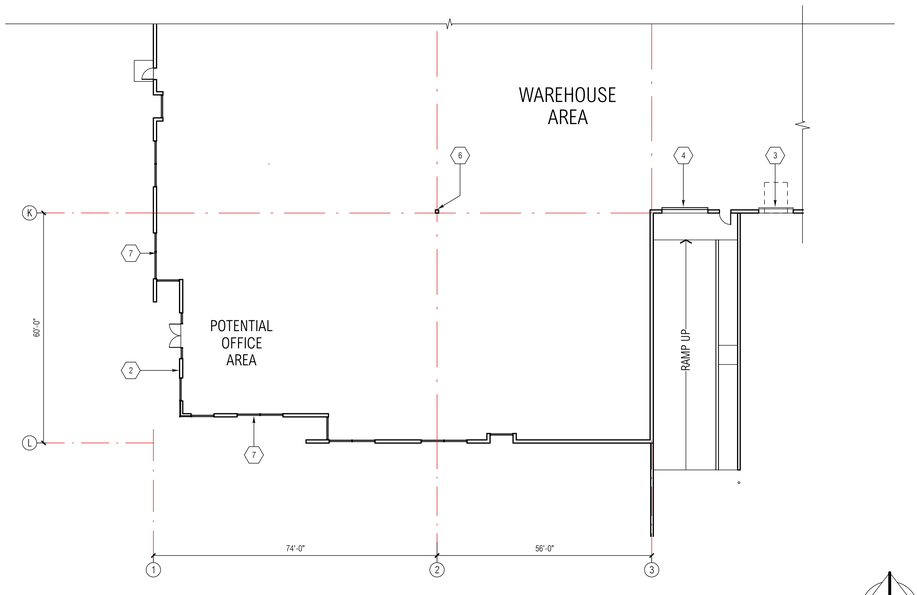
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ENLARGED NORTHEAST FLOOR PLAN - BUILDING 1

SCALE: 1/16" = 1'-0"

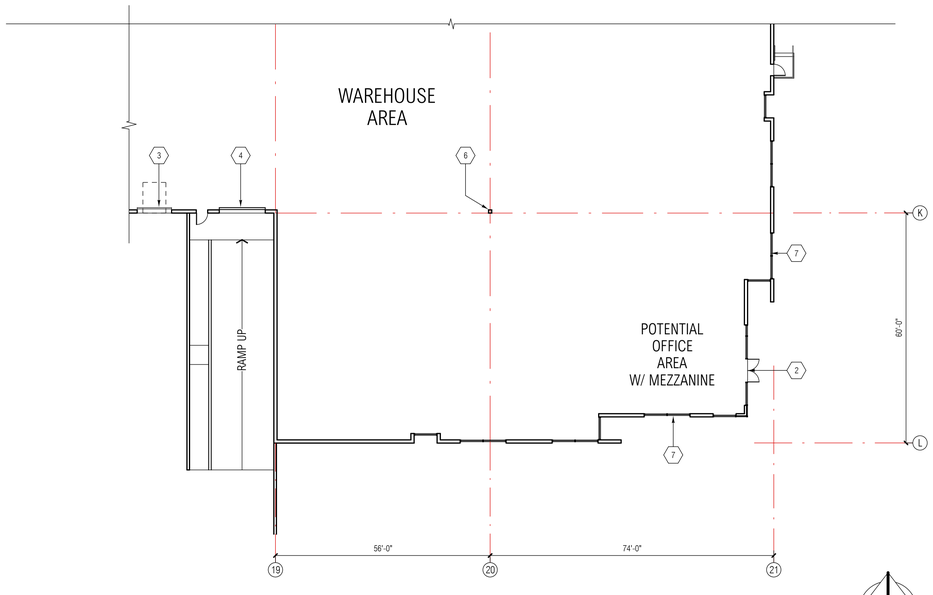
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ENLARGED SOUTHWEST FLOOR PLAN - BUILDING 1

SCALE: 1/16" = 1'-0"

C



ENLARGED SOUTHEAST FLOOR PLAN - BUILDING 1

SCALE: 1/16" = 1'-0"

B

NOTE:
TOTAL OFFICE AREA
NOT TO EXCEED
40,000 SF

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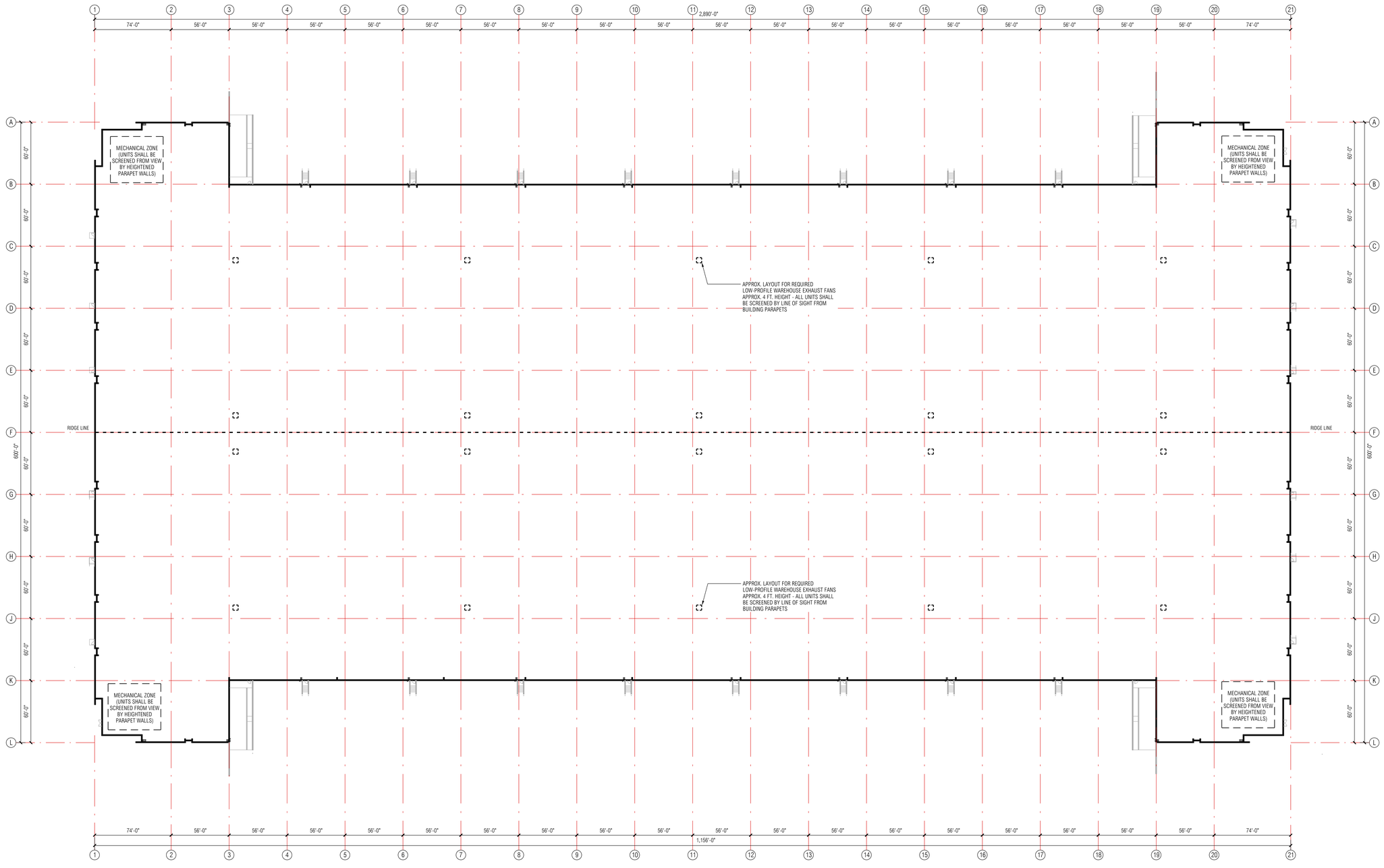
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FLOOR PLAN ENLARGEMENTS - BUILDING 1

SHEET: 1A2-2P



BUILDING 1 - ROOF PLAN

SCALE: 1" = 40'-0"

0' 20' 50' 100' 200'

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ROOF PLAN - BUILDING 1

SHEET: 1A2-3P



EAST ELEVATION

SCALE: 1" = 30'-0"



WEST ELEVATION

SCALE: 1" = 30'-0"



SOUTH ELEVATION

SCALE: 1" = 40'-0"



NORTH ELEVATION

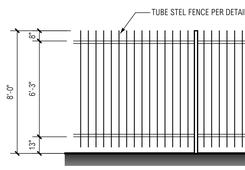
SCALE: 1" = 40'-0"

KEYNOTES

1. PRIMARY STOREFRONT ENTRANCE.
2. PAINTED 12' WIDE X 15' HIGH LEVEL VERTICAL LIFT TRUCK DOOR.
3. PAINTED 9' WIDE X 10' HIGH VERTICAL LIFT TRUCK DOOR.
4. 3' X 7' PAINTED METAL MAN DOOR.
5. 2" WIDE X 3/4" DEEP HORIZONTAL / VERTICAL REVEAL.
6. BLUE GLASS IN CLEAR ALUMINUM STOREFRONT FRAME SYSTEM.
7. PAINTED CONCRETE TILT-UP EXTERIOR WALL CONSTRUCTION.
8. PROPOSED FUTURE TENANT SIGNAGE LOCATION UNDER SEPARATE SIGN PACKAGE. NOT INCLUDED IN THIS SUBMITTAL PACKAGE.
9. 8' HIGH BLACK TUBULAR STEEL ROLLING GATE W/ VIEW OBSCURING PERFORATED MESH - TYP. AT YARD ENTRANCES.
10. TYP. 8' HIGH PAINTED CONCRETE SCREEN WALL ELEVATION W/ ACCENT REVEALS AND PAINTED ACCENTS TO MATCH BUILDING ARCHITECTURE.
11. TUBE STEEL METAL PANEL ENTRY CANOPY.
12. ACCENT PAINTED CONCRETE PANEL.
13. INTERIOR ROOF DRAIN.
14. PAINTED CONCRETE AND STEEL TRELLIS LUNCH CANOPY STRUCTURE.
15. CLEAR ANODIZED ALUMINUM SUNSHADE DEVICE OVER WINDOWS FOR SOLAR CONTROL.

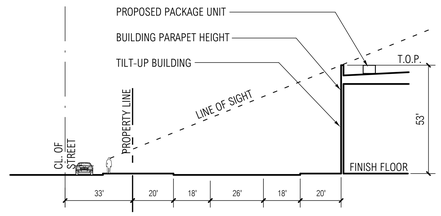
FINISH SCHEDULE:

	1. FIELD COLOR -	SHERWIN WILLIAMS - ZIRCON SW7667
	2. LIGHT ACCENT COLOR -	SHERWIN WILLIAMS - GRAY SHINGLE SW7670
	3. DARK ACCENT COLOR -	SHERWIN WILLIAMS - PEPPERCORN SW7674
	4. BLUE ACCENT COLOR -	SHERWIN WILLIAMS - DISTANCE SW6243
	6. GLASS:	PPG SOLARCOOL PACIFICA



TYPICAL TUBE STEEL FENCE ELEVATION

SCALE: 1/4" = 1'-0"



TYPICAL EQUIPMENT SCREEN LINE OF SIGHT 2

SCALE 1" = 30'-0"

NOTE: LINE OF SIGHT TAKEN FROM 6'-0" ABOVE FINISH GRADE



SIMILAR SITE LIGHTING STYLE 1

SCALE: N.T.S. MAX TOP OF LIGHT AT 25'-0"

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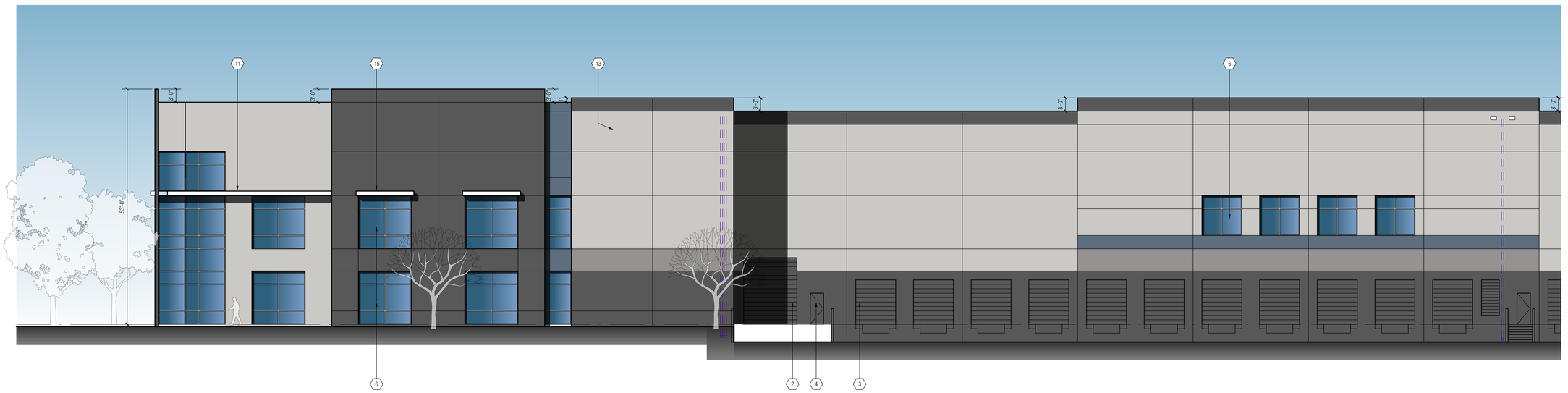
EXTERIOR ELEVATIONS - BUILDING 1

SHEET: 1A3-1P



ENLARGED ELEVATION

SCALE: 1" = 10'-0"



ENLARGED ELEVATION

SCALE: 1" = 10'-0"

KEYNOTES

1. PRIMARY STOREFRONT ENTRANCE.
2. PAINTED 12' WIDE X 15' HIGH LEVEL VERTICAL LIFT TRUCK DOOR.
3. PAINTED 9' WIDE X 10' HIGH VERTICAL LIFT TRUCK DOOR.
4. 3' X 7' PAINTED METAL MAN DOOR.
5. 2" WIDE X 3/4" DEEP HORIZONTAL / VERTICAL REVEAL.
6. BLUE GLASS IN CLEAR ALUMINUM STOREFRONT FRAME SYSTEM.
7. PAINTED CONCRETE TILT-UP EXTERIOR WALL CONSTRUCTION.
8. PROPOSED FUTURE TENANT SIGNAGE LOCATION UNDER SEPARATE SIGN PACKAGE. NOT INCLUDED IN THIS SUBMITTAL PACKAGE.
9. 8' HIGH BLACK TUBULAR STEEL ROLLING GATE W/ VIEW OBSCURING PERFORATED MESH - TYP. AT YARD ENTRANCES.
10. TYP. 8' HIGH PAINTED CONCRETE SCREEN WALL ELEVATION W/ ACCENT REVEALS AND PAINTED ACCENTS TO MATCH BUILDING ARCHITECTURE.
11. TUBE STEEL METAL PANEL ENTRY CANOPY.
12. ACCENT PAINTED CONCRETE PANEL.
13. INTERIOR ROOF DRAIN.
14. PAINTED CONCRETE AND STEEL TRELLIS LUNCH CANOPY STRUCTURE.
15. CLEAR ANODIZED ALUMINUM SUNSHADE DEVICE OVER WINDOWS FOR SOLAR CONTROL.

FINISH SCHEDULE:

	1. FIELD COLOR -	SHERWIN WILLIAMS - ZIRCON SW7667
	2. LIGHT ACCENT COLOR -	SHERWIN WILLIAMS - GRAY SHINGLE SW7670
	3. DARK ACCENT COLOR -	SHERWIN WILLIAMS - PEPPERCORN SW7674
	4. BLUE ACCENT COLOR -	SHERWIN WILLIAMS - DISTANCE SW6243
	6. GLASS:	PPG SOLARCOOL PACIFICA

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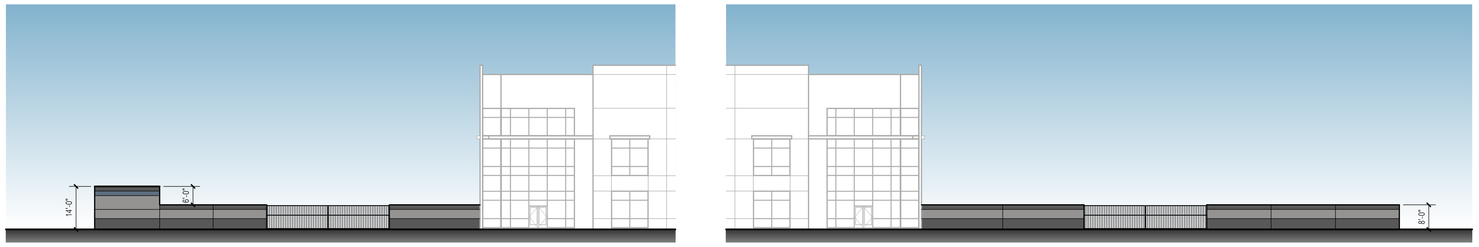
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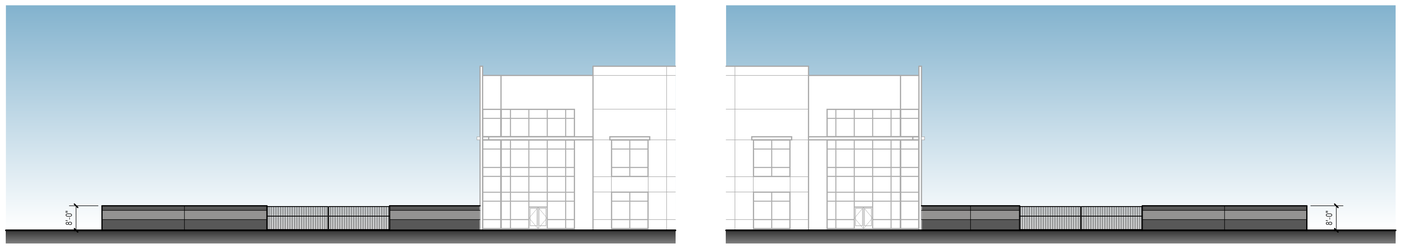
EXTERIOR ELEVATIONS - BUILDING 1

SHEET: 1A3-2P



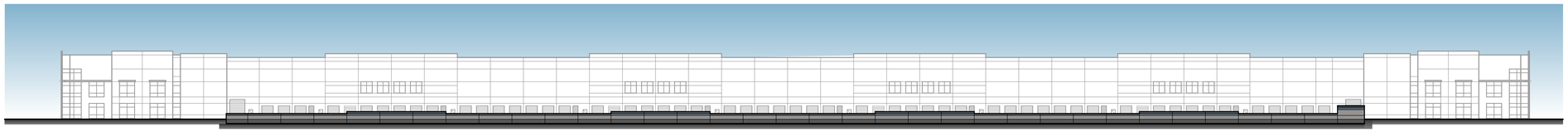
EAST SCREEN WALL ELEVATIONS

SCALE: 1" = 20'-0"



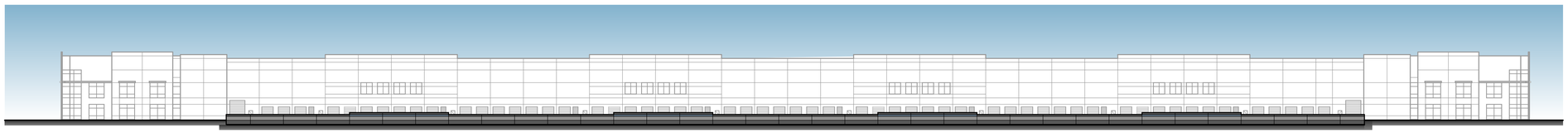
WEST SCREEN WALL ELEVATIONS

SCALE: 1" = 20'-0"



SOUTH SCREEN WALL ELEVATION

SCALE: 1" = 40'-0"



NORTH SCREEN WALL ELEVATION

SCALE: 1" = 40'-0"



ENLARGED SCREEN WALL ELEVATION

SCALE: 1/8" = 1'-0"

FINISH SCHEDULE:

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3. DARK ACCENT COLOR -	SHERWIN WILLIAMS - PEPPERCORN SW7674
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EXTERIOR ELEVATIONS - BUILDING 1

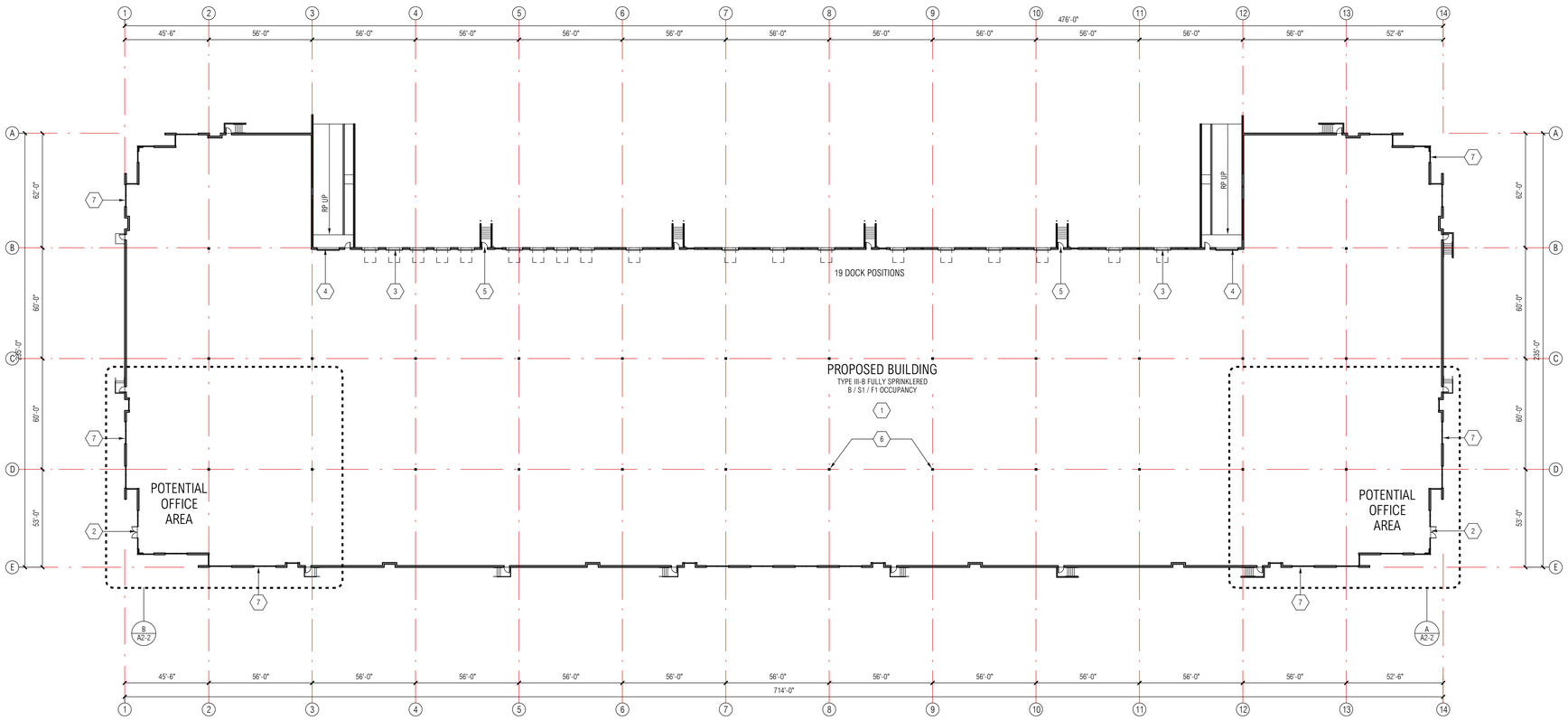
SHEET: 1A3-3P

KEYNOTES

1. PAINTED CONCRETE TILT-UP WAREHOUSE / OFFICE / MANUFACTURING FACILITY.
2. PRIMARY ENTRANCE.
3. PAINTED 9' X 10' DOCK HIGH METAL TRUCK DOORS.
4. PAINTED 12' X 14' GRADE LEVEL METAL TRUCK DOORS.
5. PAINTED 3' X 7' METAL ACCESS MAN DOORS.
6. STRUCTURAL BUILDING COLUMN.
7. STOREFRONT: GLAZING SET IN CLEAR ANODIZED ALUMINUM 2" X 4 1/4" MIN. OFF-SET GLAZING SYSTEM.

CONSTRUCTION NOTES:

1. BUILDING WALLS ARE PAINTED TILT-UP CONCRETE. TYPICAL PARAPET HEIGHT IS 42'-0" TO 50'-0".
2. BUILDING IS PROPOSED AS WAREHOUSE AND OFFICE



BUILDING 2 - FLOOR PLAN

SCALE: 1" = 30'-0"

0' 10' 20' 50' 100'

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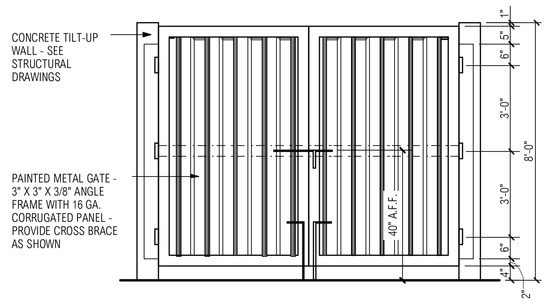
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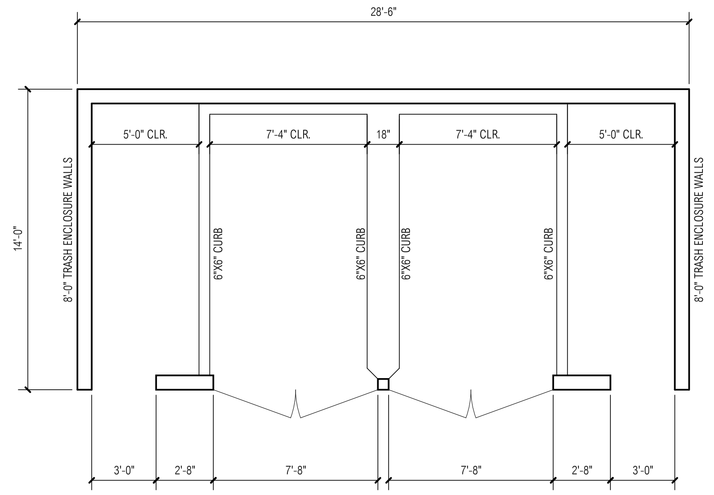
FLOOR PLAN - BUILDING 2

SHEET: 2A2-1P



TRASH ENCLOSURE FRONT ELEVATION

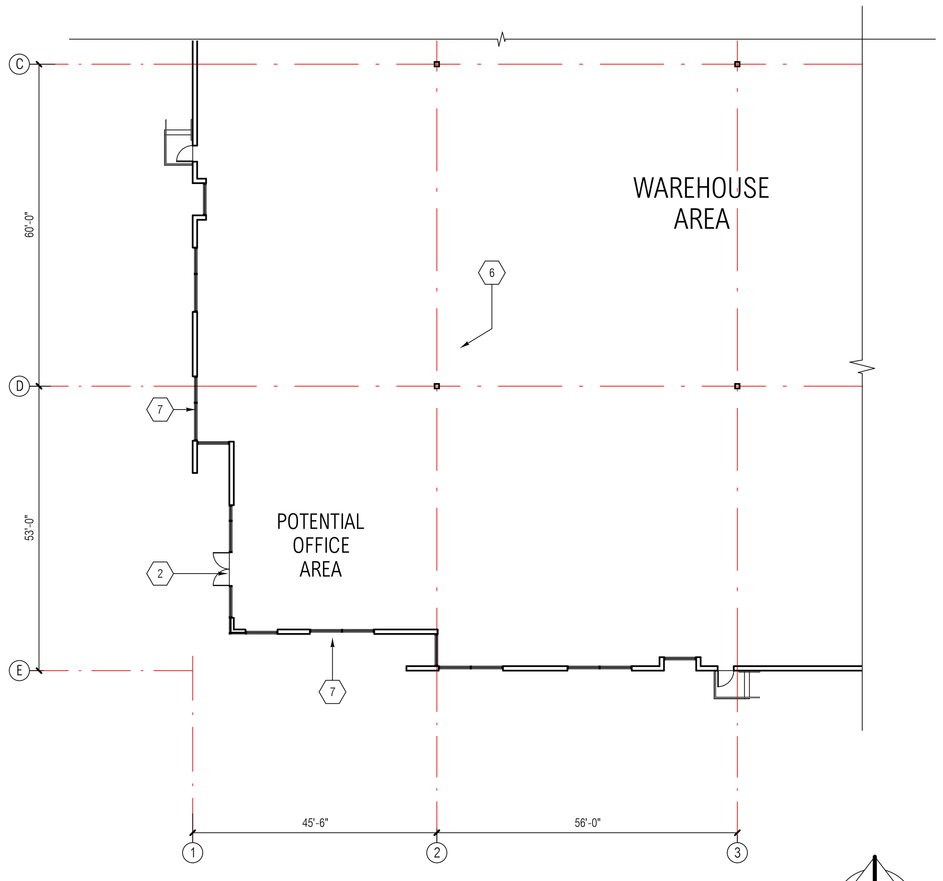
SCALE: 1/4" = 1'-0"



TRASH ENCLOSURE PLAN VIEW

SCALE: 1/4" = 1'-0"

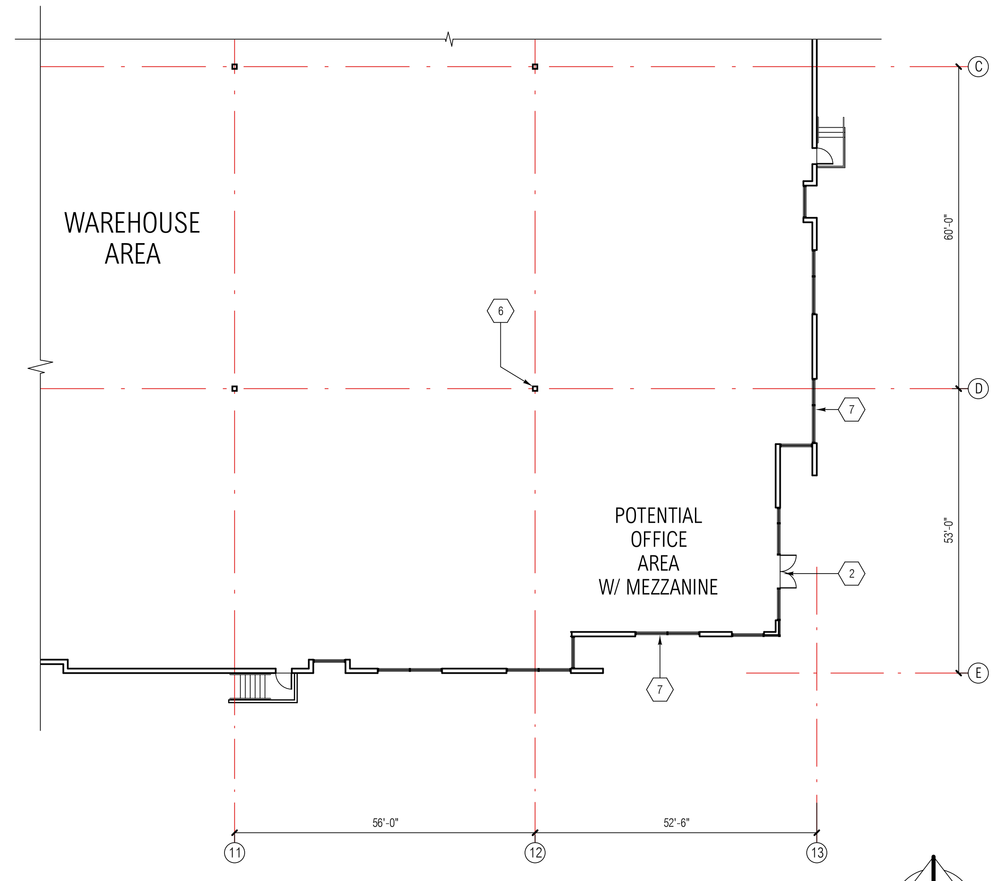
NOTE:
TOTAL OFFICE AREA
NOT TO EXCEED
10,000 SF



ENLARGED SOUTHWEST FLOOR PLAN - BUILDING 2

SCALE: 1/16" = 1'-0"

B



ENLARGED SOUTHEAST FLOOR PLAN - BUILDING 2

SCALE: 1/16" = 1'-0"

A

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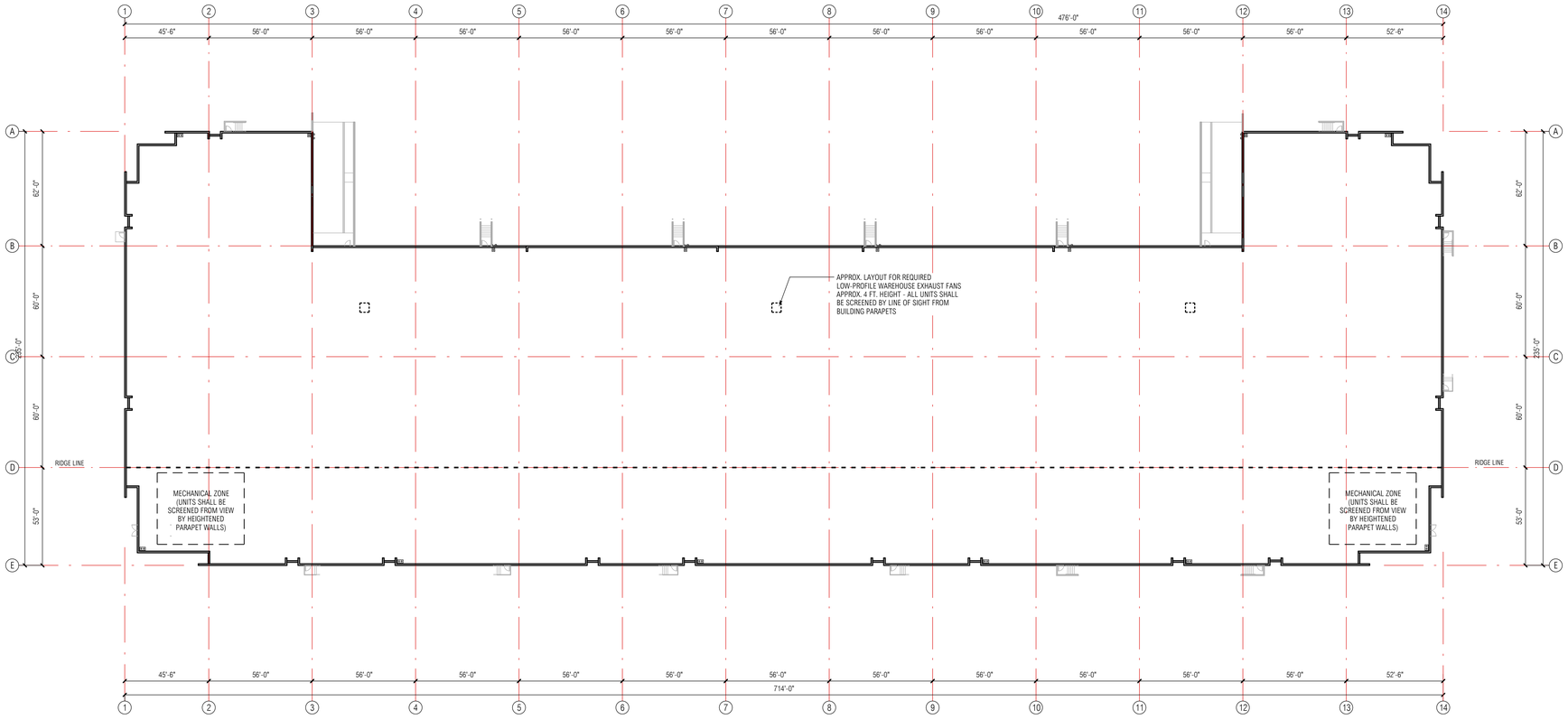
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FLOOR PLAN ENLARGEMENTS - BUILDING 2

SHEET: 2A2-2P



BUILDING 2 - ROOF PLAN

SCALE: 1" = 30'-0"

0' 10' 20' 50' 100'

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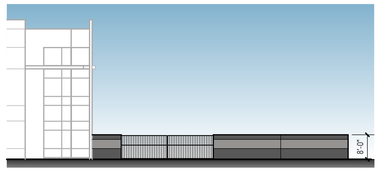
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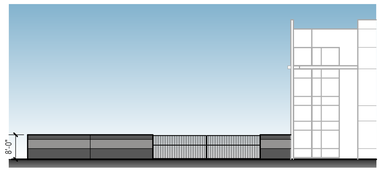
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ROOF PLAN - BUILDING 2

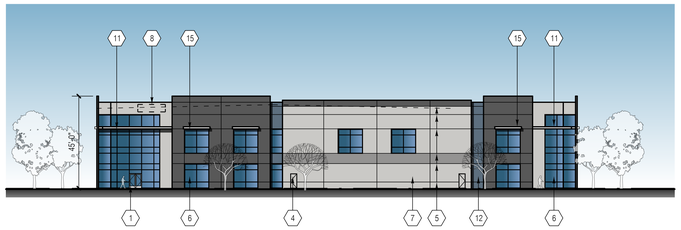
SHEET: 2A2-3P



SOUTH SCREEN WALL ELEVATION
SCALE: 1" = 20'-0"



NORTH SCREEN WALL ELEVATION
SCALE: 1" = 20'-0"



NORTH ELEVATION
SCALE: 1" = 30'-0"



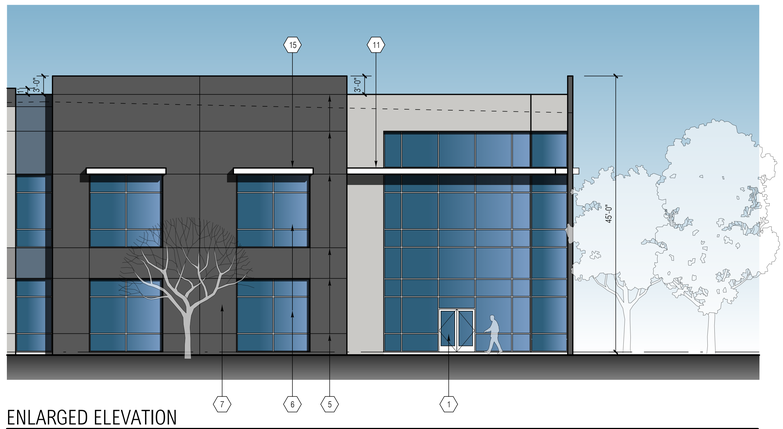
NORTH ELEVATION
SCALE: 1" = 30'-0"



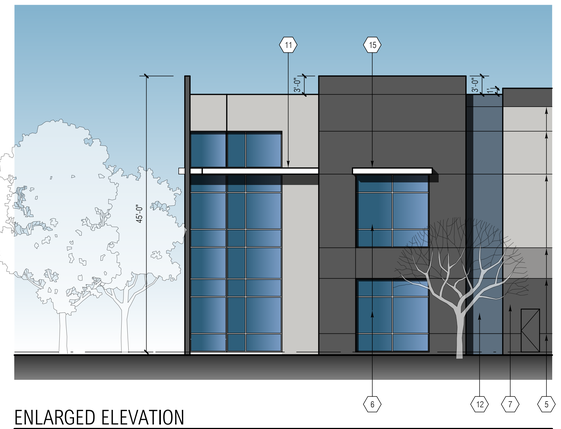
NORTH ELEVATION
SCALE: 1" = 30'-0"



NORTH ELEVATION
SCALE: 1" = 30'-0"



ENLARGED ELEVATION
SCALE: 1" = 10'-0"



ENLARGED ELEVATION
SCALE: 1" = 10'-0"

KEYNOTES (00)

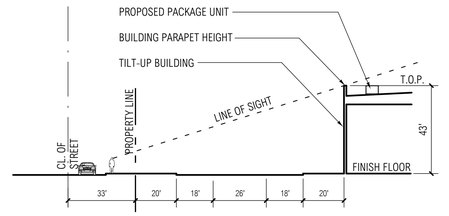
1. PRIMARY STOREFRONT ENTRANCE.
2. PAINTED 12' WIDE X 15' HIGH LEVEL VERTICAL LIFT TRUCK DOOR.
3. PAINTED 9' WIDE X 10' HIGH VERTICAL LIFT TRUCK DOOR.
4. 3' X 7' PAINTED METAL MAN DOOR.
5. 2" WIDE X 3/4" DEEP HORIZONTAL / VERTICAL REVEAL.
6. BLUE GLASS IN CLEAR ALUMINUM STOREFRONT FRAME SYSTEM.
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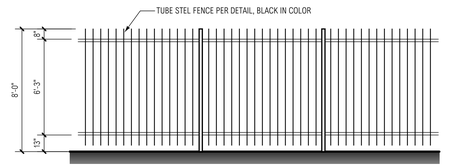
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	4. BLUE ACCENT COLOR -	SHERWIN WILLIAMS - DISTANCE SW6243
	6. GLASS:	PPG SOLARCOOL PACIFICA



SIMILAR SITE LIGHTING STYLE (1)
SCALE: N.T.S. MAX TOP OF LIGHT AT 25'-0"



TYPICAL EQUIPMENT SCREEN LINE OF SIGHT (2)
SCALE 1" = 30'-0"
NOTE: LINE OF SIGHT TAKEN FROM 6'-0" ABOVE FINISH GRADE



TYPICAL TUBE STEEL FENCE ELEVATION
SCALE: 1/4" = 1'-0"

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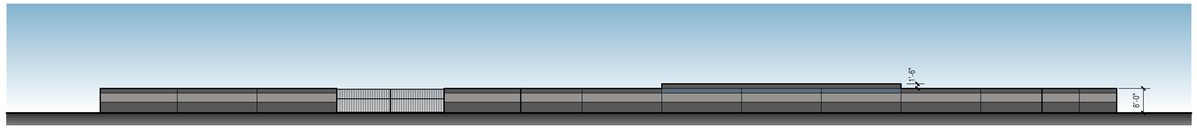
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SHEET TITLE
EXTERIOR ELEVATIONS - BUILDING 2

SHEET: 2A3-1P

FINISH SCHEDULE:

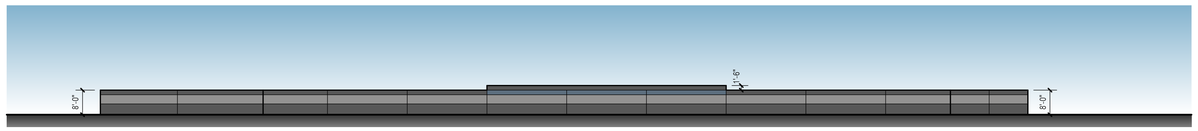
1. FIELD COLOR -	SHERWIN WILLIAMS - ZIRCON SW7667
2. LIGHT ACCENT COLOR -	SHERWIN WILLIAMS - GRAY SHINGLE SW7670
3. DARK ACCENT COLOR -	SHERWIN WILLIAMS - PEPPERCORN SW7674
4. BLUE ACCENT COLOR -	SHERWIN WILLIAMS - DISTANCE SW6243
6. GLASS:	PPG SOLARCOOL PACIFICA



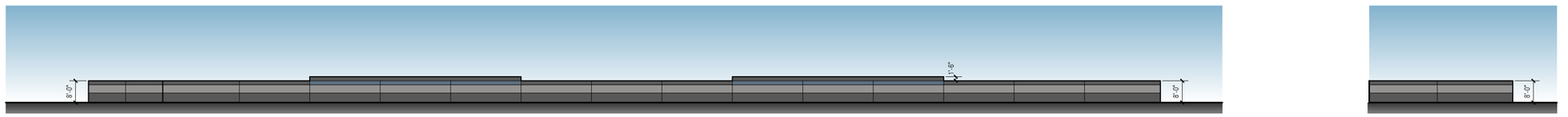
NORTH SCREEN WALL ELEVATION
SCALE: 1" = 20'-0"



WEST SCREEN WALL ELEVATION
SCALE: 1" = 30'-0"



SOUTH SCREEN WALL ELEVATION
SCALE: 1" = 30'-0"



EAST SCREEN WALL ELEVATION
SCALE: 1" = 20'-0"

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EXTERIOR ELEVATIONS - BUILDING 2
PHASE I SCREEN WALLS

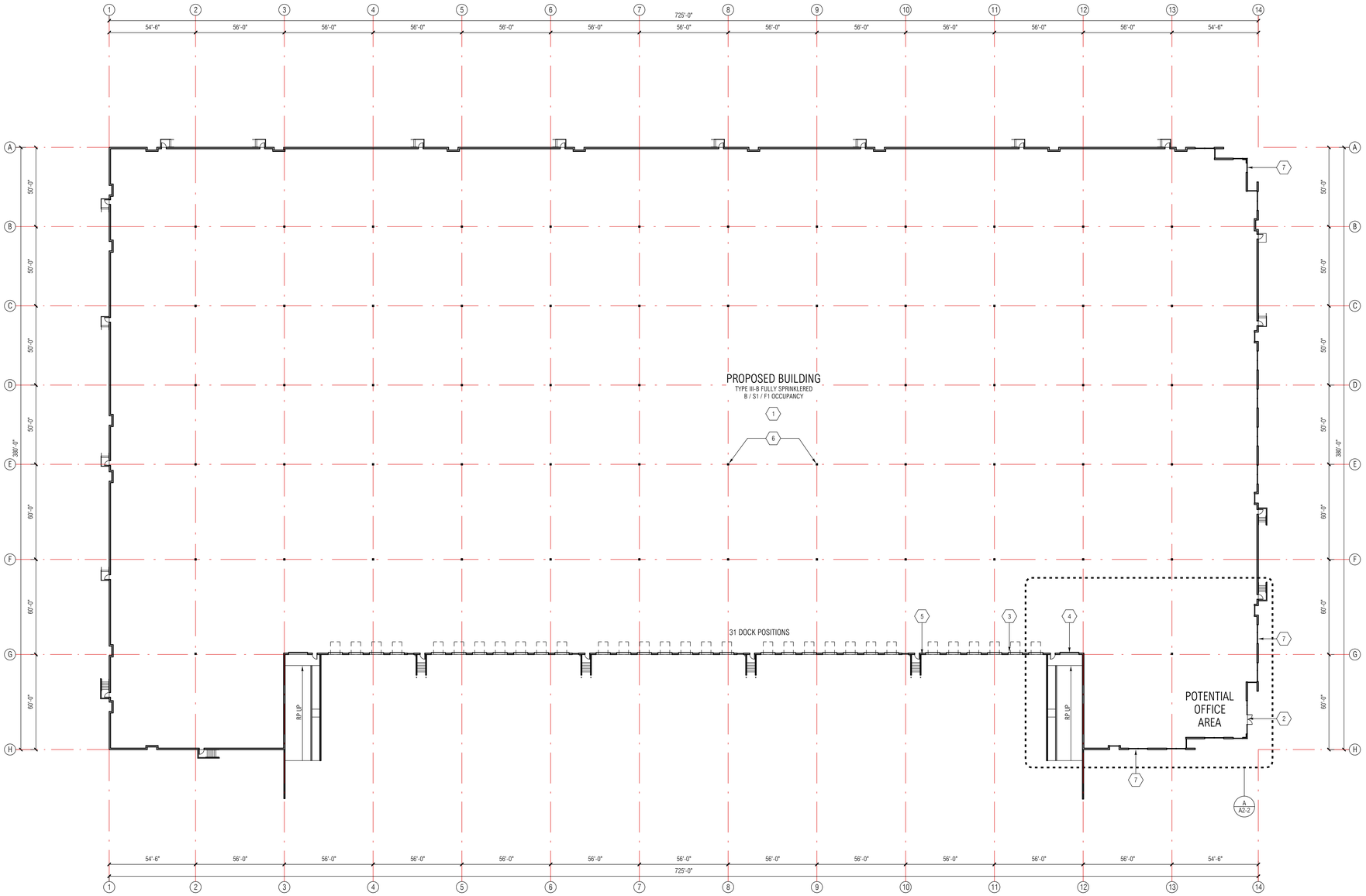
SHEET: 2A3-2P

KEYNOTES

1. PAINTED CONCRETE TILT-UP WAREHOUSE / OFFICE / MANUFACTURING FACILITY.
2. PRIMARY ENTRANCE.
3. PAINTED 9' X 10' DOCK HIGH METAL TRUCK DOORS.
4. PAINTED 12' X 14' GRADE LEVEL METAL TRUCK DOORS.
5. PAINTED 3' X 7' METAL ACCESS MAN DOORS.
6. STRUCTURAL BUILDING COLUMN.
7. STOREFRONT: GLAZING SET IN CLEAR ANODIZED ALUMINUM 2" X 4 1/4" MIN. OFF-SET GLAZING SYSTEM.

CONSTRUCTION NOTES:

1. BUILDING WALLS ARE PAINTED TILT-UP CONCRETE. TYPICAL PARAPET HEIGHT IS 42'-0" TO 50'-0".
2. BUILDING IS PROPOSED AS WAREHOUSE AND OFFICE



BUILDING 3 - FLOOR PLAN

SCALE: 1" = 30'-0"

0' 10' 20' 50' 100'

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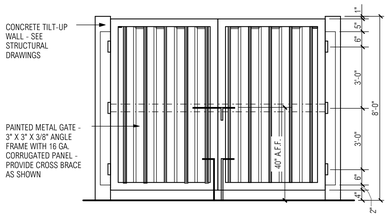
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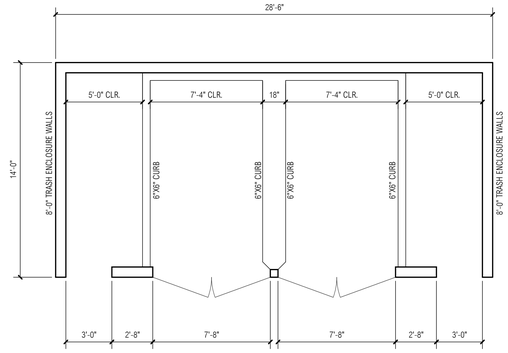
FLOOR PLAN - BUILDING 3

SHEET: 3A2-1P



TRASH ENCLOSURE FRONT ELEVATION

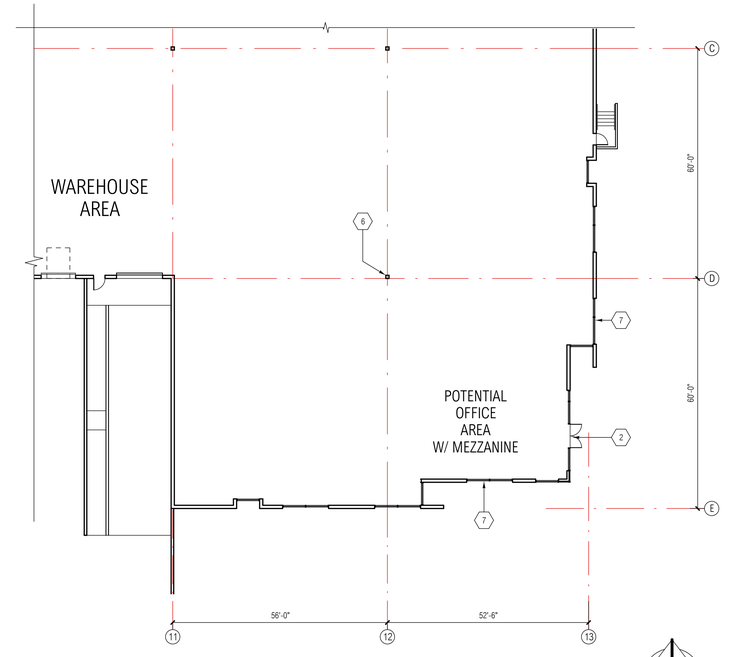
SCALE: 1/4" = 1'-0"



TRASH ENCLOSURE PLAN VIEW

SCALE: 1/4" = 1'-0"

NOTE:
TOTAL OFFICE AREA
NOT TO EXCEED
10,000 SF



ENLARGED SOUTHEAST FLOOR PLAN - BUILDING 3

SCALE: 1/16" = 1'-0"

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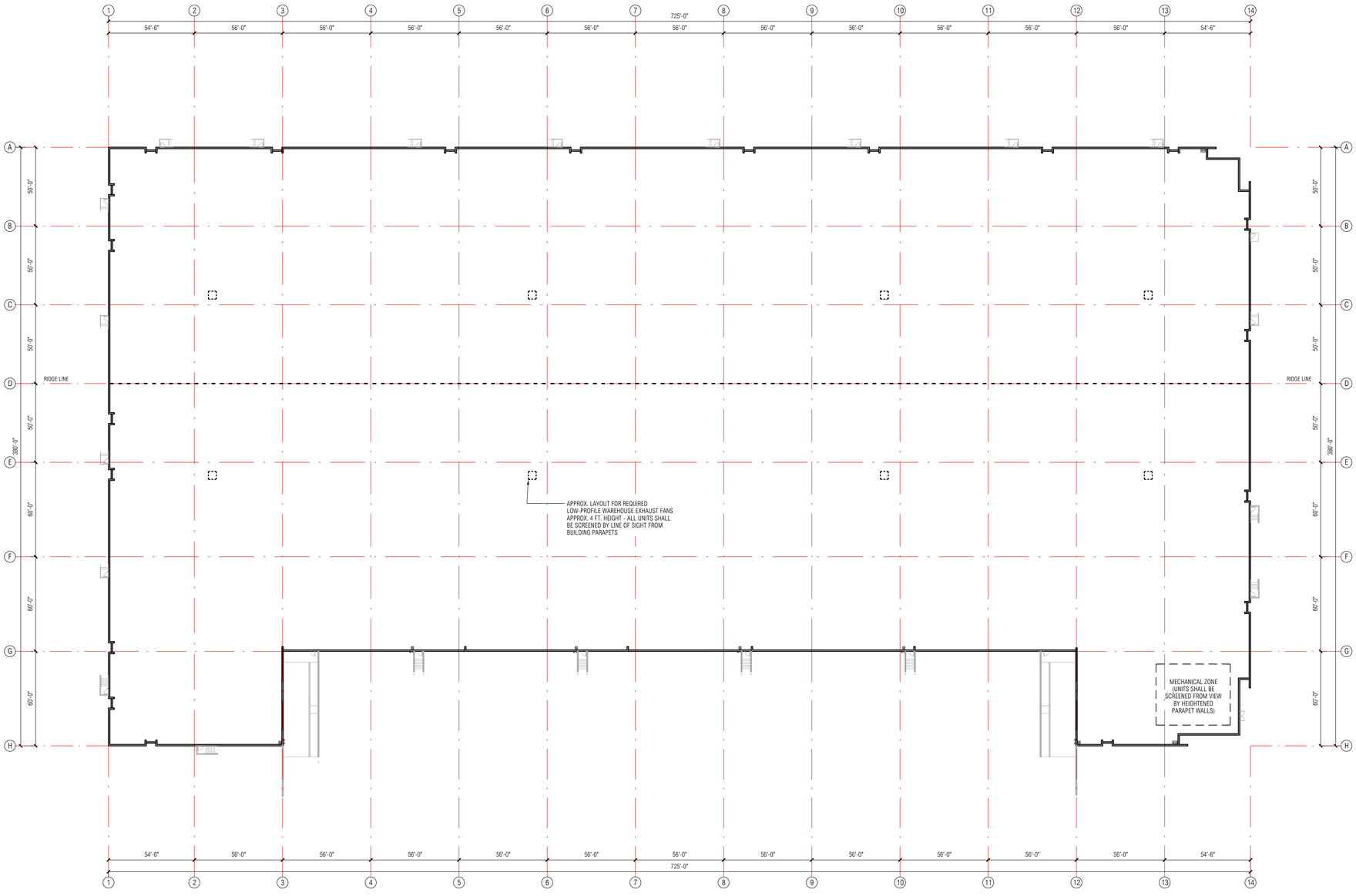
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FLOOR PLAN ENLARGEMENTS - BUILDING 3

SHEET: 3A2-2P



BUILDING 3 - FLOOR PLAN

SCALE: 1" = 30'-0"

0' 10' 20' 50' 100'

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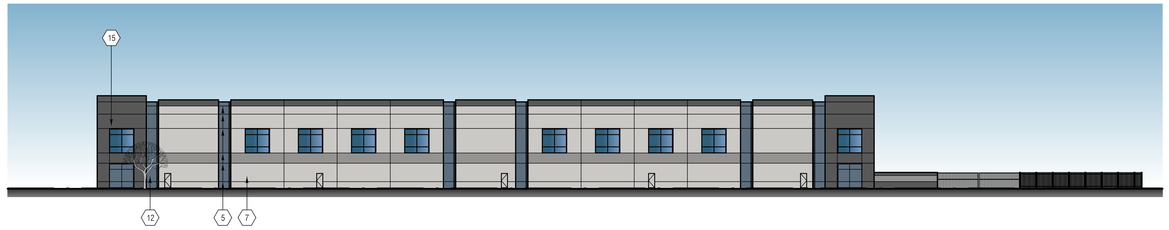
SHEET TITLE
ROOF PLAN - BUILDING 3

SHEET: 3A2-3P



EAST ELEVATION

SCALE: 1" = 30'-0"



WEST ELEVATION

SCALE: 1" = 30'-0"



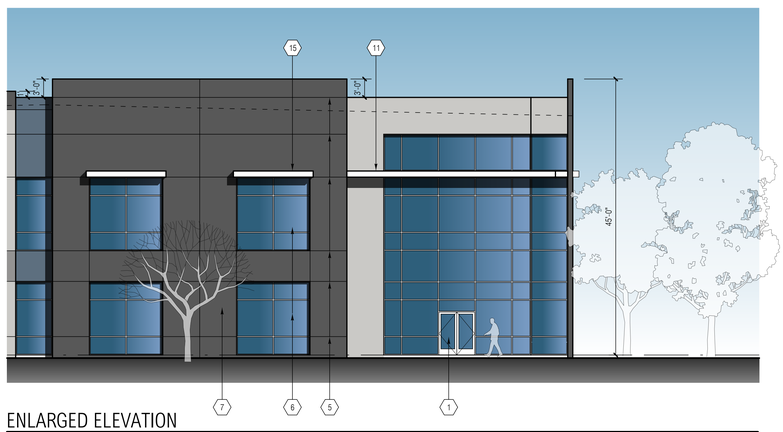
NORTH ELEVATION

SCALE: 1" = 30'-0"



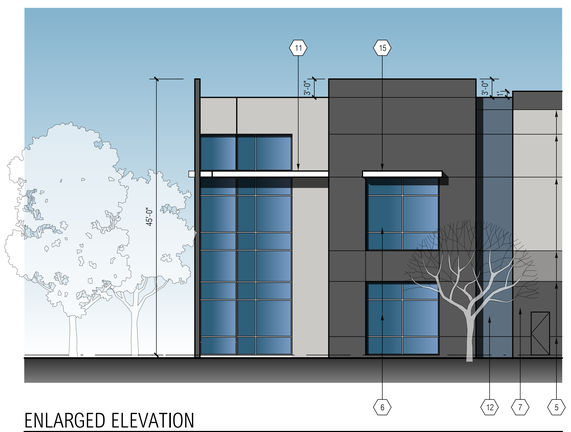
SOUTH ELEVATION

SCALE: 1" = 30'-0"



ENLARGED ELEVATION

SCALE: 1" = 10'-0"



ENLARGED ELEVATION

SCALE: 1" = 10'-0"

KEYNOTES

1. PRIMARY STOREFRONT ENTRANCE.
2. PAINTED 12' WIDE X 15' HIGH LEVEL VERTICAL LIFT TRUCK DOOR.
3. PAINTED 9' WIDE X 10' HIGH VERTICAL LIFT TRUCK DOOR.
4. 3' X 7' PAINTED METAL MAN DOOR.
5. 2" WIDE X 3/4" DEEP HORIZONTAL / VERTICAL REVEAL.
6. BLUE GLASS IN CLEAR ALUMINUM STOREFRONT FRAME SYSTEM.
7. PAINTED CONCRETE TILT-UP EXTERIOR WALL CONSTRUCTION.
8. PROPOSED FUTURE TENANT SIGNAGE LOCATION UNDER SEPARATE SIGN PACKAGE. NOT INCLUDED IN THIS SUBMITTAL PACKAGE.
9. 8' HIGH BLACK TUBULAR STEEL ROLLING GATE W/ VIEW OBSCURING PERFORATED MESH - TYP. AT YARD ENTRANCES.
10. TYP. 8' HIGH PAINTED CONCRETE SCREEN WALL ELEVATION W/ ACCENT REVEALS AND PAINTED ACCENTS TO MATCH BUILDING ARCHITECTURE.
11. ALUMINUM METAL PANEL ENTRY CANOPY.
12. ACCENT PAINTED CONCRETE PANEL.
13. INTERIOR ROOF DRAIN.
14. PAINTED CONCRETE AND STEEL TRELLIS LUNCH CANOPY STRUCTURE.
15. CLEAR ANODIZED ALUMINUM SUNSHADE DEVICE OVER WINDOWS FOR SOLAR CONTROL.

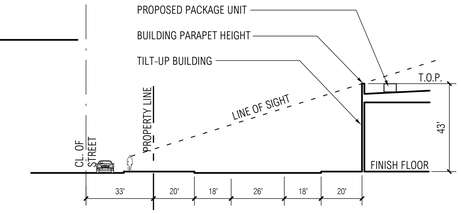
FINISH SCHEDULE:

	1. FIELD COLOR -	SHERWIN WILLIAMS - ZIRCON SW7667
	2. LIGHT ACCENT COLOR -	SHERWIN WILLIAMS - GRAY SHINGLE SW7670
	3. DARK ACCENT COLOR -	SHERWIN WILLIAMS - PEPPERCORN SW7674
	4. BLUE ACCENT COLOR -	SHERWIN WILLIAMS - DISTANCE SW6243
	6. GLASS:	PPG SOLARCOOL PACIFICA



SIMILAR SITE LIGHTING STYLE 1

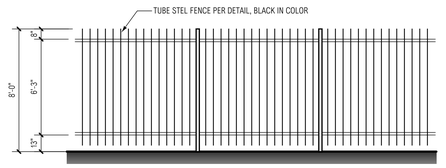
SCALE: N.T.S. MAX TOP OF LIGHT AT 25'-0"



TYPICAL EQUIPMENT SCREEN LINE OF SIGHT 2

SCALE 1" = 30'-0"

NOTE: LINE OF SIGHT TAKEN FROM 6'-0" ABOVE FINISH GRADE



TYPICAL TUBE STEEL FENCE ELEVATION

SCALE: 1/4" = 1'-0"

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EXTERIOR ELEVATIONS - BUILDING 2

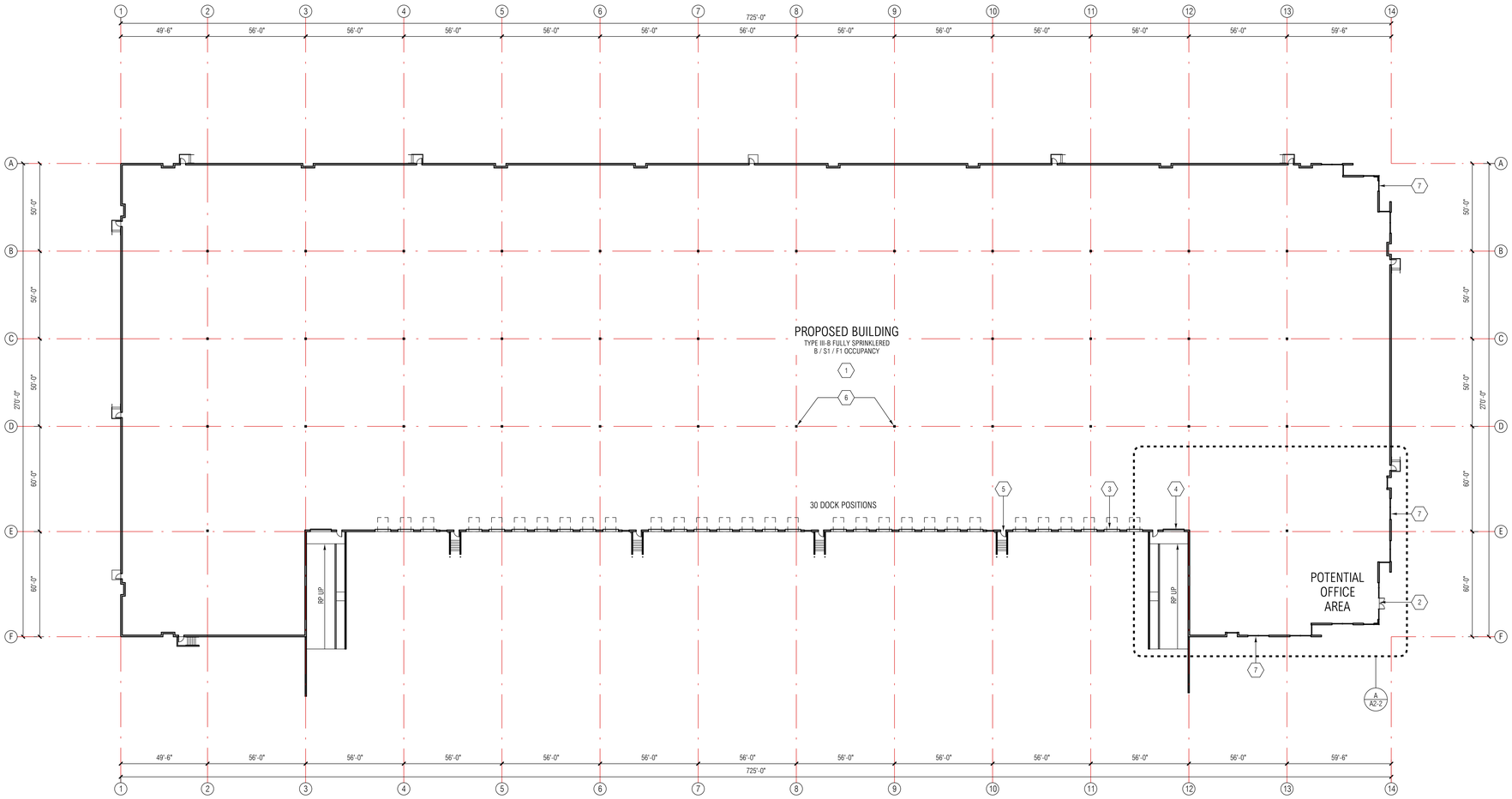
SHEET: 3A3-1P

KEYNOTES

1. PAINTED CONCRETE TILT-UP WAREHOUSE / OFFICE / MANUFACTURING FACILITY.
2. PRIMARY ENTRANCE.
3. PAINTED 9' X 10' DOCK HIGH METAL TRUCK DOORS.
4. PAINTED 12' X 14' GRADE LEVEL METAL TRUCK DOORS.
5. PAINTED 3' X 7' METAL ACCESS MAN DOORS.
6. STRUCTURAL BUILDING COLUMN.
7. STOREFRONT: GLAZING SET IN CLEAR ANODIZED ALUMINUM 2" X 4 1/4" MIN. OFF-SET GLAZING SYSTEM.

CONSTRUCTION NOTES:

1. BUILDING WALLS ARE PAINTED TILT-UP CONCRETE. TYPICAL PARAPET HEIGHT IS 42'-0" TO 50'-0".
2. BUILDING IS PROPOSED AS WAREHOUSE AND OFFICE



BUILDING 4 - FLOOR PLAN

SCALE: 1" = 30'-0"

0' 10' 20' 50' 100'

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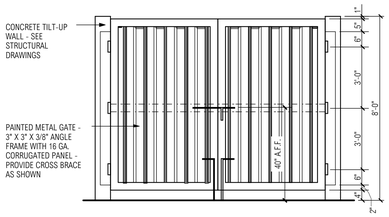
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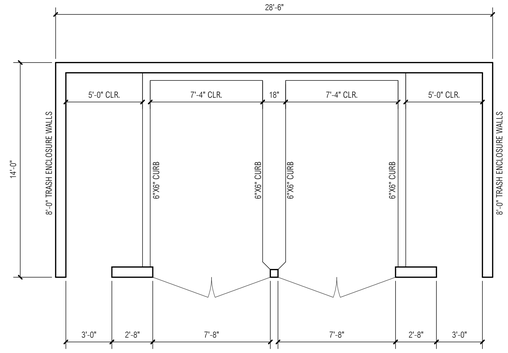
FLOOR PLAN - BUILDING 4

SHEET: 4A2-1P



TRASH ENCLOSURE FRONT ELEVATION

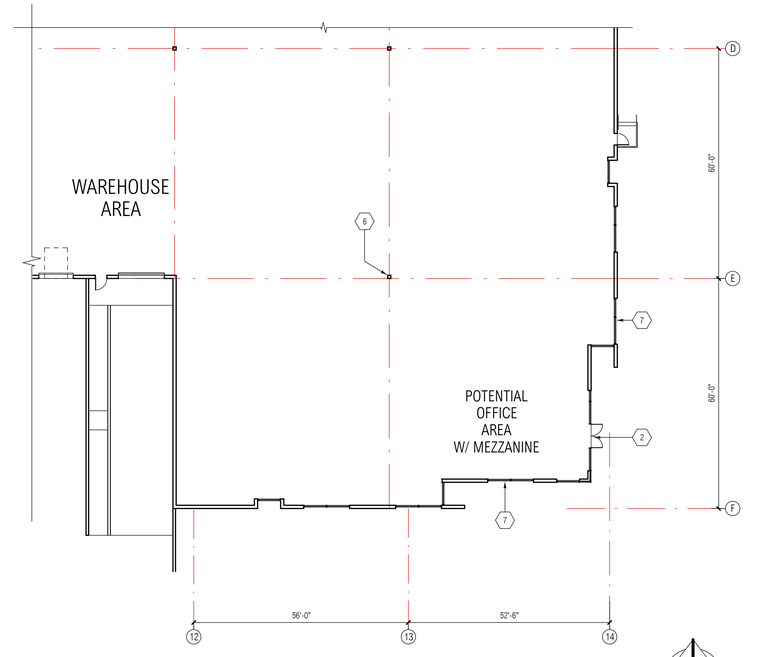
SCALE: 1/4" = 1'-0"



TRASH ENCLOSURE PLAN VIEW

SCALE: 1/4" = 1'-0"

NOTE:
TOTAL OFFICE AREA
NOT TO EXCEED
10,000 SF



ENLARGED SOUTHEAST FLOOR PLAN - BUILDING 4

SCALE: 1/16" = 1'-0"

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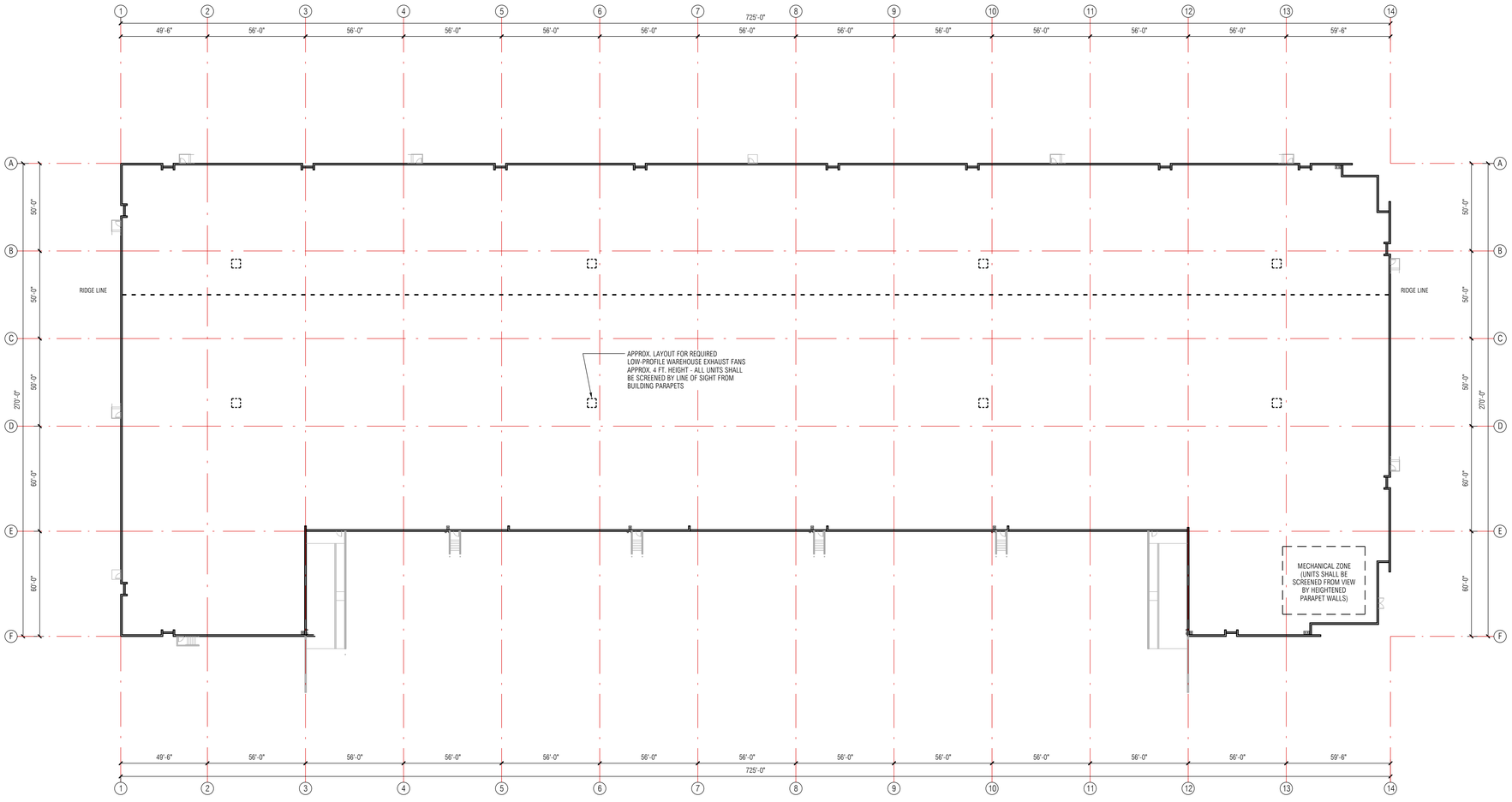
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FLOOR PLAN ENLARGEMENTS - BUILDING 4

SHEET: 4A2-2P



BUILDING 4 - ROOF PLAN

SCALE: 1" = 30'-0"

0' 10' 20' 50' 100'

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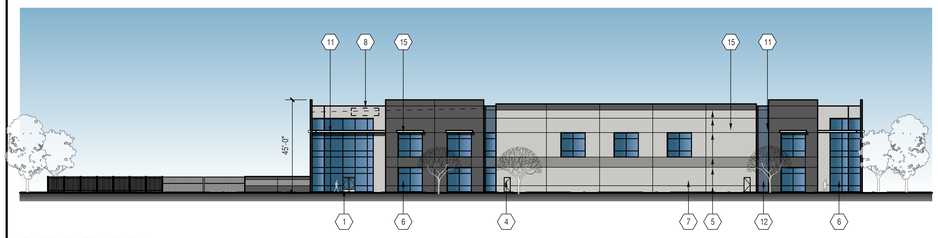
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CHK'D BY:	JH

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SHEET TITLE

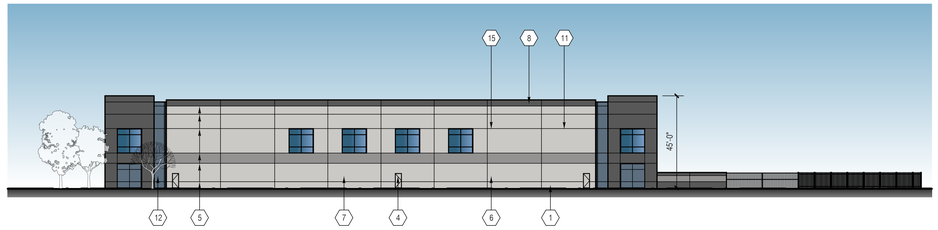
ROOF PLAN - BUILDING 4

SHEET: 4A2-3P



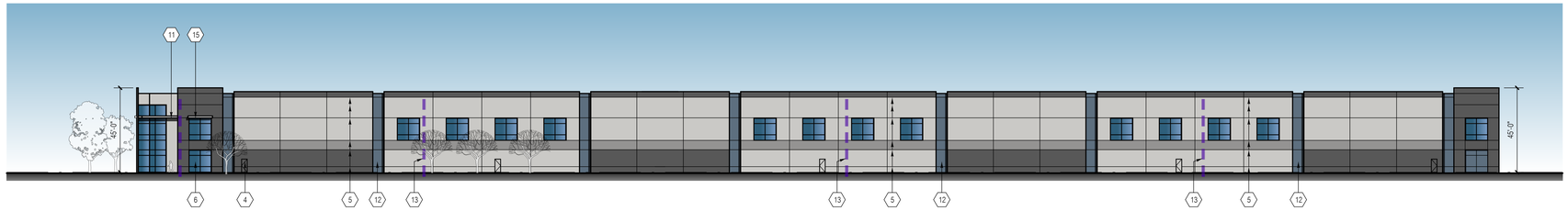
EAST ELEVATION

SCALE: 1" = 30'-0"



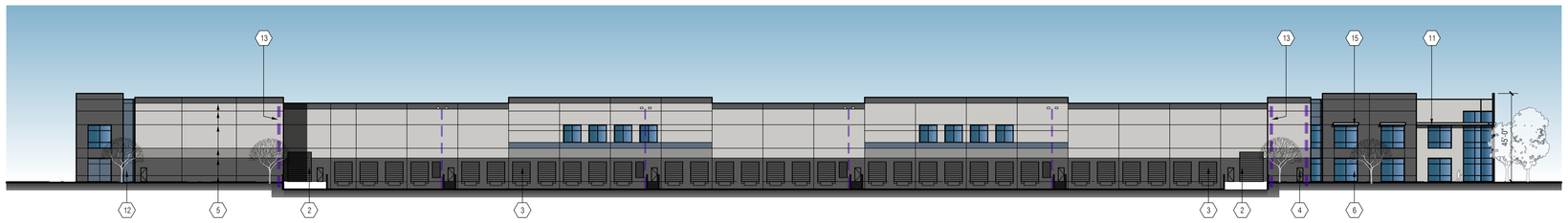
WEST ELEVATION

SCALE: 1" = 30'-0"



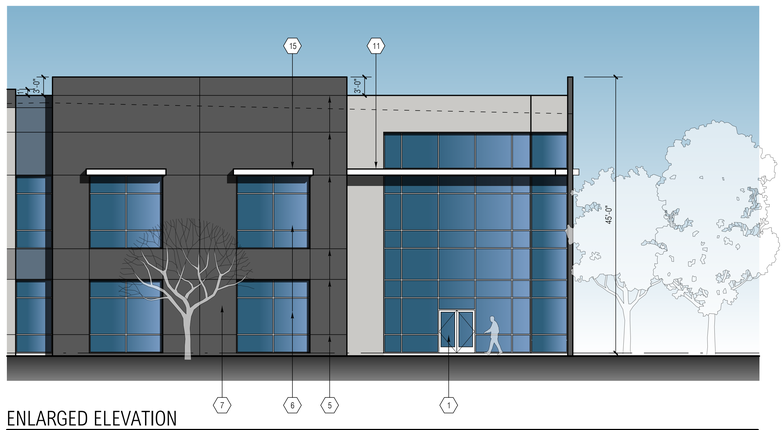
NORTH ELEVATION

SCALE: 1" = 30'-0"



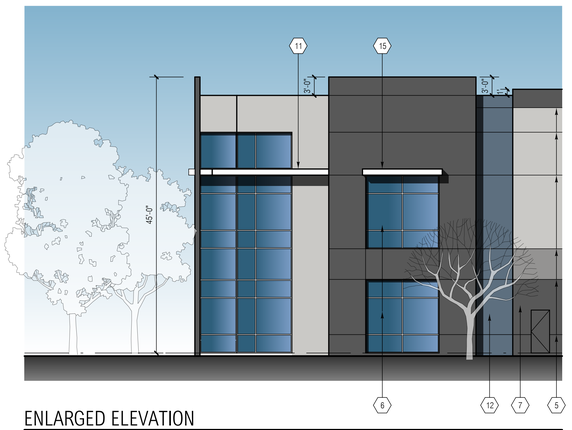
SOUTH ELEVATION

SCALE: 1" = 30'-0"



ENLARGED ELEVATION

SCALE: 1" = 10'-0"



ENLARGED ELEVATION

SCALE: 1" = 10'-0"

KEYNOTES

1. PRIMARY STOREFRONT ENTRANCE.
2. PAINTED 12' WIDE X 15' HIGH LEVEL VERTICAL LIFT TRUCK DOOR.
3. PAINTED 9' WIDE X 10' HIGH VERTICAL LIFT TRUCK DOOR.
4. 3' X 7' PAINTED METAL MAN DOOR.
5. 2" WIDE X 3/4" DEEP HORIZONTAL / VERTICAL REVEAL.
6. BLUE GLASS IN CLEAR ALUMINUM STOREFRONT FRAME SYSTEM.
7. PAINTED CONCRETE TILT-UP EXTERIOR WALL CONSTRUCTION.
8. PROPOSED FUTURE TENANT SIGNAGE LOCATION UNDER SEPARATE SIGN PACKAGE. NOT INCLUDED IN THIS SUBMITTAL PACKAGE.
9. 8' HIGH BLACK TUBULAR STEEL ROLLING GATE W/ VIEW OBSCURING PERFORATED MESH - TYP. AT YARD ENTRANCES.
10. TYP. 8' HIGH PAINTED CONCRETE SCREEN WALL ELEVATION W/ ACCENT REVEALS AND PAINTED ACCENTS TO MATCH BUILDING ARCHITECTURE.
11. ALUMINUM METAL PANEL ENTRY CANOPY.
12. ACCENT PAINTED CONCRETE PANEL.
13. INTERIOR ROOF DRAIN.
14. PAINTED CONCRETE AND STEEL TRELLIS LUNCH CANOPY STRUCTURE.
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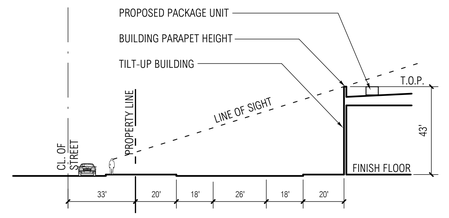
FINISH SCHEDULE:

	1. FIELD COLOR -	SHERWIN WILLIAMS - ZIRCON SW7667
	2. LIGHT ACCENT COLOR -	SHERWIN WILLIAMS - GRAY SHINGLE SW7670
	3. DARK ACCENT COLOR -	SHERWIN WILLIAMS - PEPPERCORN SW7674
	4. BLUE ACCENT COLOR -	SHERWIN WILLIAMS - DISTANCE SW6243
	6. GLASS:	PPG SOLARCOOL PACIFICA



SIMILAR SITE LIGHTING STYLE

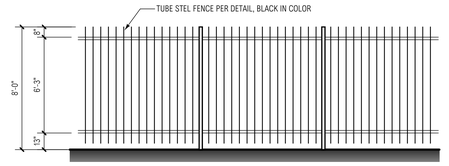
SCALE: N.T.S. MAX TOP OF LIGHT AT 25'-0" (1)



TYPICAL EQUIPMENT SCREEN LINE OF SIGHT (2)

SCALE 1" = 30'-0"

NOTE: LINE OF SIGHT TAKEN FROM 6'-0" ABOVE FINISH GRADE



TYPICAL TUBE STEEL FENCE ELEVATION

SCALE: 1/4" = 1'-0"

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EXTERIOR ELEVATIONS - BUILDING 4

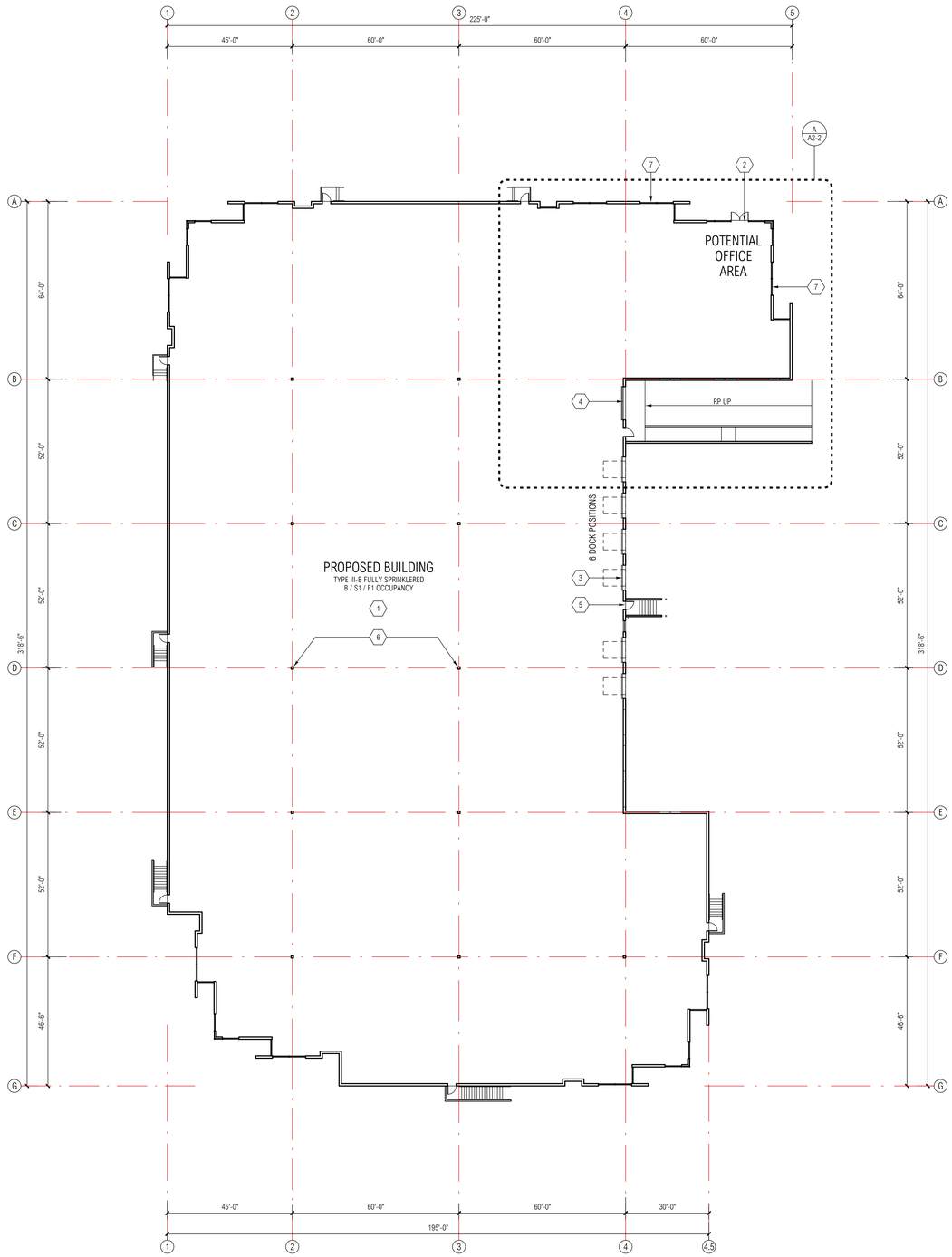
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KEYNOTES (XXX)

1. PAINTED CONCRETE TILT-UP WAREHOUSE / OFFICE / MANUFACTURING FACILITY.
2. PRIMARY ENTRANCE.
3. PAINTED 9' X 10' DOCK HIGH METAL TRUCK DOORS.
4. PAINTED 12' X 14' GRADE LEVEL METAL TRUCK DOORS.
5. PAINTED 3' X 7' METAL ACCESS MAN DOORS.
6. STRUCTURAL BUILDING COLUMN.
7. STOREFRONT: GLAZING SET IN CLEAR ANODIZED ALUMINUM 2" X 4 1/4" MIN. OFF-SET GLAZING SYSTEM.

CONSTRUCTION NOTES:

1. BUILDING WALLS ARE PAINTED TILT-UP CONCRETE. TYPICAL PARAPET HEIGHT IS 42'-0" TO 50'-0".
2. BUILDING IS PROPOSED AS WAREHOUSE AND OFFICE



BUILDING 5 - FLOOR PLAN

SCALE: 1" = 20'-0"

0' 5' 10' 20' 50'

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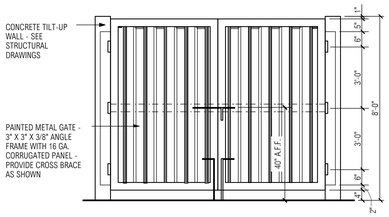
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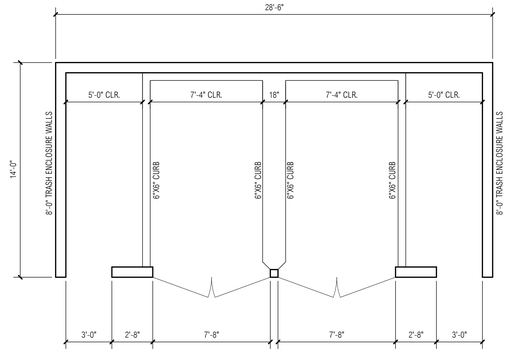
FLOOR PLAN - BUILDING 5

SHEET: 5A2-1P



TRASH ENCLOSURE FRONT ELEVATION

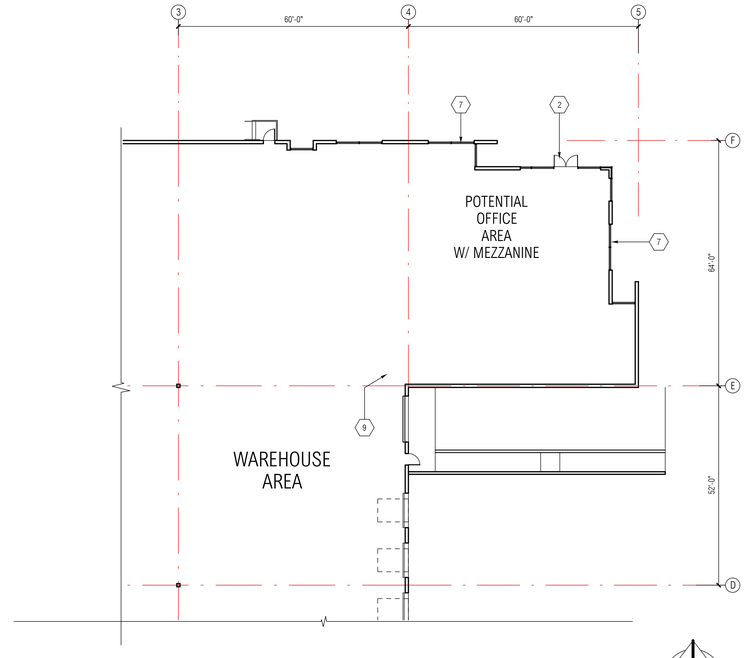
SCALE: 1/4" = 1'-0"



TRASH ENCLOSURE PLAN VIEW

SCALE: 1/4" = 1'-0"

NOTE:
TOTAL OFFICE AREA
NOT TO EXCEED
10,000 SF



ENLARGED SOUTHEAST FLOOR PLAN - BUILDING 5

SCALE: 1/16" = 1'-0"

A

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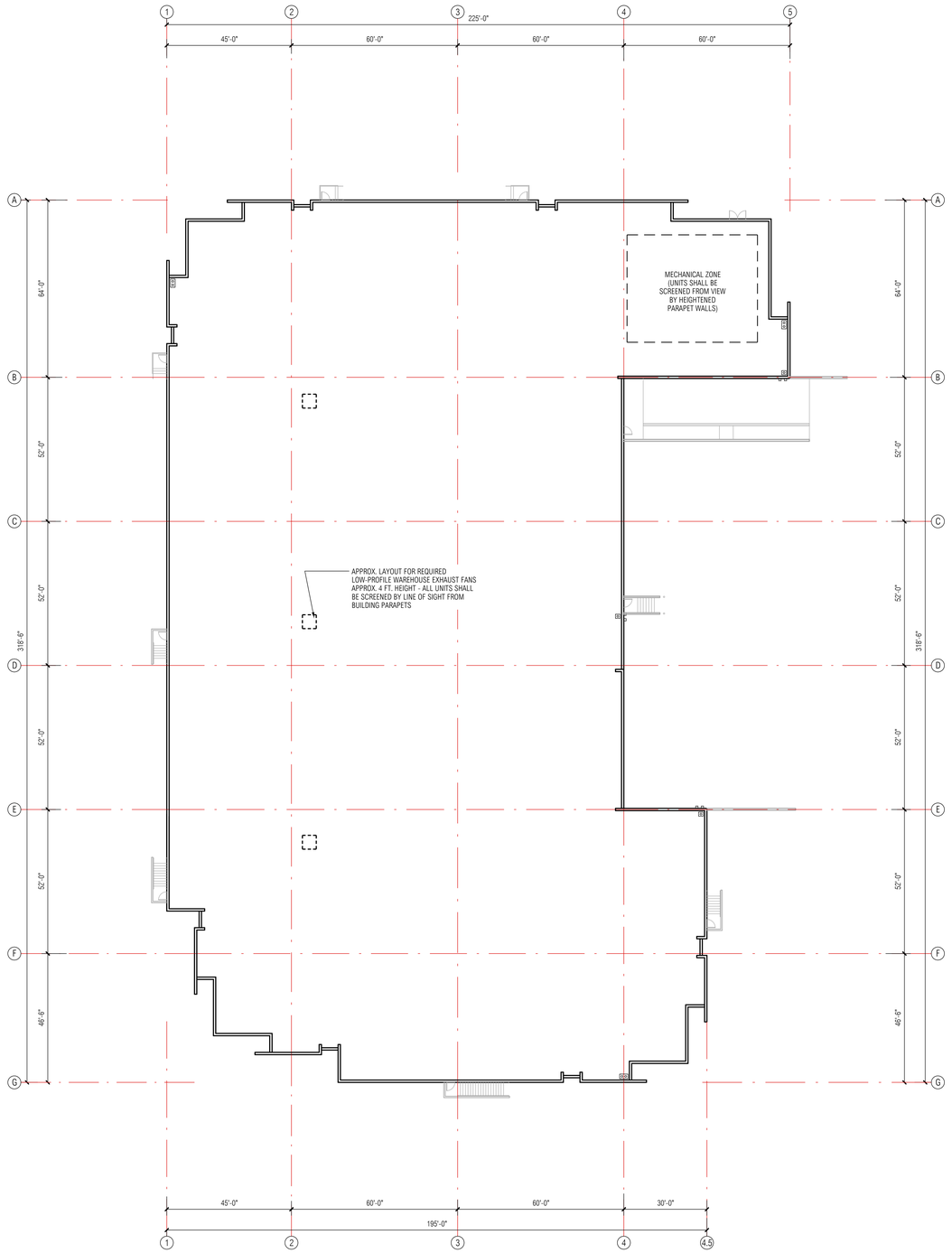
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FLOOR PLAN ENLARGEMENTS - BUILDING 5

SHEET: 5A2-2P



BUILDING 5 - ROOF PLAN

SCALE: 1" = 20'-0"

0' 5' 10' 20' 50'

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ROOF PLAN - BUILDING 5

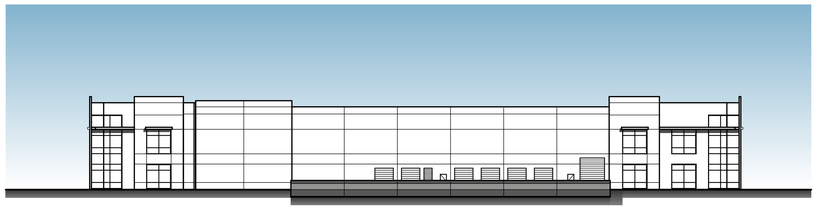
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KEYNOTES (00)

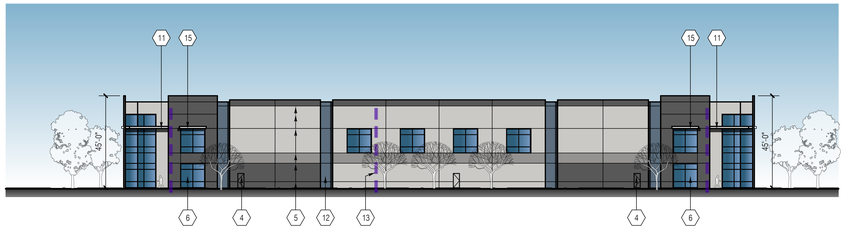
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2. PAINTED 12' WIDE X 15' HIGH LEVEL VERTICAL LIFT TRUCK DOOR.
3. PAINTED 9' WIDE X 10' HIGH VERTICAL LIFT TRUCK DOOR.
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15. CLEAR ANODIZED ALUMINUM SUNSHADE DEVICE OVER WINDOWS FOR SOLAR CONTROL.

FINISH SCHEDULE:

	1. FIELD COLOR -	SHERWIN WILLIAMS - ZIRCON SW7667
	2. LIGHT ACCENT COLOR -	SHERWIN WILLIAMS - GRAY SHINGLE SW7670
	3. DARK ACCENT COLOR -	SHERWIN WILLIAMS - PEPPERCORN SW7674
	4. BLUE ACCENT COLOR -	SHERWIN WILLIAMS - DISTANCE SW6243
	6. GLASS:	PPG SOLARCOOL PACIFICA



SOUTH SCREEN WALL ELEVATION
SCALE: 1" = 30'-0"



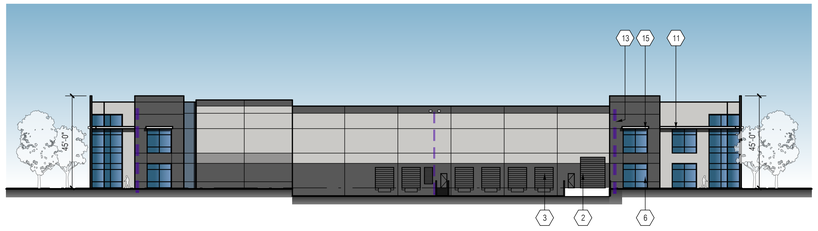
WEST ELEVATION
SCALE: 1" = 30'-0"



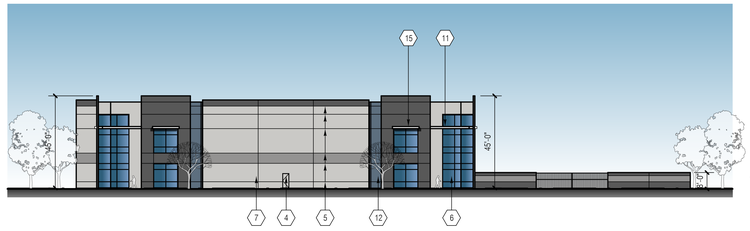
NORTH ELEVATION
SCALE: 1" = 30'-0"



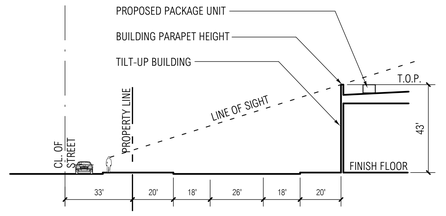
SIMILAR SITE LIGHTING STYLE (1)
SCALE: N.T.S. MAX TOP OF LIGHT AT 25'-0"



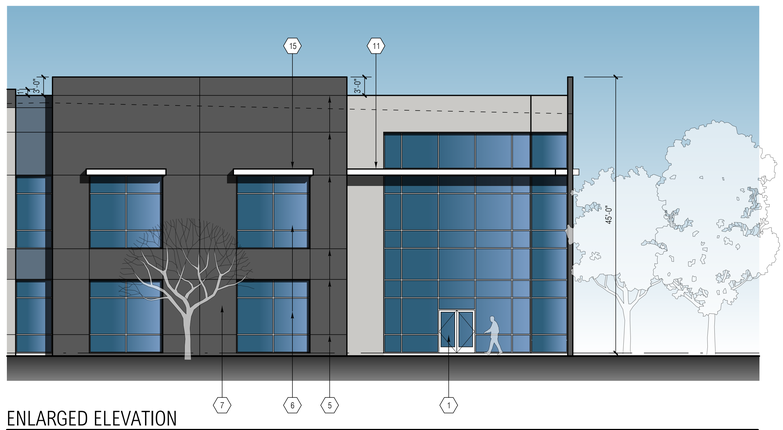
EAST ELEVATION
SCALE: 1" = 30'-0"



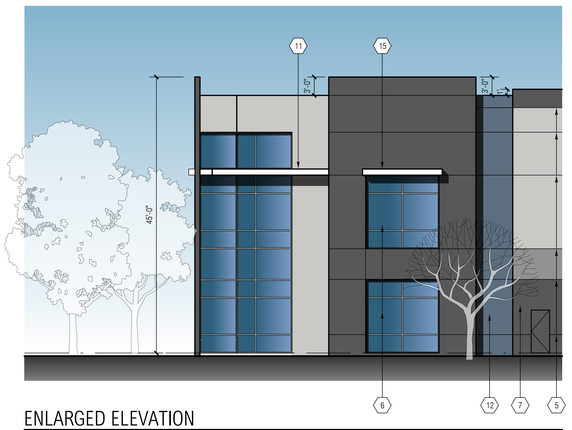
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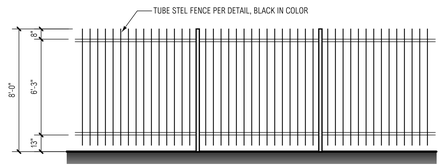
TYPICAL EQUIPMENT SCREEN LINE OF SIGHT (2)
SCALE 1" = 30'-0"
NOTE: LINE OF SIGHT TAKEN FROM 6'-0" ABOVE FINISH GRADE



ENLARGED ELEVATION
SCALE: 1" = 10'-0"



ENLARGED ELEVATION
SCALE: 1" = 10'-0"



TYPICAL TUBE STEEL FENCE ELEVATION
SCALE: 1/4" = 1'-0"

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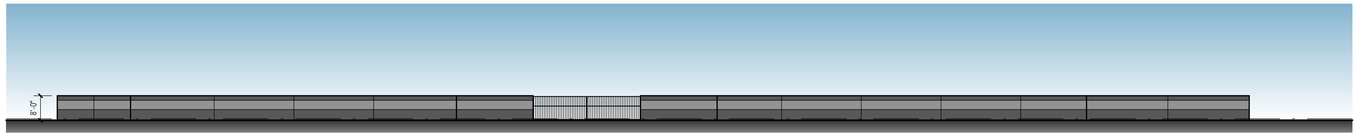
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EXTERIOR ELEVATIONS - BUILDING 5

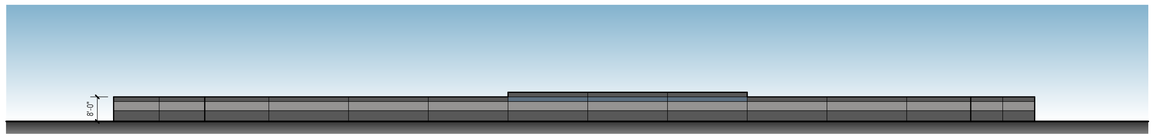
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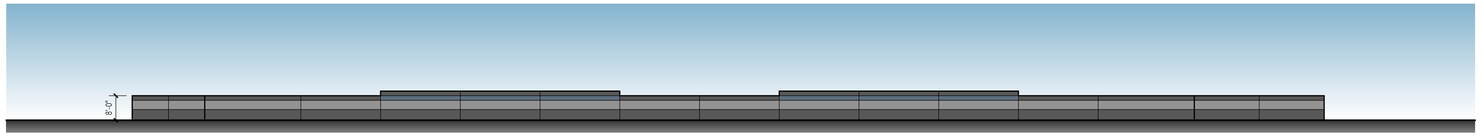
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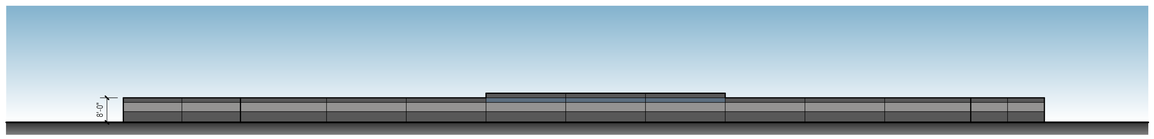
WEST ELEVATION
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SOUTH ELEVATION
SCALE: 1" = 20'-0"



EAST ELEVATION
SCALE: 1" = 20'-0"



NORTH ELEVATION
SCALE: 1" = 20'-0"

RGA
Office of Architectural Design
15231 Alton Parkway, Suite 100
Irvine, CA 92618
T 949-341-0920
FX 949-341-0922

CONSULTANT

PROFESSIONAL SEALS

ETIWANDA AVENUE
RANCHO CUCAMONGA

ETIWANDA AVENUE
CITY OF RANCHO CUCAMONGA,
CALIFORNIA

APPLICANT:
BTC III ETIWANDA COMMERCE CENTER
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NEWPORT BEACH, CA 92660
TEL: 949-892-4911
CONTACT: CHRIS SANFORD
csanford@aresmgmt.com

OWNER:
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NEWPORT BEACH, CA 92660
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PH: 949-892-4911

MARK	DATE	DESCRIPTION
SD		
SD	10/21/21	SCHEMATIC DESIGN

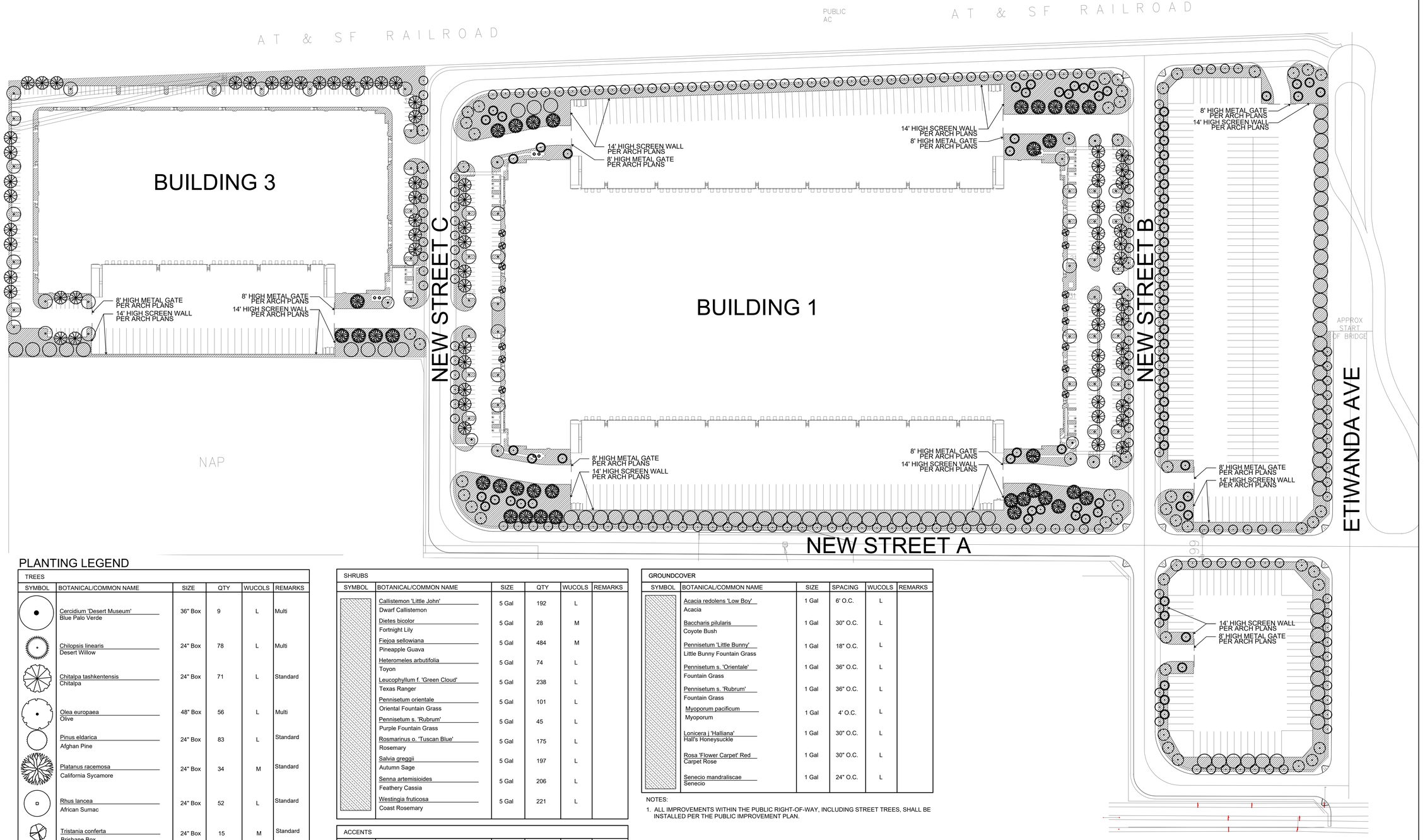
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OWNER PROJECT NO:	00000.00
CAD FILE NAME:	19135-00-5A3-2P
DRAWN BY:	JH
CHK'D BY:	JH

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SHEET TITLE

EXTERIOR ELEVATIONS - BUILDING 5
PHASE I SCREEN WALLS

SHEET: 5A3-2P



PLANTING LEGEND

TREES

SYMBOL	BOTANICAL/COMMON NAME	SIZE	QTY	WUCOLS	REMARKS
	Cercidium 'Desert Museum' Blue Palo Verde	36" Box	9	L	Multi
	Chilopsis linearis Desert Willow	24" Box	78	L	Multi
	Chitalpa tashkentensis Chitalpa	24" Box	71	L	Standard
	Olea europaea Olive	48" Box	56	L	Multi
	Pinus eldarica Afghan Pine	24" Box	83	L	Standard
	Platanus racemosa California Sycamore	24" Box	34	M	Standard
	Rhus lancea African Sumac	24" Box	52	L	Standard
	Tristania conferta Brisbane Box	24" Box	15	M	Standard
	Street Tree	15 Gal	205	L	

SHRUBS

SYMBOL	BOTANICAL/COMMON NAME	SIZE	QTY	WUCOLS	REMARKS
	Callistemon 'Little John' Dwarf Callistemon	5 Gal	192	L	
	Dietes bicolor Fortnight Lily	5 Gal	28	M	
	Feijoa sellowiana Pineapple Guava	5 Gal	484	M	
	Heteromeles arbutifolia Toyon	5 Gal	74	L	
	Leucophyllum f. 'Green Cloud' Texas Ranger	5 Gal	238	L	
	Pennisetum orientale Oriental Fountain Grass	5 Gal	101	L	
	Pennisetum s. 'Rubrum' Purple Fountain Grass	5 Gal	45	L	
	Rosmarinus o. 'Tuscan Blue' Rosemary	5 Gal	175	L	
	Salvia greggii Autumn Sage	5 Gal	197	L	
	Senna artemisioides Feathery Cassia	5 Gal	206	L	
	Westingia fruticosa Coast Rosemary	5 Gal	221	L	

ACCENTS

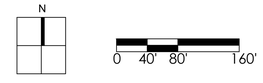
SYMBOL	BOTANICAL/COMMON NAME	SIZE	QTY	WUCOLS	REMARKS
	Agave americana Century Plant	5 Gal	18	L	
	Echiveria 'Afterglow Echiveria	1 Gal	80	L	
	Agave villmoriniana Agave	5 Gal	3	L	
	Dasylerion wheeleri Desert Spoon	5 Gal	4	L	
	Hesperaloe parviflora Red Yucca	5 Gal	31	L	

GROUNDCOVER

SYMBOL	BOTANICAL/COMMON NAME	SIZE	SPACING	WUCOLS	REMARKS
	Acacia redolens 'Low Boy' Acacia	1 Gal	6' O.C.	L	
	Baccharis pilularis Coyote Bush	1 Gal	30" O.C.	L	
	Pennisetum 'Little Bunny' Little Bunny Fountain Grass	1 Gal	18" O.C.	L	
	Pennisetum s. 'Orientale' Fountain Grass	1 Gal	36" O.C.	L	
	Pennisetum s. 'Rubrum' Fountain Grass	1 Gal	36" O.C.	L	
	Myoporum pacificum Myoporum	1 Gal	4' O.C.	L	
	Lonicera j 'Halliana' Hall's Honeysuckle	1 Gal	30" O.C.	L	
	Rosa 'Flower Carpet' Red Carpet Rose	1 Gal	30" O.C.	L	
	Senecio mandraliscae Senecio	1 Gal	24" O.C.	L	

NOTES:

1. ALL IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING STREET TREES, SHALL BE INSTALLED PER THE PUBLIC IMPROVEMENT PLAN.



PHASE 1

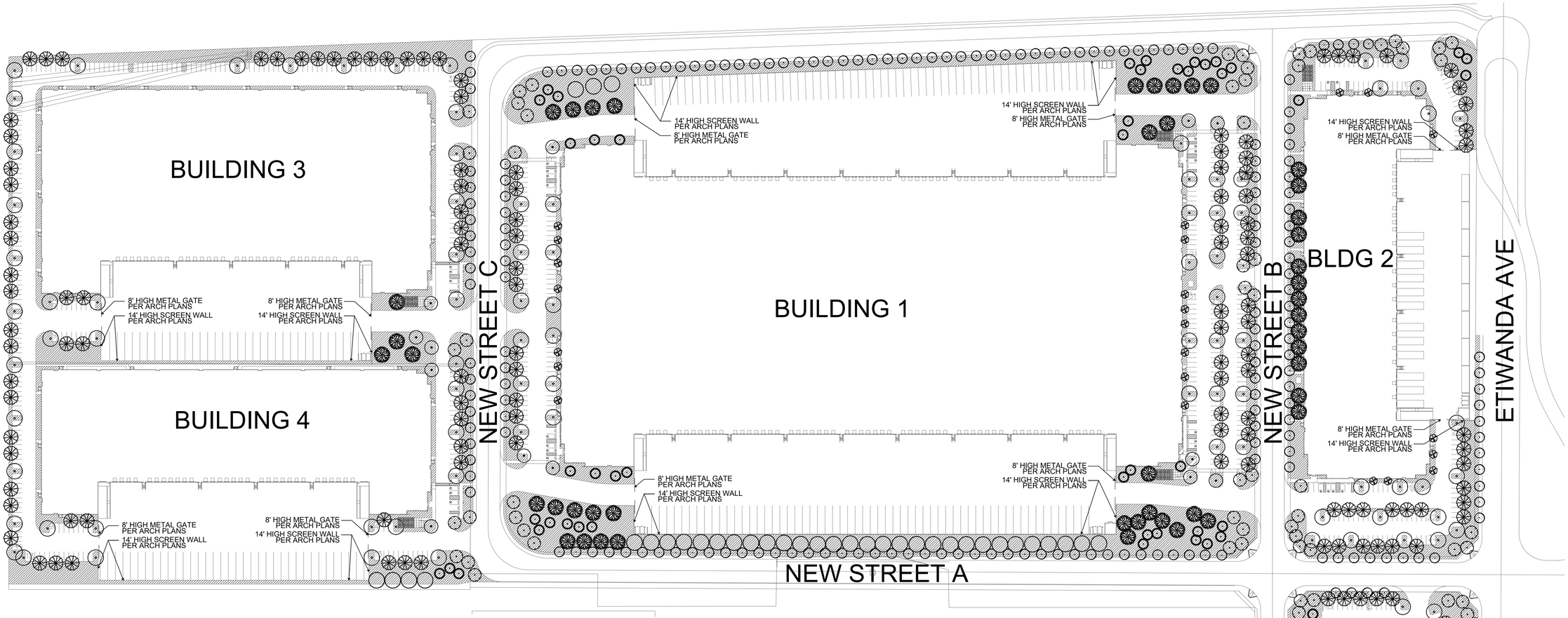
Etiwanda Ave

21-111
10.22.21
02.14.23
05.12.23

Black Creek Group

Rancho Cucamonga, California

HUNTER LANDSCAPE
711 FEE ANA STREET PLACENTIA, CA 92870
714.986.2400 FAX 714.986.2408



PLANTING LEGEND

TREES

SYMBOL	BOTANICAL/COMMON NAME	SIZE	QTY	WUCOLS	REMARKS
	Cercidium 'Desert Museum' Blue Palo Verde	36" Box	13	L	Multi
	Chilopsis linearis Desert Willow	24" Box	60	L	Multi
	Chitalpa tashkentensis Chitalpa	24" Box	131	L	Standard
	Olea europaea Olive	48" Box	65	L	Multi
	Pinus eldarica Afghan Pine	24" Box	41	L	Standard
	Platanus racemosa California Sycamore	24" Box	46	M	Standard
	Rhus lancea African Sumac	24" Box	96	L	Standard
	Tristania conferta Brisbane Box	24" Box	27	M	Standard
	Street Tree	15 Gal	214	L	

SHRUBS

SYMBOL	BOTANICAL/COMMON NAME	SIZE	QTY	WUCOLS	REMARKS
	Callistemon 'Little John' Dwarf Callistemon	5 Gal	192	L	
	Dietes bicolor Fortnight Lily	5 Gal	28	M	
	Feijoa sellowiana Pineapple Guava	5 Gal	484	M	
	Heteromeles arbutifolia Toyon	5 Gal	74	L	
	Leucophyllum f. 'Green Cloud' Texas Ranger	5 Gal	238	L	
	Pennisetum orientale Oriental Fountain Grass	5 Gal	101	L	
	Pennisetum s. 'Rubrum' Purple Fountain Grass	5 Gal	45	L	
	Rosmarinus o. 'Tuscan Blue' Rosemary	5 Gal	175	L	
	Salvia greggii Autumn Sage	5 Gal	197	L	
	Senna artemisioides Feathery Cassia	5 Gal	206	L	
	Westingia fruticosa Coast Rosemary	5 Gal	221	L	

ACCENTS

SYMBOL	BOTANICAL/COMMON NAME	SIZE	QTY	WUCOLS	REMARKS
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	Echiveria 'Afterglow Echiveria	1 Gal	80	L	
	Agave villmoriniana Agave	5 Gal	3	L	
	Dasylerion wheeleri Desert Spoon	5 Gal	4	L	
	Hesperaloe parviflora Red Yucca	5 Gal	31	L	

GROUNDCOVER

SYMBOL	BOTANICAL/COMMON NAME	SIZE	SPACING	WUCOLS	REMARKS
	Acacia redolens 'Low Boy' Acacia	1 Gal	6' O.C.	L	
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	Pennisetum 'Little Bunny' Little Bunny Fountain Grass	1 Gal	18" O.C.	L	
	Pennisetum s. 'Orientale' Fountain Grass	1 Gal	36" O.C.	L	
	Pennisetum s. 'Rubrum' Fountain Grass	1 Gal	36" O.C.	L	
	Myoporum pacificum Myoporum	1 Gal	4' O.C.	L	
	Lonicera j 'Halliana' Hall's Honeysuckle	1 Gal	30" O.C.	L	
	Rosa 'Flower Carpet' Red Carpet Rose	1 Gal	30" O.C.	L	
	Senecio mandraliscae Senecio	1 Gal	24" O.C.	L	

NOTES:

1. ALL IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING STREET TREES, SHALL BE INSTALLED PER THE PUBLIC IMPROVEMENT PLAN.

PHASE 2

N

0 40' 80' 160'

Etiwanda Ave

21-111
10.22.21
02.14.23
05.12.23

Black Creek Group

Rancho Cucamonga, California

HUNTER LANDSCAPE
711 FEE ANA STREET PLACENTIA, CA 92870
714.986.2400 FAX 714.986.2408

DRAFT

MEMORANDUM

TO: Carlos Palafox & Christopher Sanford, BTC III Acquisitions, LLC

FROM: Patrick A. Gibson, P.E., PTOE
Eugene Tang, AICP

DATE: August 12, 2022

RE: Transportation Analysis and Evacuation Evaluation for the Etiwanda Avenue and Arrow Route Warehouse Projects
Rancho Cucamonga, California **Ref:** J1940

Gibson Transportation Consulting, Inc. (GTC) prepared a transportation analysis for a warehouse project (Project) situated on multiple parcels (Project Sites), generally located near the intersections of Etiwanda Avenue & Arrow Route and Etiwanda Avenue & Napa Street in the City of Rancho Cucamonga (City), California. The methodology and assumptions used in this analysis were established in conjunction with the City. This memorandum summarizes our analysis and also provides an evaluation of evacuation routes due to the Project's location and proposed land uses.

BACKGROUND

The City has identified transportation improvements in the Southeast Area (SEA) of the City, the general area of the Project Sites, as part of its General Plan. The SEA, which is comprised of existing industrial, logistics, and warehouse uses, is planned for a future potential development of over six million new square feet (sf) of floor area.

PROJECT DESCRIPTION

BTC III Acquisitions, LLC (Applicant) has proposed two development concepts on the Project Sites:

- Etiwanda Site (also known as the GenOn Site) – A 64-acre site located on the west side of Etiwanda Avenue between the Burlington Northern Santa Fe (BNSF) Railroad tracks on the north and Napa Street on the south. A total of 1,266,019 sf of warehouse space is proposed on this site within five buildings:
    - Building 1: 669,237 sf
    - Building 2: 127,343 sf
    - Building 3: 219,750 sf
    - Building 4: 162,810 sf
    - Building 5: 86,951 sf

Primary vehicular access will be provided by a Project-constructed extension of Napa Street, west of Etiwanda Avenue. A secondary access point onto Napa Street will be provided east of Etiwanda Avenue[1], under the Etiwanda Avenue Grade Separation[2] that will be constructed by the City.

Figure 1A illustrates the proposed Etiwanda Site layout.

- Arrow Route Site (also known as the CMC Site) – A 94-acre site located on the south side of Arrow Route, generally along both sides of Juneberry Drive and extending southerly to the BNSF Railroad tracks. The proposed development concept consists of 1,793,790 sf of warehouse uses provided in five buildings:

    - Building 1: 88,400 sf
    - Building 2: 91,520 sf
    - Building 3: 64,060 sf
    - Building 4: 1,048,530 sf
    - Building 5: 501,280 sf

    Vehicular access to the Arrow Route Site would be provided by two roadways: the existing Juneberry Drive and a new north-south public street to be located along the west side of the Arrow Route Site. Internal to the site, the Project will construct a new east-west street along the BNSF Railroad tracks, which will connect Juneberry Drive to the new westerly public street.

    Figure 1B illustrates the proposed Arrow Route Site layout.

This analysis also includes the Newcastle Project (also known as the Tree Island Site), which is a separately proposed project located immediately north of Building 5 on the Arrow Route Site, east of Juneberry Drive. The Newcastle Project proposes a total of 327,000 sf of warehouse space and is anticipated to share access along Juneberry Drive with portions of the Arrow Route Site. The completion date is also anticipated to be concurrent with the Project. For the purposes of this analysis, the Newcastle Project was considered concurrently with the Project due to its proximity and shared access with the Arrow Route Site along with the anticipated concurrent timing.

The general location of the Newcastle Project relative to the Arrow Route Site is illustrated in Figure 1B.

[1] The Project proposes to construct an access point on Napa Street, east of Etiwanda Avenue, to provide secondary access to the Etiwanda Site. Completion of the Etiwanda Avenue Grade Separation will facilitate the construction of this access point, which will consist of a two-lane roadway below the Etiwanda Avenue Grade Separation overpass.

[2] The Etiwanda Avenue Grade Separation is identified as a General Plan improvement that involves the construction of a new overpass (grade separation) on Etiwanda Avenue, over the BNSF Railroad tracks. In addition, Etiwanda Avenue will be widened to provide a four-lane cross-section between Napa Street and Whittram Avenue. The City is anticipated to complete this project by Year 2025.

The following development phases of the Project have been identified:

- Phase 1 – Completion of the entire Arrow Route Site and the construction of Buildings 1, 2, and 5 on the Etiwanda Site, anticipated in Year 2025, and the concurrent completion of the Newcastle Project

- Phase 2A – In addition to Phase 1, construction of Building 3 on the Etiwanda Site, with anticipated completion in Year 2026

- Phase 2B (full buildout) – In addition to Phases 1 and 2A, construction of Building 4 on the Etiwanda Site, with anticipated completion in Year 2027

The development phasing above also represents the Project's analysis scenarios. For purposes of this analysis, the Project will also consider potential delayed and planned completion scenarios of the Etiwanda Avenue Grade Separation, so Year 2025 conditions without and with the Etiwanda Avenue Grade Separation were analyzed.

TRIP GENERATION

The Project trip generation analysis utilized assumptions from *Etiwanda Warehouse Due Diligence Traffic Assessment* (Urban Crossroads, December 2020), as well as an evaluation of the local roadway system surrounding the Project Sites. A detailed review and analysis of 11 study intersections was conducted for typical weekday morning (7:00 AM to 10:00 AM) and afternoon (4:00 PM to 7:00 PM) peak periods under Existing Conditions (Year 2022) and multiple Future Conditions (Years 2025, 2026, and 2027). The analysis of Future Conditions (Years 2025, 2026, 2027) respectively correspond with the anticipated buildout year the Project's development phases (Phases 1, 2A, and 2B).

Figure 2 illustrates the location of the Project Sites in relation to the surrounding street system and identifies the 11 study intersections, including 10 signalized locations and one unsignalized location:

1. Interstate 15 (I-15) Southbound Ramps & Foothill Boulevard
2. I-15 Northbound Ramps & Foothill Boulevard
3. Etiwanda Avenue & Foothill Boulevard
4. Etiwanda Avenue & Arrow Route
5. Etiwanda Avenue & Whittram Avenue
6. Etiwanda Avenue & Napa Street
7. Etiwanda Avenue & 6th Street (unsignalized)
8. Etiwanda Avenue & Fourth Street / San Bernardino Avenue
9. Etiwanda Avenue & Ontario Mills Parkway / Valley Boulevard
10. Etiwanda Avenue & Interstate 10 (I-10) Westbound Ramps
11. Etiwanda Avenue & I-10 Eastbound Ramps

Project Traffic

Trip generation rates from *Trip Generation Manual, 11th Edition* (Institute of Transportation Engineers [ITE], 2021), along with assumptions from *Etiwanda Warehouse Due Diligence Traffic Assessment,* were used to develop trip generation forecasts for the Project. Additionally, Passenger Car Equivalent (PCE) assumptions were applied to estimate the number of trucks in the fleet mix.

Consistent with *Etiwanda Warehouse Due Diligence Traffic Assessment,* the total building area on each Project Site was assumed to operate as 90% high-cube fulfillment center and 10% high-cube cold storage warehouse; the corresponding ITE land use categories for high-cube fulfillment center (non-sort) and high-cube cold storage warehouse uses were referenced to develop the trip generation estimates.[3]

Trip Generation Estimates. The development of the trip generation estimates for each development phase is detailed in Tables 1A-1C, respectively. A summary of those trip generation estimates, adjusted for PCE, is described below.

- Phase 1 – Completion of the Arrow Route Site is estimated to generate 4,566 new daily trips, including 356 morning (256 inbound, 100 outbound) and 321 afternoon (132 inbound, 189 outbound) peak hour trips. The Newcastle Project is estimated to generate 832 new daily trips, with 65 morning (47 inbound, 18 outbound) and 58 afternoon (25 inbound, 33 outbound) peak hour trips. The construction of Buildings 1, 2, and 5 on the Etiwanda Site are estimated to generate 2,249 new daily trips with 176 morning (127 inbound, 49 outbound) and 158 afternoon (64 inbound, 94 outbound) peak hour trips.

  The total Phase 1 PCE trip generation estimate is 7,647 new daily trips, including 597 morning (430 inbound, 167 outbound trips) and 537 afternoon (221 inbound, 316 outbound) peak hour trips.

- Phase 2A – The Etiwanda Site trip generation estimate increases to 2,809 new daily trips, including 219 morning (159 inbound, 60 outbound) and 197 afternoon (82 inbound, 115 outbound) peak hour trips. The trip generation estimates for both the Arrow Route Site and Newcastle Project are unchanged.

The resulting total Phase 1 + Phase 2A PCE trip generation estimate is 8,207 new daily trips, including 640 morning (462 inbound, 178 outbound) and 576 afternoon (239 inbound, 337 outbound) peak hour trips.

- Phase 2B (full buildout) – The Etiwanda Site trip generation estimate increases to 3,222 new daily trips, including 251 morning (180 inbound, 71 outbound) and 226 afternoon (93 inbound, 133 outbound) peak hour trips. The trip generation estimates for both the Arrow Route Site and Newcastle Project are unchanged.

[3] The split of 90% high-cube fulfillment center and 10% high-cube cold storage use represents a conservative tenant scenario, as indicated by the Applicant.

The resulting total Phase 2B (full buildout with the Newcastle project) PCE trip generation estimate is 8,620 new daily trips, including 672 morning (483 inbound, 189 outbound) and 605 afternoon (250 inbound, 355 outbound) peak hour trips.

The summary below identifies the Project's incremental trip generations by development phase. As shown, the Phase 1 development (which includes the Newcastle Project) generates the largest increment of new trips associated with the overall Project:

Phase	Net New Trips		
	Daily	Morning Peak Hour	Afternoon Peak Hour
1	7,647	597	537
2A	560	43	39
2B	413	32	29
TOTAL	8,620	672	605

Trip Distribution and Assignment. The traffic volumes entering and exiting the Project Sites were distributed and assigned to the local street system based on demographics and existing/anticipated travel patterns in the Study Area. Localized routes of travel through the Study Area were developed based on existing traffic patterns and relative travel times on various corridors and the level of accessibility of the route to and from the Project Sites. The Project trip distribution at the Etiwanda Site is illustrated in Figures 3A and 3B for trucks and light vehicles, respectively. The Project trip distribution at the Arrow Route Site and Newcastle Project is illustrated in Figures 3C and 3D for trucks and light vehicles, respectively.

Project truck traffic was assigned to the surrounding street system based on the following general distribution pattern:

- 25% to/from the north (I-15)
- 30% to/from the east (I-10)
- 25% to/from the south (I-15)
- 30% to/from the west (I-10)

Project light vehicle traffic was assigned to the surrounding street system based on the following general distribution pattern:

- 15% to/from the north (I-15, Etiwanda Avenue)
- 30% to/from the east (I-10, Foothill Boulevard, Arrow Route)
- 10% to/from the south (I-15, Etiwanda Avenue)
- 45% to/from the west (I-10, Foothill Boulevard, Arrow Route)

The trip distribution patterns illustrated in Figures 3A-3D were applied to the trip generation estimates detailed in Tables 1A-1C to develop the Project-only traffic assignments by development phase. Figures 4A-4C illustrate each phase of the Project traffic volumes through the study intersections.

LEVEL OF SERVICE (LOS) ANALYSIS

Existing with Project Conditions

The Existing Conditions are defined by the traffic volumes, roadways, and intersection configurations that exist in Year 2022.

Intersection turning movement counts were conducted during the typical weekday morning (7:00 AM to 10:00 AM) and afternoon (4:00 PM to 7:00 PM) commuter peak periods on February 5, 2020 and March 11, 2020. Local schools were in session at the time the traffic counts were conducted and traffic patterns were typical and not impacted at that time by the State of California and City Stay at Home orders as a response to the COVID-19 pandemic. These traffic counts were adjusted by applying an annual growth factor of 2%, consistent with *Etiwanda Warehouse Due Diligence Traffic Assessment,* to represent Existing Conditions in Year 2022 and are depicted in Figure 5. The turning movement count summary worksheets are available in Attachment A.

For informational purposes, the Project Phase 2B (full buildout) traffic volumes were added to the Existing Conditions traffic volumes to develop the Existing with Project Conditions (Year 2022) peak hour traffic volumes shown in Figure 6.

Future with Project Conditions

The Future with Project Conditions are defined by the traffic volumes, roadways, and intersection configurations that would exist in the respective year of the Project's proposed development phase.

Consistent with *Etiwanda Warehouse Due Diligence Traffic Assessment*, an ambient growth factor of 2% per year was used to adjust the existing traffic volumes to reflect the effects of regional growth and development by Years 2025 (Phase 1), 2026 (Phase 2A), and 2027 (Phase 2B) to correspond with the proposed development phasing.

The Future with Project Conditions analyses also considered the effects of the Project in relation to other developments either proposed, approved, or under construction in the Study Area and expected to be implemented prior to the buildout date of the Project (collectively, the Related Projects). The locations of two Related Projects are provided in Figure 7. It is assumed that the growth factor also accounts for increases in traffic due to other Related Projects. The trip generation estimates for the two Related Projects were assigned to the local street system using trip distribution information from *Bridge Point Rancho Cucamonga High-Cube Fulfillment Center Traffic Memo* (Urban Crossroads, April 2021) (Related Project 1) and *Traffic Impact Analysis and CEQA Transportation Impact Analysis Warehouse Scenario, E-Commerce Scenario and 100% E-Commerce Scenario TIA and VMT* (Translutions, Inc., February 2021) (Related Project 2).

The traffic volumes from the two Related Projects are illustrated in Figure 8.

The Future without Project Conditions intersection traffic volumes illustrated in Figures 9A-9C reflect the addition of trips anticipated to be generated by the Related Projects to the Existing Conditions traffic volumes plus the application of the ambient growth prior to the respective development phase in Years 2025, 2026, and 2027. To be conservative, both Related Projects were assumed to be fully operational in Year 2025.

The Project-only traffic volumes by development phase in Figures 4A-4C were added to the Future without Project Conditions traffic volumes to develop the respective Future with Project Conditions peak hour traffic volumes shown in Figures 10A-10C.

Operational Evaluation

The intersection delay analyses for the operational evaluation were conducted using the *Highway Capacity Manual, 6th Edition* (Transportation Research Board, 2016) (HCM) methodology, which was implemented using Synchro software to analyze intersection operating conditions. The HCM signalized methodology calculates the average delay, in seconds, for each vehicle passing through the intersections. The HCM two-way stop-control unsignalized methodology calculates the control delay, in seconds, for individual approaches of an intersection. Table 2 presents a description of the LOS categories, which range from excellent, nearly free-flow traffic at LOS A, to stop-and-go conditions at LOS F, for signalized and unsignalized intersections.

LOS worksheets for each analysis scenario are provided in Attachment B.

Existing Conditions. Table 3 summarizes the analysis of the Existing Conditions during the weekday morning and afternoon peak hours for the study intersections. As shown, nine of the 11 study intersections currently operate at LOS D or better during both analyzed peak hours under Existing Conditions. The remaining two study intersections operate at LOS E or F during either the morning or afternoon peak hour under Existing Conditions:

- Intersection #4: Etiwanda Avenue & Arrow Route (LOS E morning peak hour)
- Intersection #5: Etiwanda Avenue & Whittram Avenue (LOS F morning peak hour)

Future with Project Phase 1 Conditions (Year 2025). The Future with Project Phase 1 Conditions (Year 2025) includes analysis of the Project Phase 1 (including the Newcastle project) both without and with completion of the Etiwanda Avenue Grade Separation. Table 4 summarizes the analysis during the weekday morning and afternoon peak hours for the study intersections.

- *Without Etiwanda Avenue Grade Separation* - Seven of the 11 study intersections are anticipated to operate at LOS D or better during both the morning and afternoon peak hours during the Future with Project Phase 1 Conditions. Three of the remaining four study intersections are anticipated to continue to operate at LOS E or F during either the morning or afternoon peak hour under Future with Project Phase 1 Conditions:
    - Intersection #3: Etiwanda Avenue & Foothill Boulevard (LOS E morning peak hour)
    - Intersection #4: Etiwanda Avenue & Arrow Route (LOS F morning peak hour)
    - Intersection #5: Etiwanda Avenue & Whittram Avenue (LOS F morning peak hour)

The fourth intersection, Intersection #7: Etiwanda Avenue & 6th Street, is anticipated to result in an afternoon peak hour degradation from LOS D in the Future with Project Conditions (Year 2025) to LOS E with the addition of Project Phase 1 traffic.

- *With Etiwanda Avenue Grade Separation* - Seven of the 11 study intersections are also anticipated to operate at LOS D or better during both the morning and afternoon peak hours during the Future with Project Phase 1 Conditions. Three of the remaining four study intersections are anticipated to continue to operate at LOS E or F during either the morning or afternoon peak hour under Future with Project Phase 1 Conditions:

    - Intersection #3: Etiwanda Avenue & Foothill Boulevard (LOS E morning peak hour)
    - Intersection #4: Etiwanda Avenue & Arrow Route (LOS F morning peak hour)
    - Intersection #5: Etiwanda Avenue & Whittram Avenue (LOS F morning peak hour)

    The fourth intersection, Intersection #7: Etiwanda Avenue & 6th Street, is anticipated to result in an afternoon peak hour degradation from LOS D in the Future without Project Conditions (Year 2025) to LOS E with the addition of Project Phase 1 traffic.

Completion of the Etiwanda Avenue Grade Separation results in minor changes in the projected delay at select intersections and the overall LOS pattern is similar without or with completion of the grade separation. It should be noted that the Etiwanda Avenue Grade Separation facilitates completion of the Etiwanda Site's secondary access point

Future with Project Phases 1 + 2A Conditions (Year 2026). The Future with Project Phases 1 + 2A Conditions (Year 2026) includes analysis of the Project through Phase 2A and assumes completion of the Etiwanda Avenue Grade Separation.

Table 5 summarizes the analysis during the weekday morning and afternoon peak hours for the study intersections. As shown, six of the 11 study intersections are anticipated to operate at LOS D or better during both the morning and afternoon peak hours both without and with Project Phases 1 + 2A. Four of the remaining five study intersections are anticipated to continue to operate at LOS E or F during either the morning or afternoon peak hour under the Future without Project Conditions (Year 2026) and Future with Project Phases 1 + 2A Conditions (Year 2026):

- Intersection #1: I-15 Southbound Ramps & Foothill Boulevard (LOS E afternoon peak hour)
- Intersection #3: Etiwanda Avenue & Foothill Boulevard (LOS E morning peak hour)
- Intersection #4: Etiwanda Avenue & Arrow Route (LOS E morning peak hour)
- Intersection #5: Etiwanda Avenue & Whittram Avenue (LOS F morning peak hour)

The last study intersection, Intersection #7: Etiwanda Avenue & 6th Street, is anticipated to result in an afternoon peak hour degradation from LOS D in the Future without Project Conditions (Year 2026) to LOS E with the addition of Project Phase 2A traffic.

Future with Project Phases 1 + 2A + 2 B Conditions (Year 2027) (Full Project). The Future with Full Project Conditions (Year 2027) includes analysis of the Project through Phase 2B (buildout) and assumes completion of the Etiwanda Avenue Grade Separation.

Table 6 summarizes the analysis during the weekday morning and afternoon peak hours for the study intersections. As shown, five of the 11 study intersections are anticipated to operate at LOS

D or better during both the morning and afternoon peak hours without and with Project Phase 2B. Five of the remaining six study intersections are anticipated to continue to operate at LOS E or F during either the morning or afternoon peak hour under the Future without Project Conditions (Year 2027) and Future with Project Phase 2B Conditions (Year 2027):

- Intersection #1: I-15 Southbound Ramps & Foothill Boulevard (LOS E afternoon peak hour)
- Intersection #3: Etiwanda Avenue & Foothill Boulevard (LOS E morning peak hour)
- Intersection #4: Etiwanda Avenue & Arrow Route (LOS F morning peak hour)
- Intersection #5: Etiwanda Avenue & Whittram Avenue (LOS F morning peak hour)
- Intersection #8: Etiwanda Avenue & 4th Street/San Bernardino Avenue (LOS E morning peak hour)

The last intersection, Intersection #7: Etiwanda Avenue & 6th Street, is anticipated to result in an afternoon peak hour degradation from LOS D in the Future with Project Conditions (Year 2027) to LOS E with the addition of Full Project traffic.

Intersections with Deficient Operations

As identified in the analysis of each Future Condition (Years 2025, 2026, 2027), multiple analyzed intersections are projected to operate at LOS E or LOS F in the Future Conditions before the addition of Project traffic (and with completion of the Etiwanda Avenue Grade Separation). With the addition of each development phase of Project traffic, the study intersections will continue to operate at LOS E or LOS F. This continued operation at LOS E or LOS F indicates a cumulative condition of deficient operations and suggests that roadway improvements may be necessary to address the projected deficient operations.

These improvements can include those physical measures identified in the General Plan's roadway improvement program and potentially other improvements beyond those identified by the General Plan, where determined necessary. For the purposes of this analysis, the General Plan roadway improvements include: 1) the widening of Etiwanda Avenue to four lanes between Arrow Route and 6th Street and 2) the widening of Arrow Route to four lanes from Etiwanda Avenue to the east City limit. Further assumptions were developed at affected study intersections based on the General Plan roadway improvements.

Future with Project Phase 1 Conditions (Year 2025). The following study intersections were projected to experience cumulatively deficient operations in Year 2025. Both General Plan improvements and additional improvements developed to restore acceptable operations are identified for each study intersection.

- Intersection #3: Etiwanda Avenue & Foothill Boulevard (LOS E morning peak hour) – Widen Etiwanda Avenue to provide two lanes in each direction between Foothill Boulevard and Arrow Route; install a dedicated southbound right-turn lane and additional northbound left-turn lane (for two left-turn lanes).

- Intersection #4: Etiwanda Avenue & Arrow Route (LOS E morning peak hour) – Provide two eastbound and westbound through lanes with a dedicated westbound right-turn lane, consistent with General Plan improvements. Install a second southbound right-turn lane and implement signal control/phasing modifications.

- Intersection #5: Etiwanda Avenue & Whittram Avenue (LOS F morning peak hour) – Reconfigure the eastbound and westbound approaches to provide one left-turn lane and one shared through/right-turn lane.

- Intersection #7: Etiwanda Avenue & 6th Street (LOS E afternoon peak hour) – Provide two northbound and southbound through lanes with a southbound right-turn lane, consistent with General Plan improvements. Add a two way left-turn median on Etiwanda Avenue, north of 6th Street, as a refuge area for eastbound left-turning vehicles from 6th Street.

As summarized in Table 4, implementation of the two General Plan improvements is not projected to alleviate deficient intersection operations. The four additional improvements identified above are projected to improve the deficient operations to LOS D or better during the affected peak hour.

Future with Project Phases 1 + 2A Conditions (Year 2026). Under Year 2026 conditions, the four study intersections previously identified in Year 2025 are projected to continue cumulatively deficient operations and an additional intersection, Intersection #1: I-15 Southbound Ramps & Foothill Boulevard (LOS E afternoon peak hour), is projected to experience cumulatively deficient operations. Implementation of signal control/phasing modifications is recommended as an improvement for this sixth intersection.

As summarized in Table 5, implementation of the two General Plan improvements (identified in Phase 1) is not projected to alleviate the deficient operations at the respectively affected study intersections; the additional improvements identified with Phase 1 in addition to the one developed for Phase 2A are projected to improve the cumulatively deficient intersection operation to LOS D or better during the affected peak hour.

Future with Full Project Conditions (Year 2027). The five study intersections previously identified in Years 2025 and 2026 are projected to continue cumulatively deficient operations and an additional intersection, Intersection #8: Etiwanda Avenue & 4th Street/San Bernardino Avenue (LOS E morning peak hour), is projected to experience cumulatively deficient operations. Implementation of signal control/phasing modifications is recommended as an improvement for this seventh intersection.

As summarized in Table 6, implementation of the two General Plan improvements (identified in Phase 1) is not projected to alleviate the deficient operations at the respectively affected intersections; the additional improvements identified with Phases 1 and 2A, in addition to the one developed for Phase 2B, are projected to improve the cumulatively deficient intersection operation to LOS D or better during the affected peak hour.

Intersection Improvements

As cumulatively deficient locations, the implementation of the identified additional improvements (beyond the General Plan improvement program) may not be attributable to any one specific development; rather, the implementation should be shared by proposed development projects in the area. An improvements fee program based on a pro-rata financial contribution by area development should be developed to assist the funding and implementation of the improvements.

For the purposes of this analysis, cost estimates[4] were identified for the additional improvements; some improvements may be subject to right-of-way (ROW) acquisition and those ROW costs are not included. The estimated costs of the additional improvements include:

- Intersection #1: I-15 Southbound Ramps & Foothill Boulevard (LOS E afternoon peak hour) – Implement signal control/phasing modifications: $300,000.

- Intersection #3: Etiwanda Avenue & Foothill Boulevard (LOS E morning peak hour) – Widen Etiwanda Avenue to provide two lanes in each direction between Foothill Boulevard and Arrow Route (approximately 0.5 miles); install a dedicated southbound right-turn lane and additional northbound left-turn lane (for two left-turn lanes): $6,000,000.

- Intersection #4: Etiwanda Avenue & Arrow Route (LOS E morning peak hour) – Install a second southbound right-turn lane and implement signal control/phasing modifications: $800,000.

- Intersection #5: Etiwanda Avenue & Whittram Avenue (LOS F morning peak hour) – Reconfigure the eastbound and westbound approaches to provide one left-turn lane and one shared through/right-turn lane: $300,000.

- Intersection #7: Etiwanda Avenue & 6th Street (LOS E afternoon peak hour) – Add a two way left-turn median on Etiwanda Avenue, north of 6th Street, as a refuge area for eastbound left-turning vehicles from 6th Street: $500,000.

- Intersection #8: Etiwanda Avenue & 4th Street/San Bernardino Avenue (LOS E morning peak hour) – Implement signal control/phasing modifications: $300,000.

The estimated cost of the additional improvements identified above is approximately $8,200,000, excluding ROW costs.

Based on review of the projected Future Conditions (Year 2027) traffic volume (including background and Project traffic) at the affected intersections and the Project Phases 1 + 2A + 2B (full buildout) traffic assigned to the intersection, the percentage of traffic added by the Project was estimated by peak hour (calculated by dividing the Project-only traffic by the total Future Conditions in Year 2027. The identification of the fair share percentage represents the higher of the Project's peak hour percentage share of overall traffic.

[4] The improvement cost estimates presented here are for informational purposes only and subject to confirmation and/or further study.

The table below estimates the Project's potential fair share percentage to calculate the potential pro-rata contribution.

Int #	N/S Street	E/W Street	Future AM	Project AM	% share	Future PM	Project PM	% share	Fair Share	Impt Cost	Pro-rata
1	I-15 SB Ramps	Foothill Blvd	5,391	72	**1.3%**	6,507	53	0.8%	1.3%	$300,000	$4,000
3	Etiwanda Ave	Foothill Blvd	4,134	262	6.3%	4,272	547	**12.8%**	12.8%	$6,000,000	$768,000
4	Etiwanda Ave	Arrow Route	3,187	523	16.4%	3,699	836	**22.6%**	22.6%	$800,000	$181,000
5	Etiwanda Ave	Whittram Ave	1,710	345	**20.2%**	2,116	350	16.5%	20.2%	$300,000	$61,000
7	Etiwanda Ave	6th St	1,575	304	**19.3%**	1,930	346	17.9%	19.3%	$500,000	$97,000
8	Etiwanda Ave	Fourth St/San Bernardino A	2,810	302	10.7%	3,785	502	**13.3%**	13.3%	$300,000	$40,000

The potential fair share percentage varies by location and ranges from 1.3% to 22.6%, based on the amount of added Project traffic.

Applying the respective fair share percentages to the above cost estimates for the additional improvements at each intersection potentially results in a pro-rata contribution of $1,151,000 (rounded to the nearest $1,000) by the Project.

This pro-rata contribution is in addition to any fees or contributions that may be required by the General Plan.

QUEUING ANALYSIS

A queuing analysis was conducted at the analyzed locations to identify the potential operations at each intersection. This analysis was based on the traffic volumes developed for Future with Full Project Conditions (Year 2027) using the HCM methodology to identify the 95th percentile queue. The 95th percentile queue is expressed in feet and represents the estimated length of vehicle queuing for specific movements or lane groups at an analyzed intersection; this value is compared to the estimated queuing capacity at each intersection (the storage length of a given lane, typically expressed in feet). The queuing analysis is summarized in Table 7 and detailed in Attachment C.

Future with Full Project Conditions (Year 2027)

Prior to the addition of Full Project traffic in Year 2027, the overall intersection operation is projected to exceed the available storage capacity at the following locations in either peak hour:

- Intersection #3: Etiwanda Avenue & Foothill Boulevard
- Intersection #6: Etiwanda Avenue & Napa Street
- Intersection #8: Etiwanda Avenue & 4th Street/San Bernardino Avenue

The addition of Full Buildout Project traffic (Phases 1 + 2A + 2B) is anticipated to result in queue impacts on intersection movements where the projected queue increases by 50 feet (two vehicles) or more.

These locations include:

- Intersection #2: I-15 Northbound Ramps & Foothill Boulevard
- Intersection #3: Etiwanda Avenue & Foothill Boulevard
- Intersection #4: Etiwanda Avenue & Arrow Route
- Intersection #6: Etiwanda Avenue & Napa Street
- Intersection #8: Etiwanda Avenue & 4th Street/San Bernardino Avenue

The General Plan and additional intersection improvements identified above were developed to potentially address deficient operations at affected intersections; the improvements were also evaluated relative to alleviating the queue impacts noted above. While those improvements addressed deficient intersection operations, queuing impacts are anticipated to remain at selected movements at seven intersections in either peak hour; these locations include:

- Intersection #1: I-15 Southbound Ramps & Foothill Boulevard
- Intersection #2: I-15 Northbound Ramps & Foothill Boulevard (additional improvements not previously identified)
- Intersection #3: Etiwanda Avenue & Foothill Boulevard
- Intersection #4: Etiwanda Avenue & Arrow Route
- Intersection #5: Etiwanda Avenue & Whittram Avenue
- Intersection #6: Etiwanda Avenue & Napa Street
- Intersection #8: Etiwanda Avenue & 4th Street/San Bernardino Avenue

The queue impacts at each affected intersection should be further investigated for additional improvement measures.

EVACUATION EVALUATION

As part of the General Plan, an evacuation evaluation was prepared that focused primarily on residential evacuations from the foothill neighborhoods.

GTC prepared an evaluation to provide insight, based on the Project's proposed industrial land uses and its location at the southeastern quadrant of the City, on the potential roadway operation of a mass evacuation event. The evaluation included the determination of the approximate vehicular delays that would be experienced during an evacuation if all evacuating traffic from the SEA zones were forced to travel east on Arrow Route or south on Etiwanda Avenue. The analysis focused on the intersection of Arrow Route & Etiwanda Avenue for the eastbound traffic and on the intersections along the Etiwanda Avenue corridor between Arrow Route and 4th Street/San Bernardino Avenue (the southern City limits) under the Future with Full Project Conditions (2027). The nearest fire department facilities were also identified as part of this evaluation.

For the purposes of this evaluation, the Etiwanda Avenue Corridor includes the following intersections:

- Intersection #4: Etiwanda Avenue & Arrow Route
- Intersection #5: Etiwanda Avenue & Whittram Avenue
- Intersection #6: Etiwanda Avenue & Napa Street

- Intersection #7: Etiwanda Avenue & 6th Street
- Intersection #8: Etiwanda Avenue & 4th Street/San Bernardino Avenue

As described earlier, the Project sites are located in the City's SEA, which is characterized as primarily industrial, logistics, and warehouse land uses with adjacent residential development. Etiwanda Avenue provides north-south access; east-west access is primarily available on Arrow Route.

Methodology

The evacuation analysis was based on the following assumptions:

- The designated route evacuates traffic in a southbound direction on Etiwanda Avenue from Arrow Route to 4th Street/San Bernardino Avenue toward I-10; an additional route, eastbound on Arrow Route from Etiwanda Avenue, was also evaluated.

- In the event of an emergency in the Study Area, it is assumed that traffic would be prohibited from entering the area and would be diverted away from the area at Foothill Boulevard on the north, Cherry Avenue on the east, I-10 on the south, and I-15 on the west.

- Future with Full Project Conditions (2027) traffic volumes were utilized for the morning and afternoon peak hours.

- Additional trip generation from adjacent parcels was estimated based on Traffic Analysis Zone (TAZ) information developed for the General Plan and distributed through the evacuation route.

- While a lane of traffic along an arterial street can accommodate up to 1,900 vehicles per lane per hour of green time, a reduced vehicular flow rate of 1,280 vehicles per lane per hour was assumed to be the capacity of the evacuation routes in order to account for limited cross traffic and emergency vehicles.

- The roadway lane configurations were based on the lane configurations from the operational intersection analysis.

The evaluation considered the total time needed to evacuate the Project site and adjacent parcels through the Etiwanda Avenue and Arrow Route corridors. The total time for evacuation was calculated by dividing the total number of vehicles by the flow rate of 1,280 vehicles per lane per hour. The critical point of congestion was presumed to be the movement that would take the longest for traffic to clear.

Under true evacuation conditions (and as noted by the General Plan), there are many variables the City may utilize that would change the assumptions in this evaluation. These include, but are not limited to, traffic control officers stationed at intersections, signal timing changes, turning movement restrictions, and strategically rerouting traffic away from the area. The time of day, whether school is in session, and the location of the evacuation areas may also affect this

analysis. However, this evaluation presumes an evacuation scenario during peak hour traffic conditions.

Evacuation Trip Generation

Trip generation estimates were developed from the TAZ population and employment projections developed with the General Plan. A total of eight TAZs were selected for this analysis, which are generally located on each side of Etiwanda Avenue between Arrow Route and 4th Street/San Bernardino Avenue. Both the population and employment projections were expressed as number of persons, which requires conversion into vehicle trips for the purposes of this analysis.

- The population projections were understood to represent residents; to convert into vehicle trips, an Average Vehicle Ridership (AVR) of two persons per vehicle was conservatively assumed for evacuation purposes.

- The employment projections were understood to represent employees; to convert into vehicle trips, an AVR of one person per vehicle was conservatively assumed for evacuation purposes.

The table below summarizes the assumptions by specific TAZ and the trip generation development.

		Persons		Trips		
TAZ	Location / Description	Population	Employment	Resident	Employee	Total TAZ
53700201	S of RR, W of Etiwanda Av		180	0	180	180
53700501	NW corner of Etiwanda Av & 4th St	2,641	2,295	1,321	2,295	3,616
53702101	NE corner of Etiwanda Av & Arrow Rte	1,941	18	971	18	989
53702201	NW corner of Etiwanda Av & Arrow Rte	2	1,644	1	1,644	1,645
53702202	SW corner of Etiwanda Av & Arrow Rte		1,242	0	1,242	1,242
53702401	SE corner of Etiwanda Av & Arrow Rte	150	590	75	590	665
53702402	S of RR, E of Etiwanda Av	36	126	18	126	144
53706302	NE corner of Etiwanda Av & 4th St		193	0	193	193

In total, approximately 8,674 trips from residents and employees were distributed through the analyzed intersections along the evacuation routes.

Future with Full Project Conditions (2027)

The evacuation delay evaluation was based on the intersection approach volumes shown in Figure 10C for the selected intersections under Future with Full Project Conditions for the morning and afternoon peak hour. The adjacent TAZ trips were distributed through the network and added to the selected intersections to estimate the volume of evacuating traffic through the designated routes. The time to clear the intersection (congestion) was calculated by dividing the total volume by the evacuation flow rate (flow rate multiplied by number of lanes).

Tables 8A and 8B present the estimated evacuation volume through the selected intersections, along with the projected approach delay (as calculated with the HCM methodology) and the estimated time to clear the intersection.

As shown in Table 8A, the morning peak hour evacuation along eastbound Arrow Route is estimated to experience 19 minutes of congestion to clear the Etiwanda Avenue intersection and the evacuation along Etiwanda Avenue is estimated to experience 47 to 84 minutes of congestion, depending on location. The maximum congestion is estimated to occur at Etiwanda Avenue & 4th Street/San Bernardino Avenue, which effectively functions as the gateway out of the City and into the neighboring jurisdictions.

As shown in Table 8B, the afternoon peak hour evacuation along eastbound Arrow Route is estimated to experience 48 minutes of congestion to clear the Etiwanda Avenue intersection and the evacuation along Etiwanda Avenue is estimated to experience 43 to 88 minutes of congestion, depending on location. Similar to the morning peak hour, the maximum congestion is estimated to occur at Etiwanda Avenue & 4th Street/San Bernardino Avenue.

These evacuation time represent conservative, worst-case conditions assuming that no evacuation routes to the north or the west would be available.

Emergency Services Access

The ability of emergency services to access the evacuation area is a corresponding component of this evaluation. This evaluation reasonably assumed that law enforcement or other emergency services will institute access restrictions into the emergency area and traffic diversions within the evacuation area itself, effectively creating a reduced traffic volume condition along the evacuation routes. This operating condition will allow emergency service vehicles to more freely travel to the emergency evacuation site because they will effectively be going against the flow of evacuating traffic for at least the final portion of their trip.

For informational purposes, Table 9 summarizes the Fire Department facilities within the City along with nearby facilities from adjacent agencies, along with the approximate distances[5] and estimated travel times[6] to the Project sites.

As shown, two Rancho Cucamonga Fire Department facilities are located in the vicinity of the Project sites. The nearest facility, Station #174, is located to the west approximately 1.9 to 3.1 miles away from the Project sites; estimated travel time ranges from 5.1 to 6.9 minutes to reach the Project sites. The furthest facility, Station #173, is located to the northwest approximately 2.9 to 3.1 miles away from the Project sites; estimated travel time is approximately 7.7 minutes to either Project site.

In the event assistance is requested from outside agencies, the nearest facility is San Bernardino County Fire Department Station #73 located to the northeast at a distance of 2.5 to 2.6 miles from the Project sites; travel times within the evacuation cordon are estimated at approximately 3.8 to 3.9 minutes. Additional San Bernardino County Fire Department and Ontario Fire Department facilities are located a minimum of 4.0 to 4.4 miles, respectively, from the Project sites; the minimum travel times to the Project sites from these facilities ranges from 7.7 to 11.3 minutes.

[5] Approximate distances estimated from the facility to the evacuation cordon and from the cordon to the Project sites, based on routing from Google Maps.

[6] Approximate travel times based on an assumed speed of 20 miles per hour outside the evacuation cordon and 40 miles per hour inside the evacuation cordon.

At intersections outside of the evacuation area or along congested segments, the emergency service vehicles are reasonably anticipated to utilize lights, sirens, public address systems, and signal pre-emption equipment to inform traffic to pull over and may also use opposite lanes or other means to bypass traffic where necessary.

SUMMARY

This analysis is based on the revised land use program for both the Arrow Route Site and Etiwanda Site, along with the inclusion of the Newcastle Project due to shared site access and a concurrent development schedule. This analysis also reflects the Project's proposed development phasing along with existing and proposed developments both north and south of the BNSF Railroad tracks through the SEA.

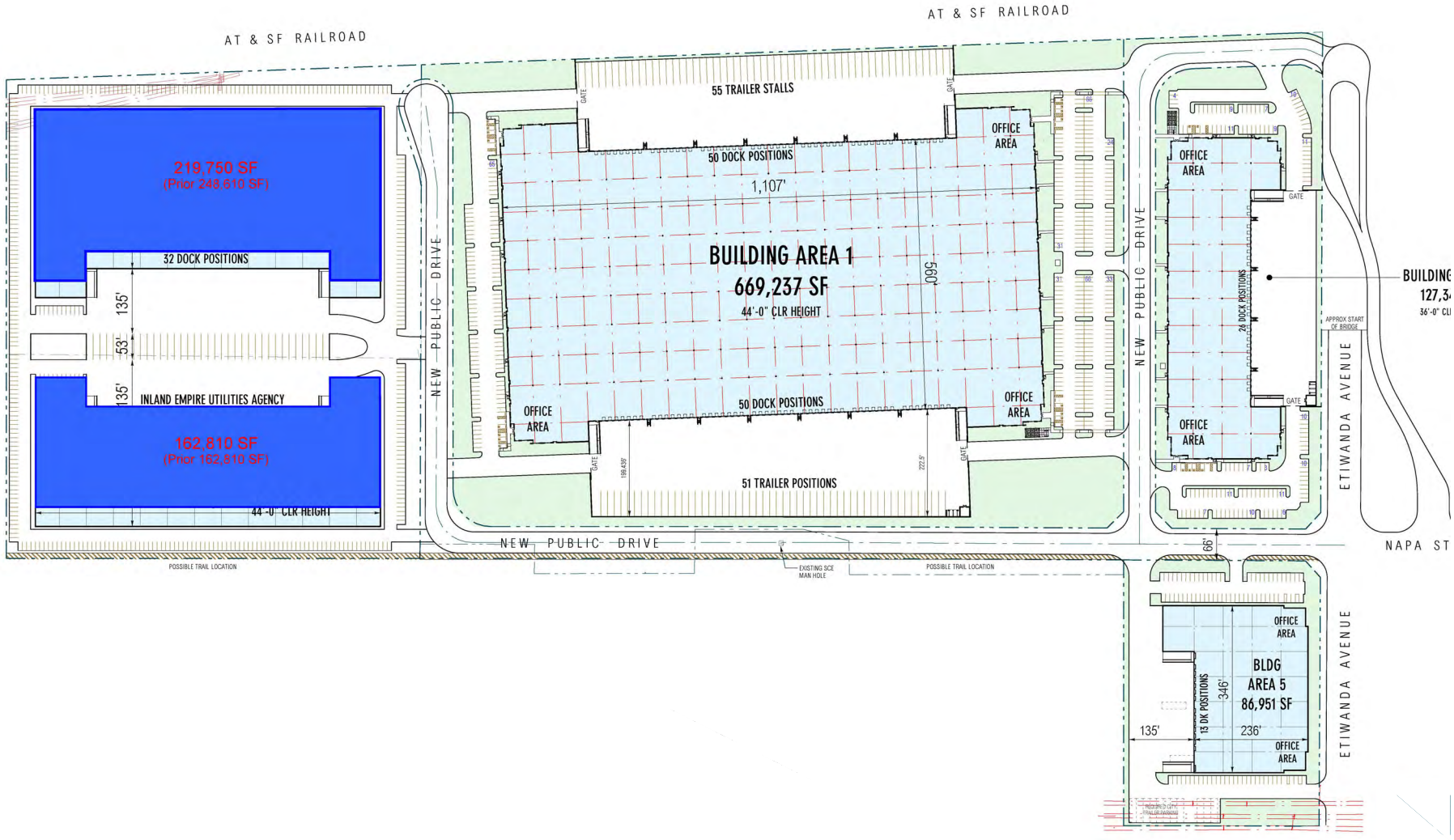
The Future Conditions analyses indicate that intersection operating conditions, depending on the proposed development year (Phase 1 in Year 2025, Phases 1 + 2A in Year 2026, Full Buildout in Year 2027), are projected to be deficient at four to six of the 11 study intersections before the addition of Project traffic in each Future Conditions scenario.

With the addition of Project traffic, Etiwanda Avenue & 6th Street is also projected to experience deficient operations.

This analysis identified a combination of General Plan and individual intersection improvements that would allow the study intersections to operate at LOS D or better in both peak hours with the Full Buildout of the Project in place. This improvement program is estimated to cost approximately $8,200,000, excluding ROW costs. The Project's fair share payment of this set of improvements is estimated at approximately $1,151,000, in addition to any fees required by the General Plan.

An intersection queuing analysis conducted for the Project full buildout condition suggests that select movements at several intersections are projected to experience queuing impacts before and after the addition of Project traffic. The General Plan and additional intersection improvements identified above were developed to potentially address deficient operations at affected intersections; the improvements were also evaluated relative to alleviating the queue impacts noted above. The queue impacts at each affected intersection should be further investigated for additional improvement measures.

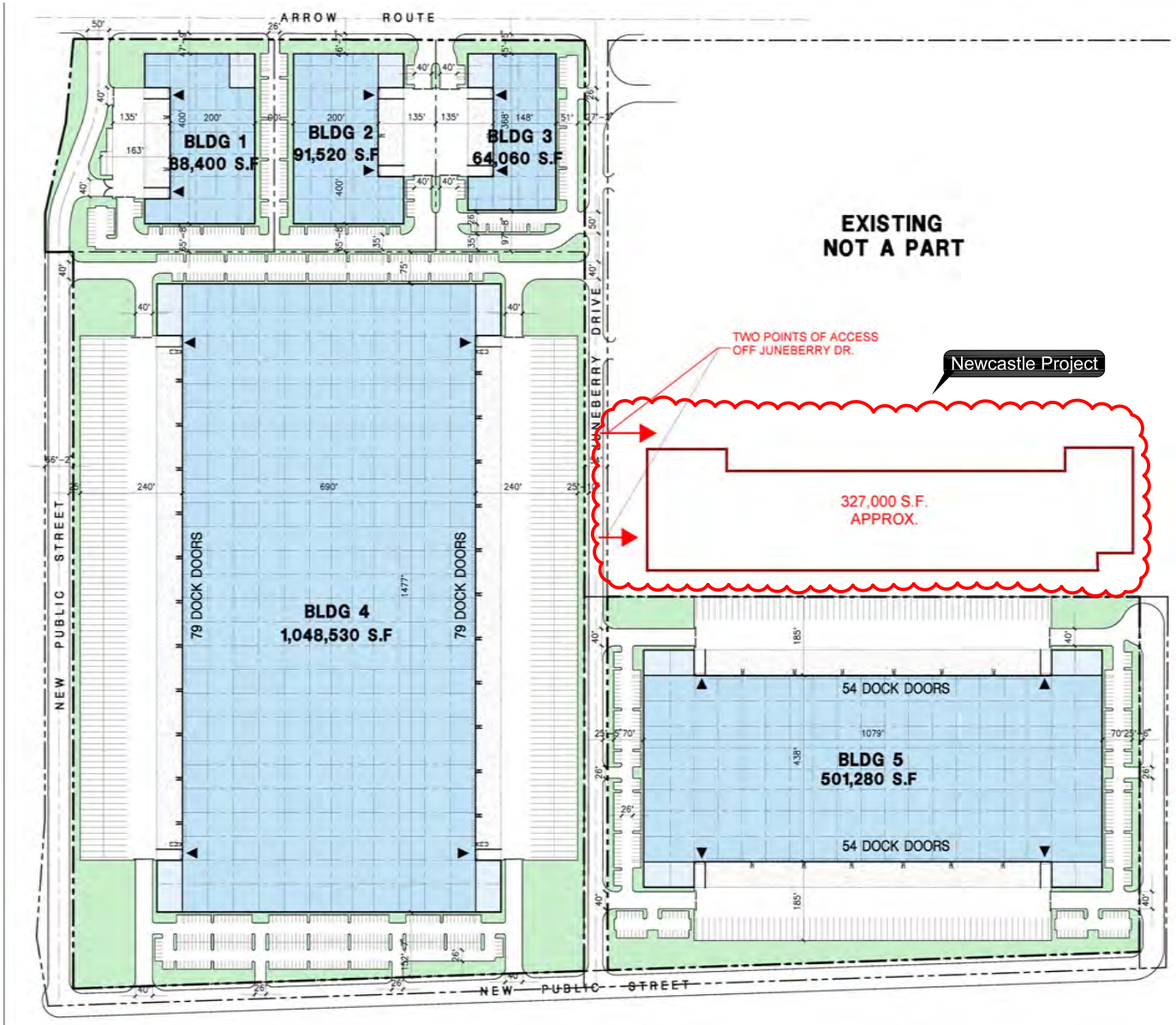
An evaluation of evacuation conditions and emergency services access was conducted.



Source: RGA Architecture. June, 2022.

ETIWANDA SITE

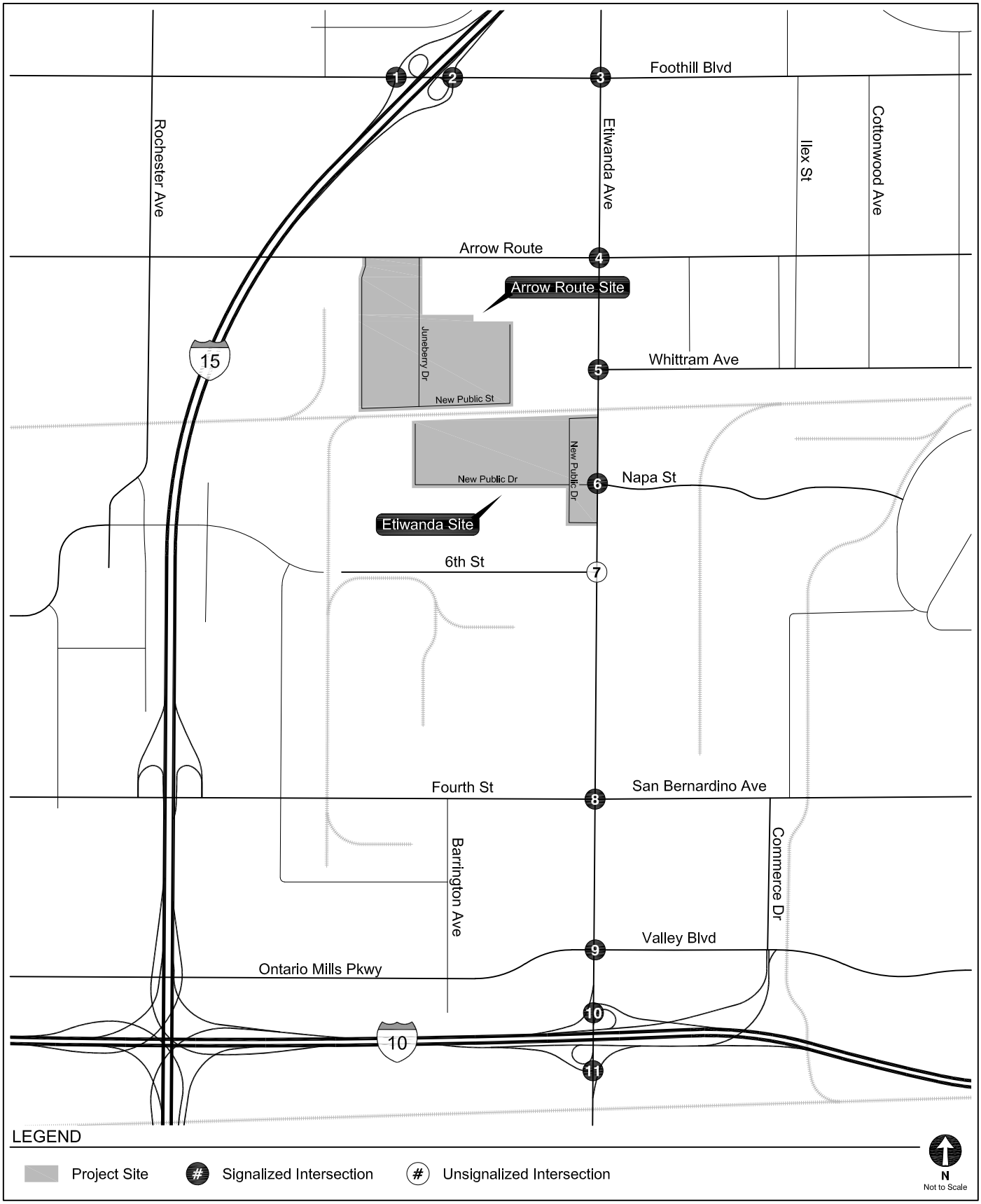
FIGURE 1A



Source: RGA Architecture. June, 2022.

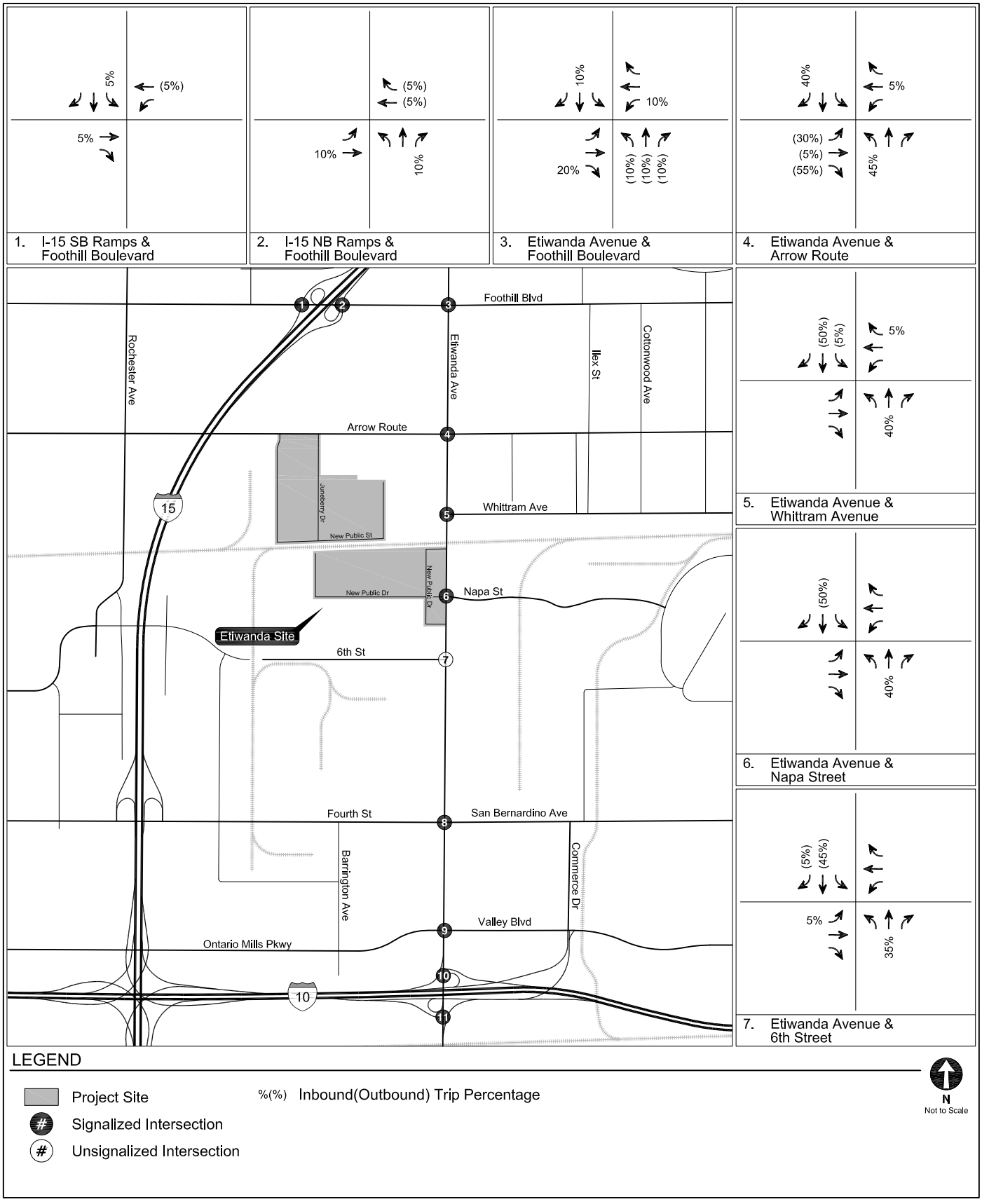
ARROW ROUTE SITE AND NEWCASTLE PROJECT

FIGURE
1B



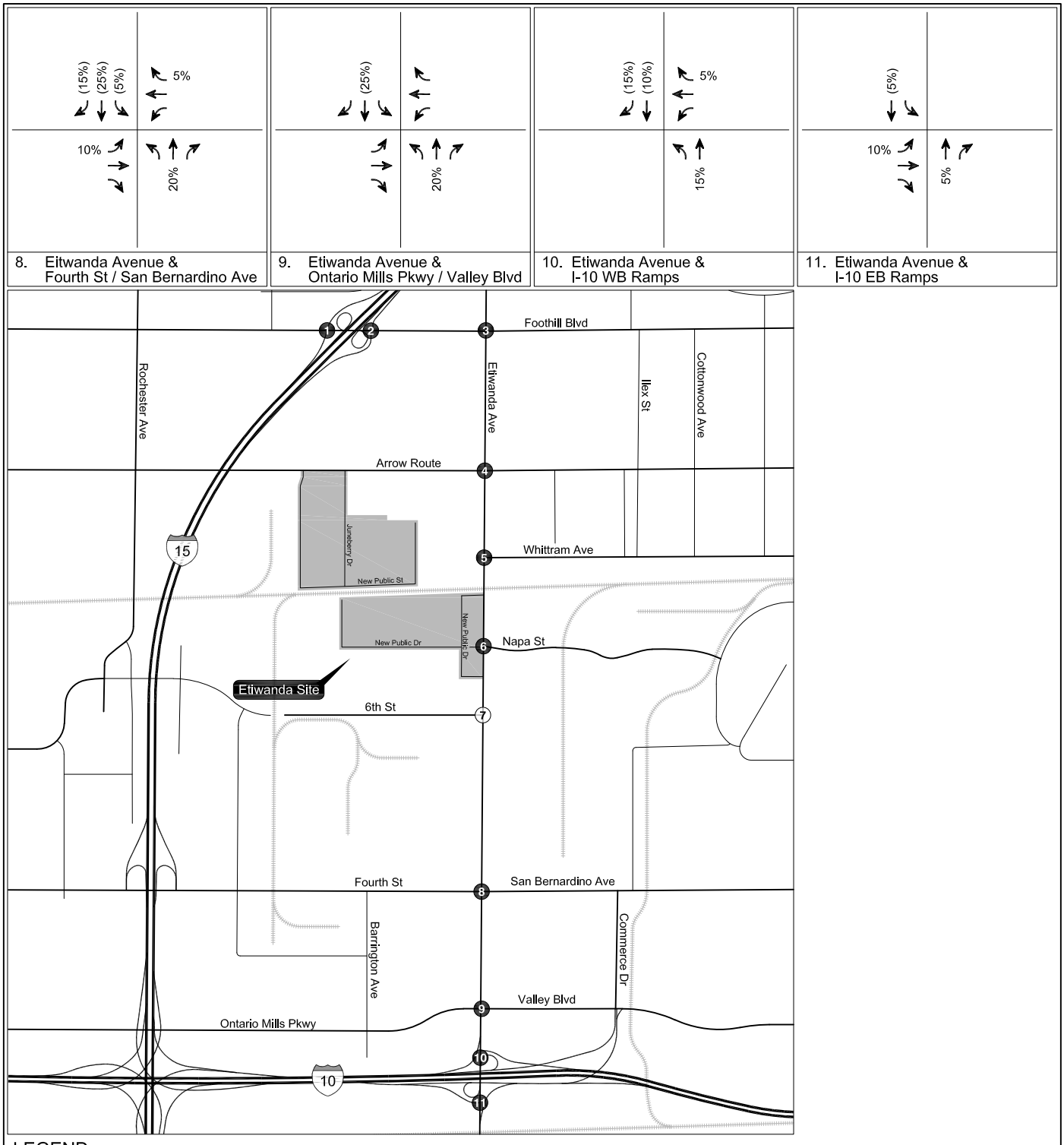
STUDY AREA & ANALYZED INTERSECTIONS

FIGURE 2



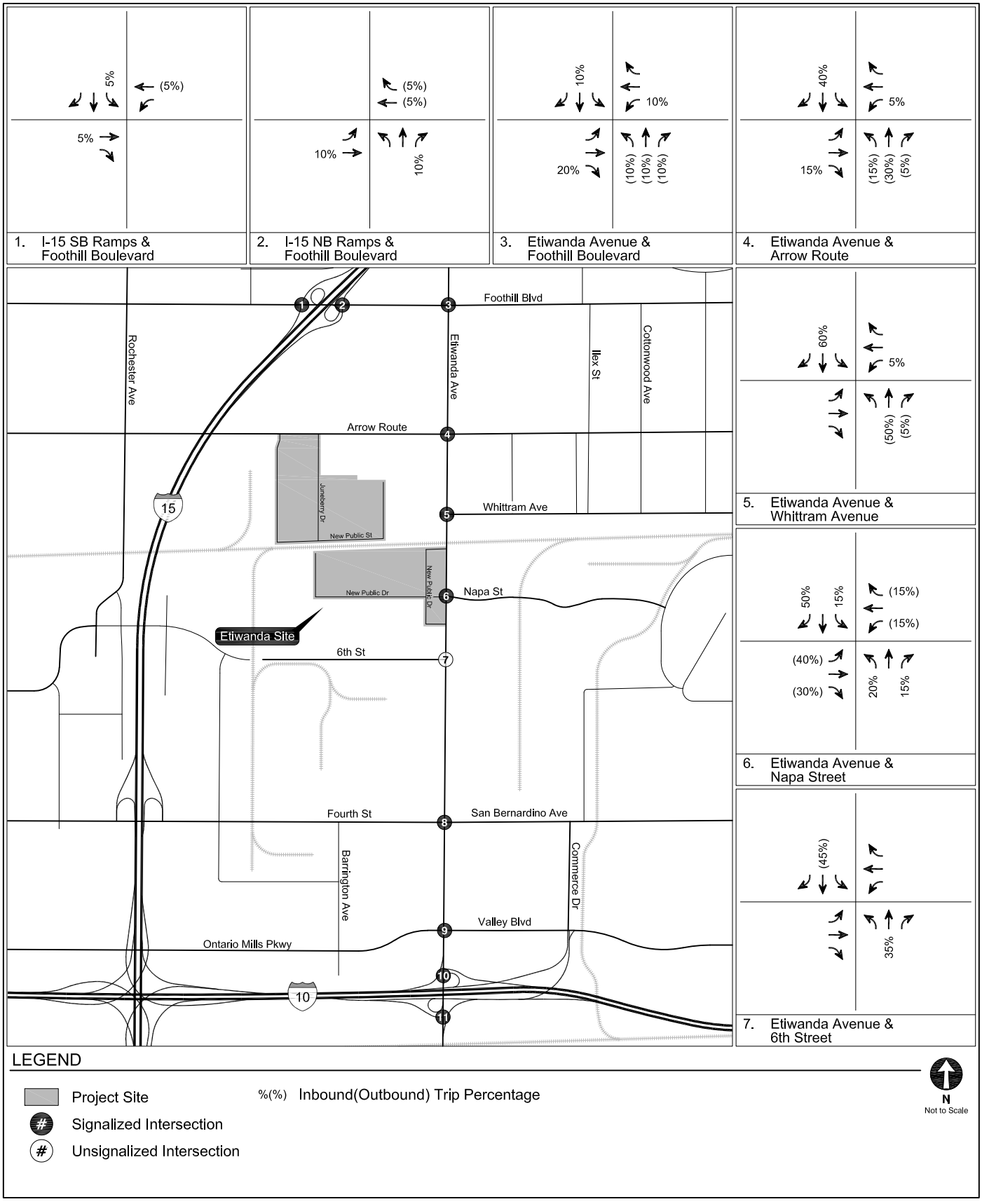
PROJECT TRIP DISTRIBUTION
ETIWANDA SITE - TRUCKS

FIGURE
3A



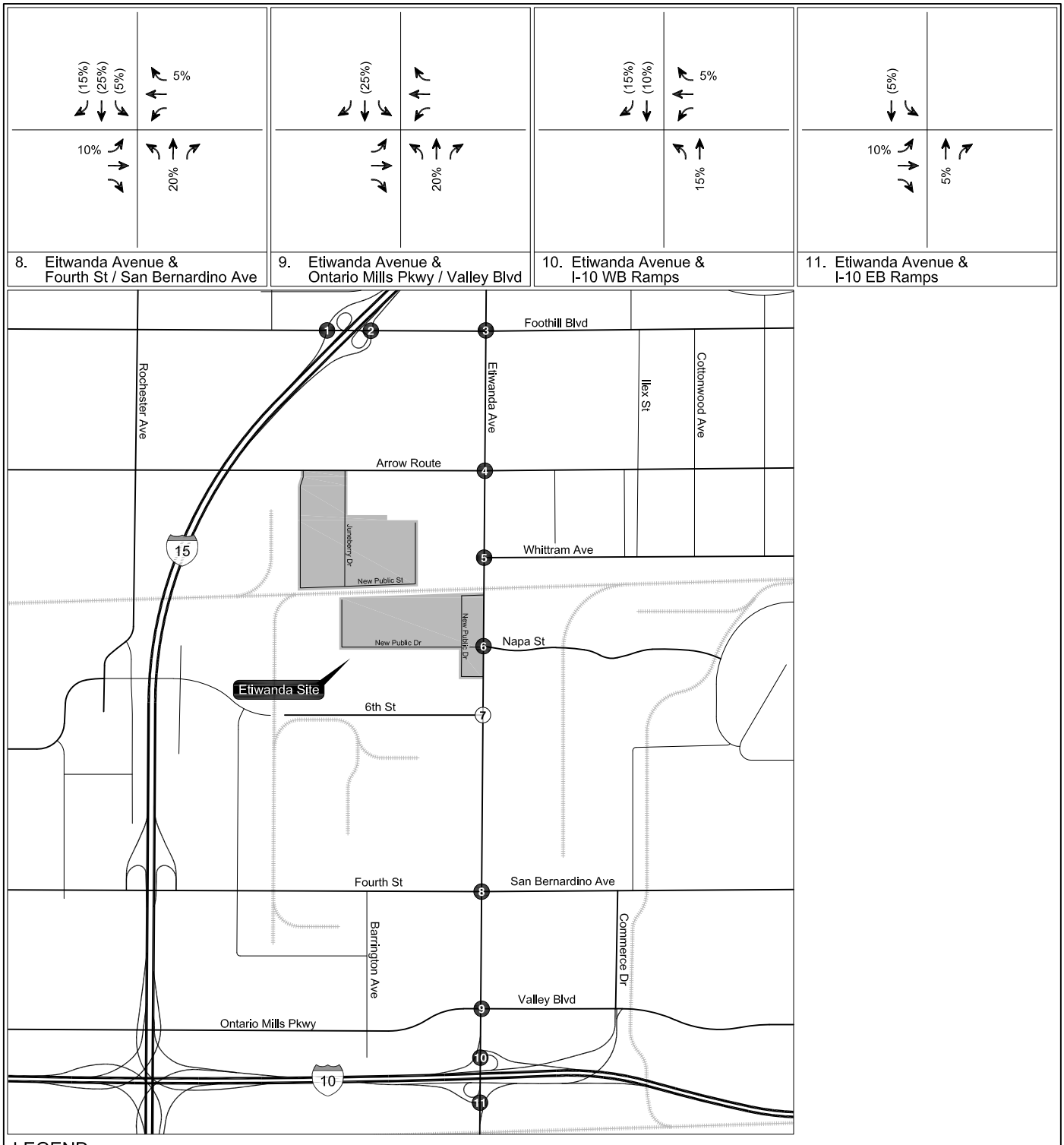
PROJECT TRIP DISTRIBUTION
ETIWANDA SITE - TRUCKS

FIGURE
3A (CONT.)



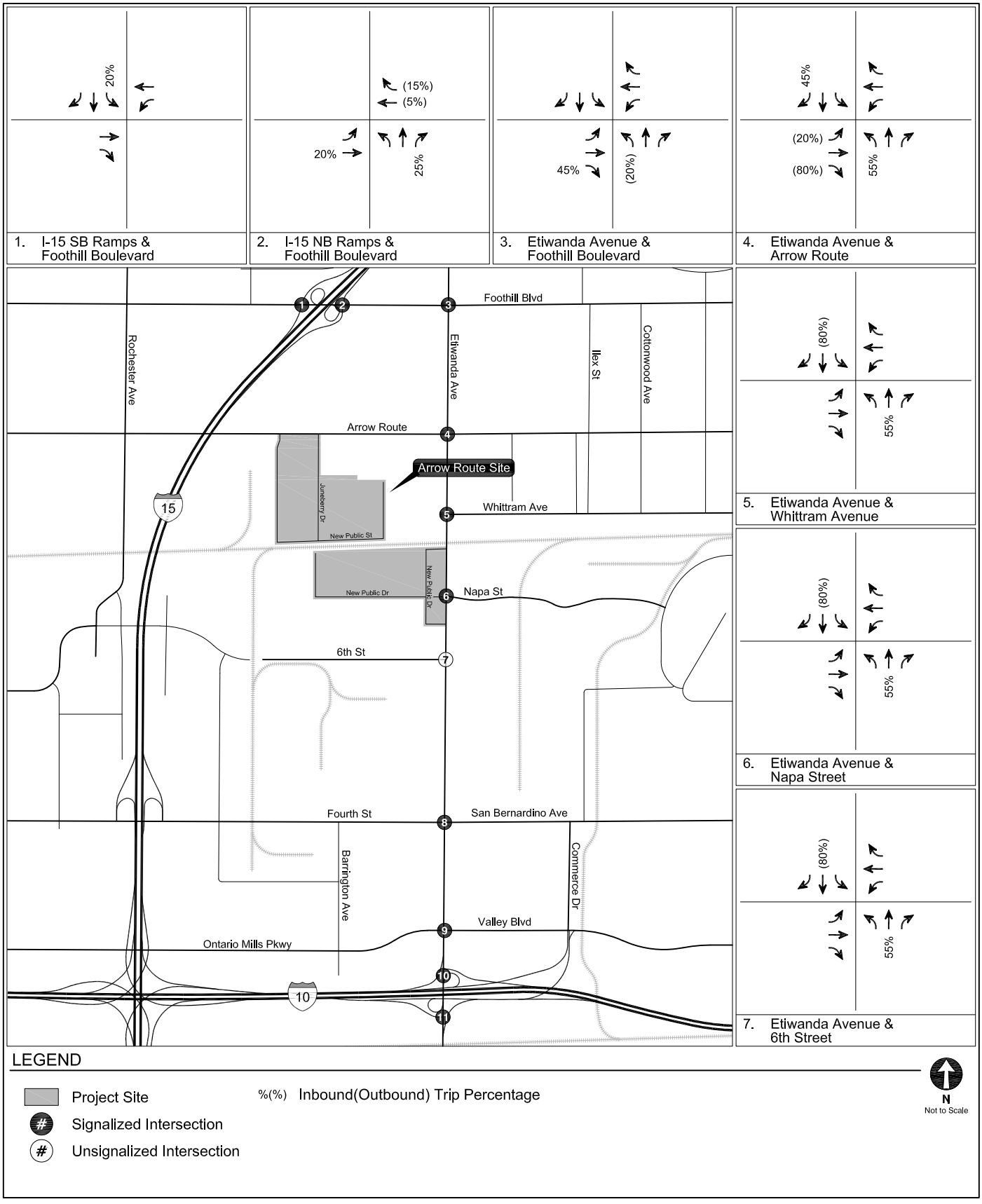
PROJECT TRIP DISTRIBUTION
ETIWANDA SITE - LIGHT VEHICLES

FIGURE
3B



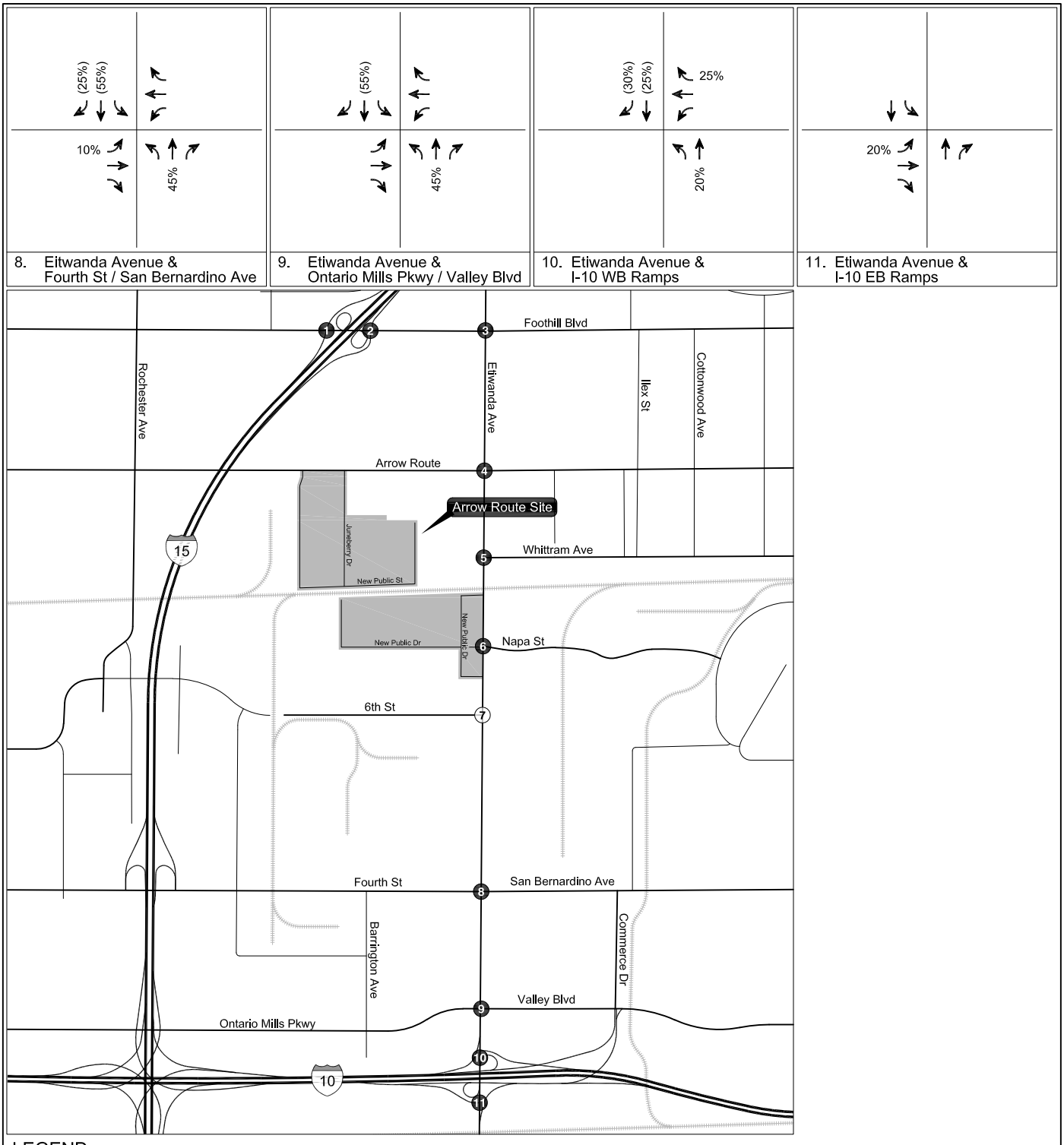
PROJECT TRIP DISTRIBUTION
ETIWANDA SITE - LIGHT VEHICLES

FIGURE
3B (CONT.)



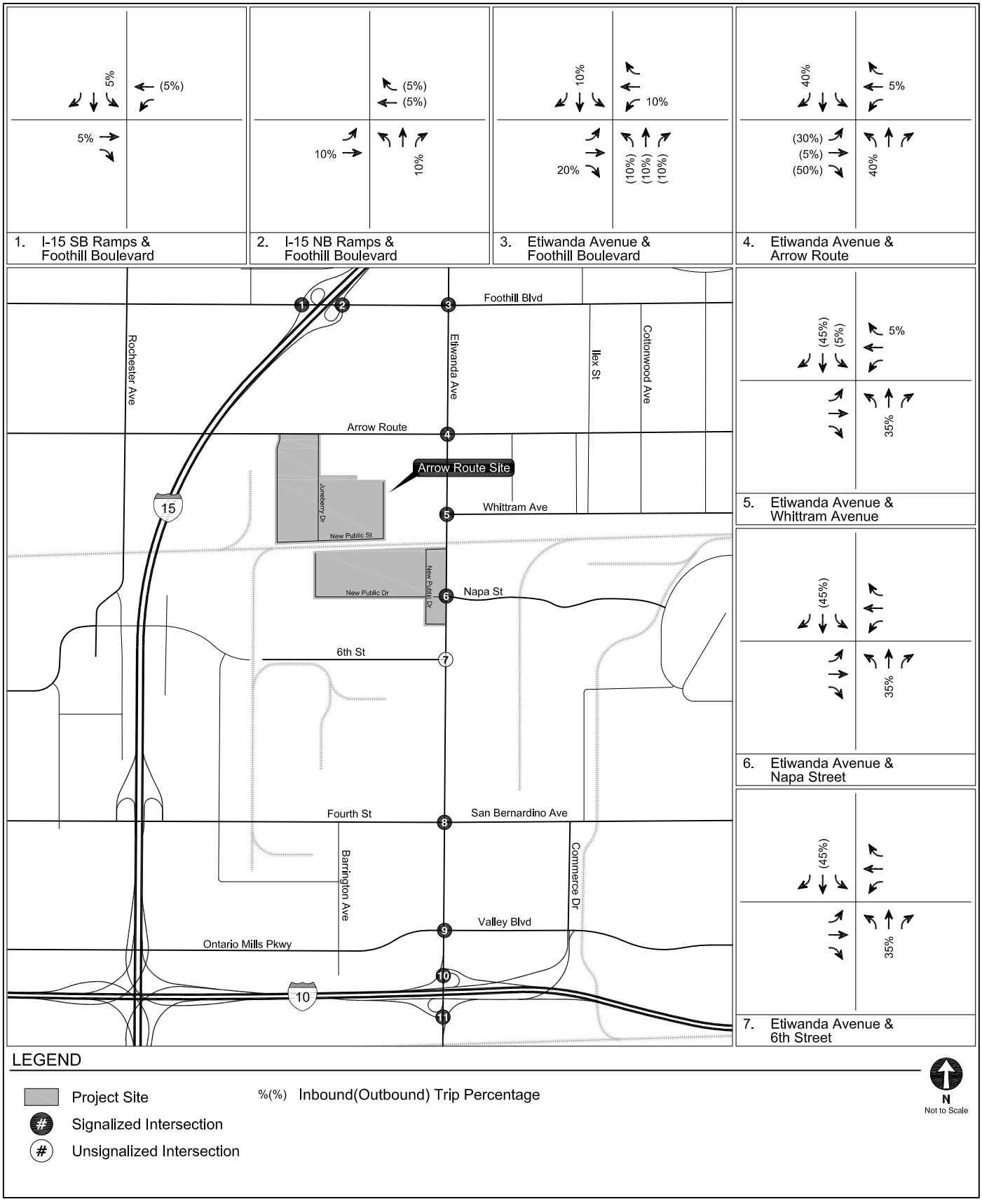
PROJECT TRIP DISTRIBUTION
ARROW SITE - TRUCKS

FIGURE
3C



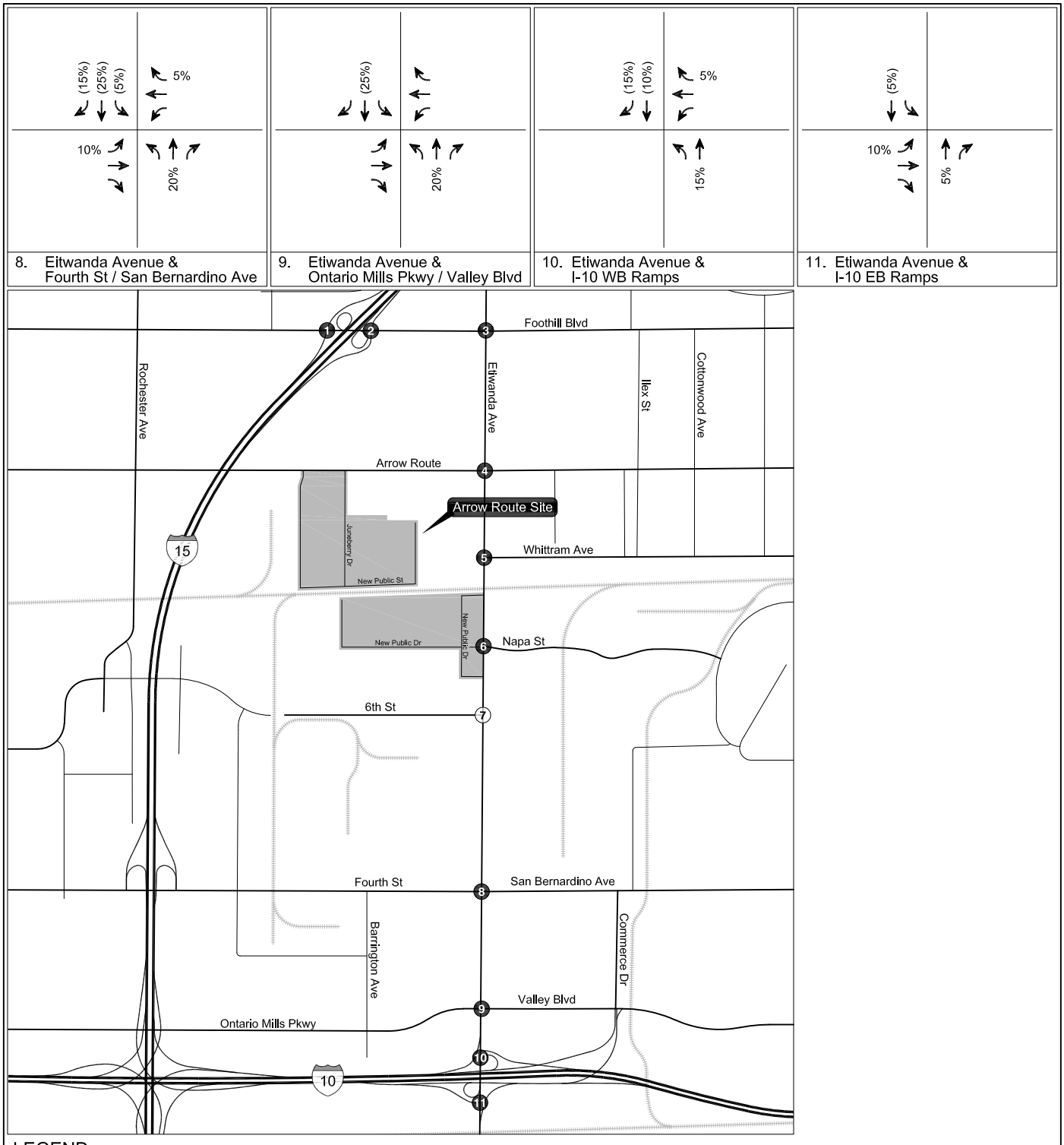
PROJECT TRIP DISTRIBUTION
ARROW SITE - TRUCKS

FIGURE
3C (CONT.)



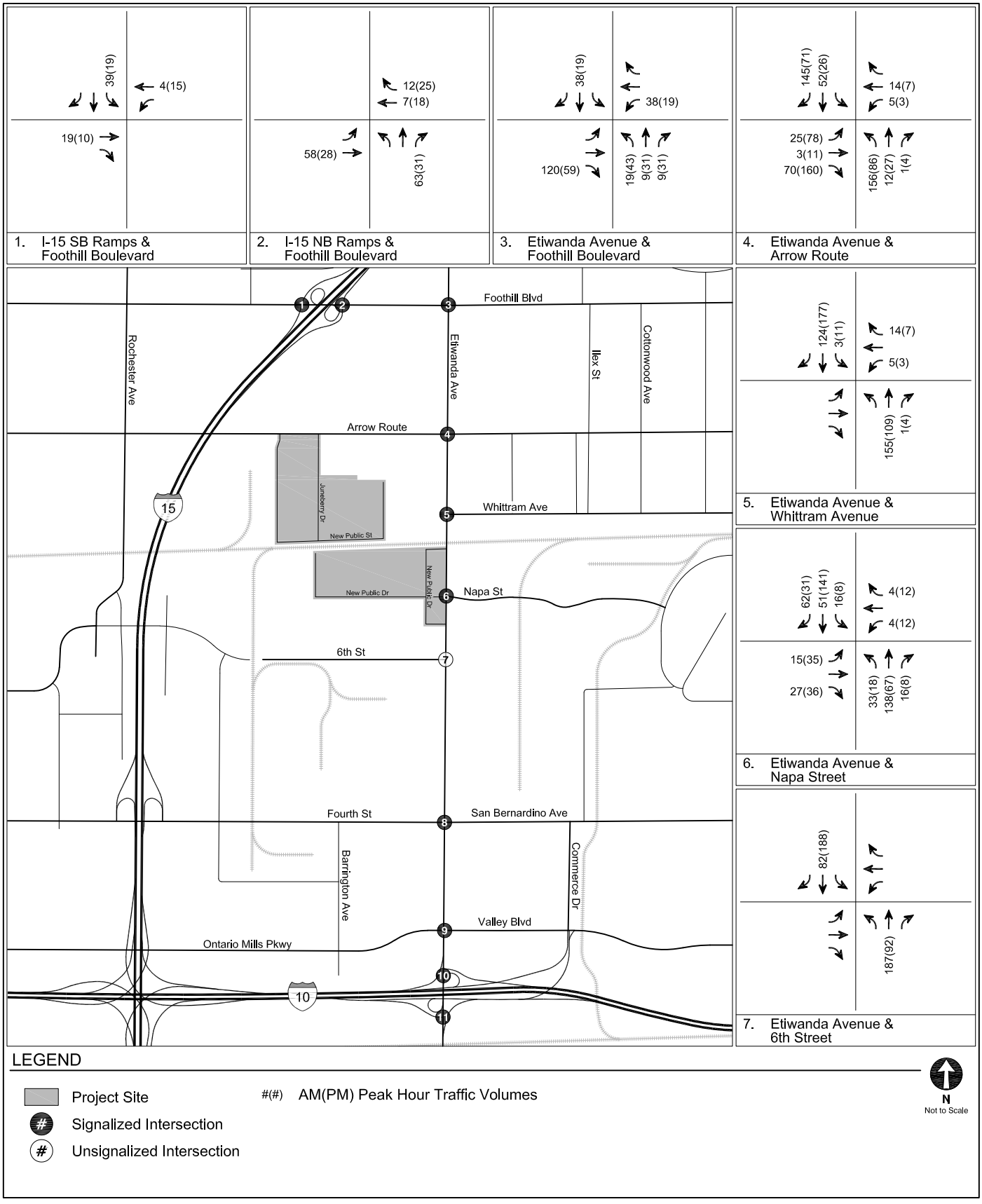
PROJECT TRIP DISTRIBUTION
ARROW SITE - LIGHT VEHICLES

FIGURE
3D



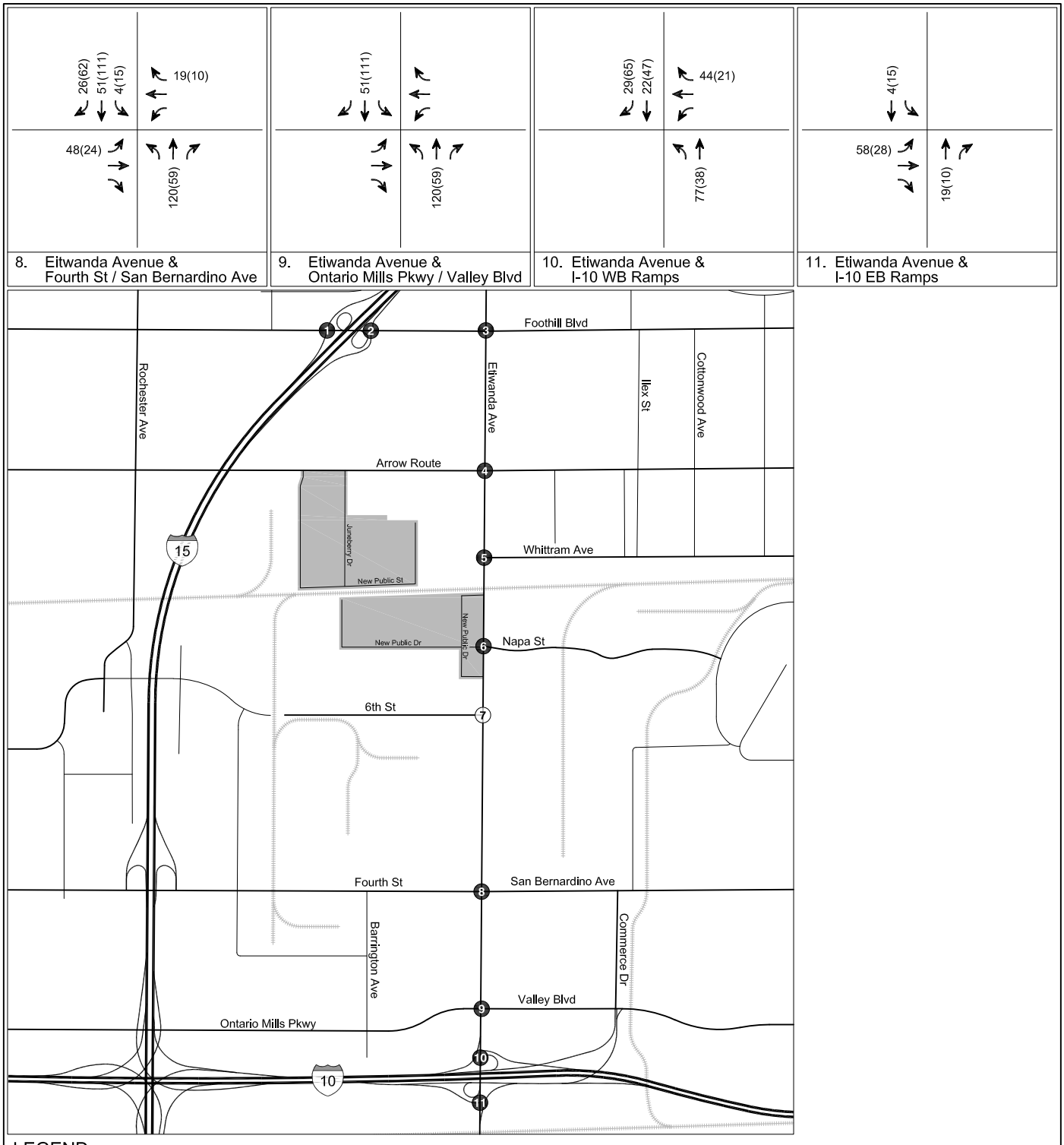
PROJECT TRIP DISTRIBUTION
ARROW SITE - LIGHT VEHICLES

FIGURE
3D (CONT.)



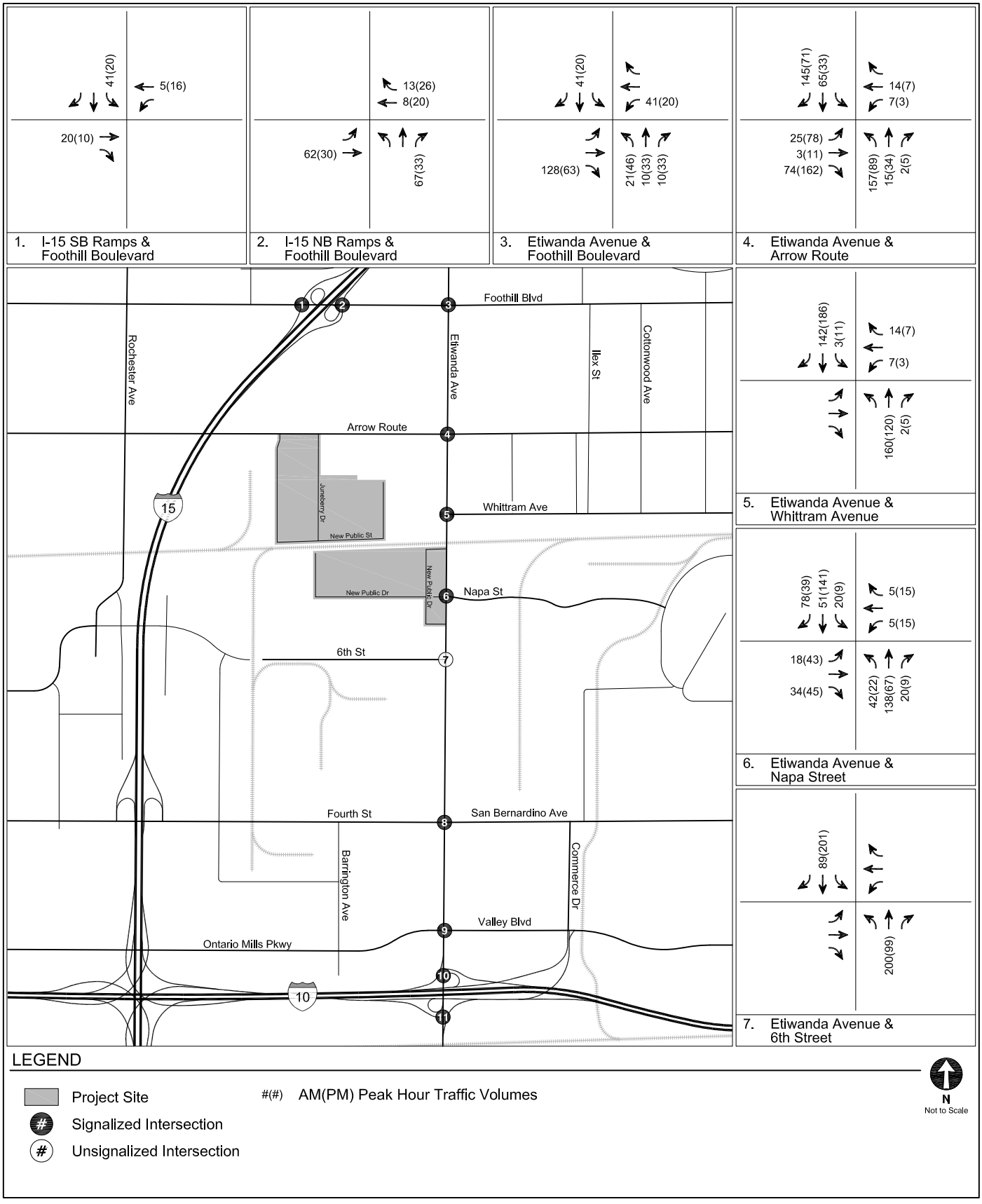
PROJECT-ONLY PHASE 1
PEAK HOUR TRAFFIC VOLUMES

FIGURE
4A



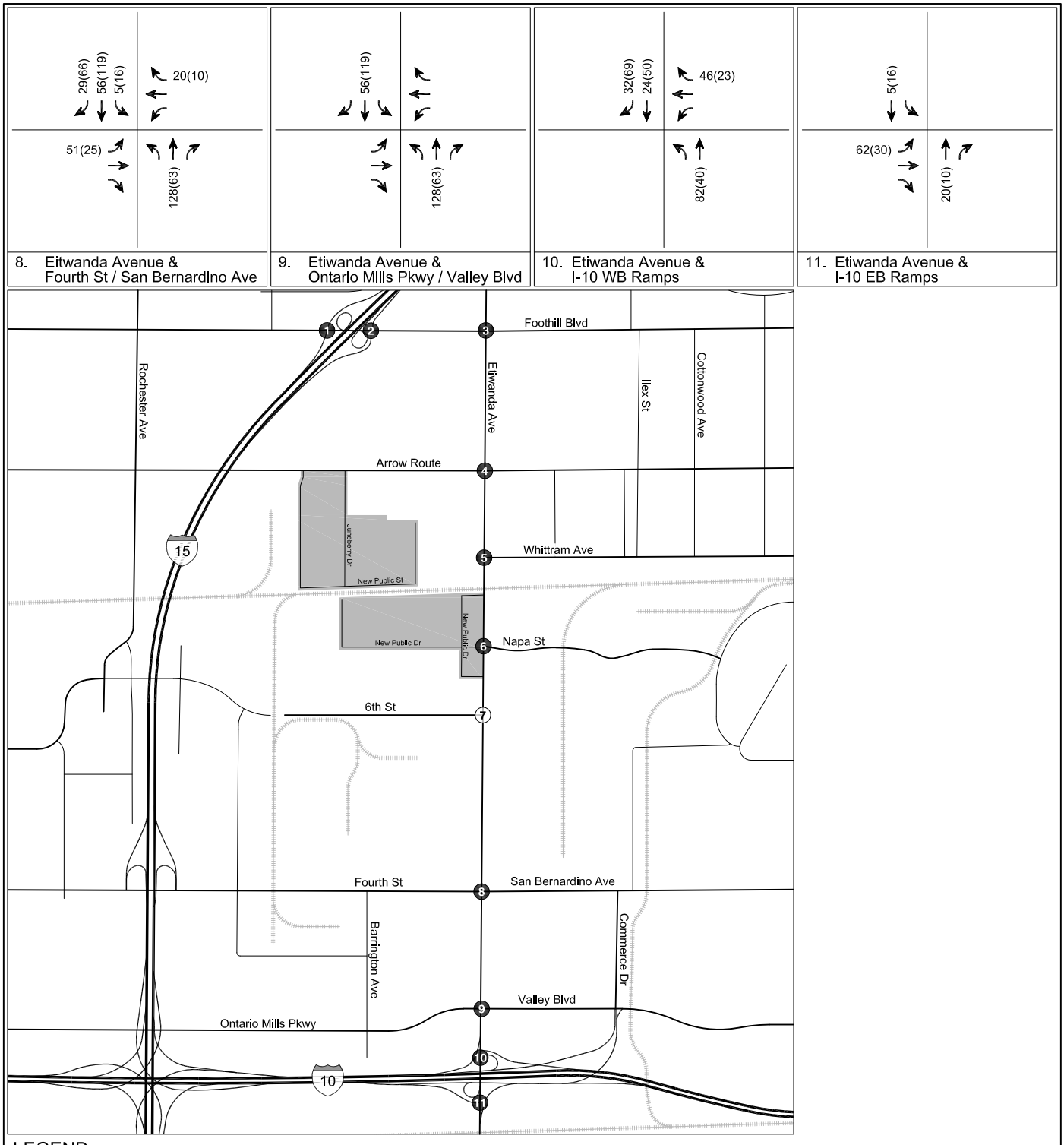
PROJECT-ONLY PHASE 1
PEAK HOUR TRAFFIC VOLUMES

FIGURE
4A (CONT.)



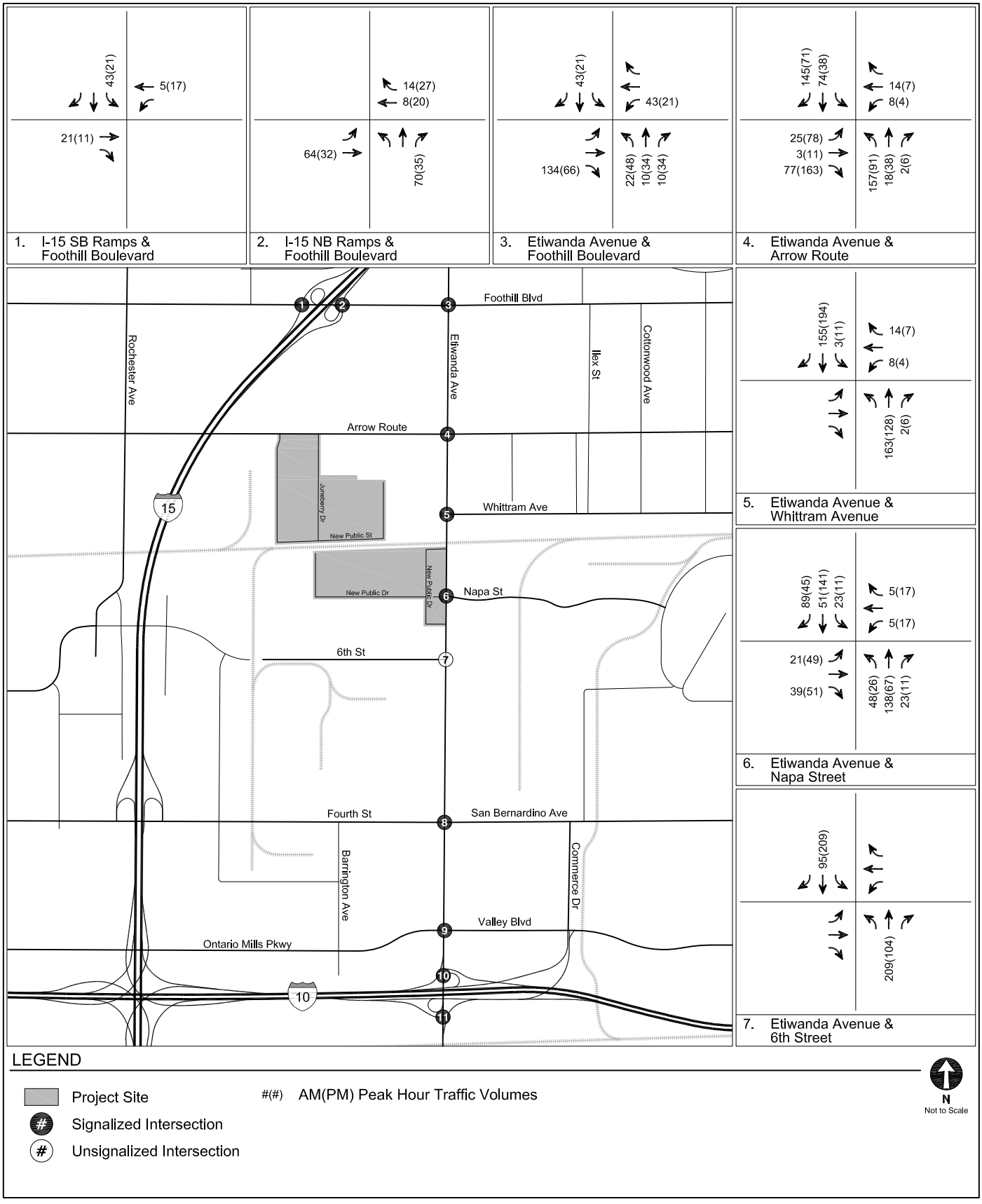
PROJECT-ONLY PHASE 2A
PEAK HOUR TRAFFIC VOLUMES

FIGURE
4B



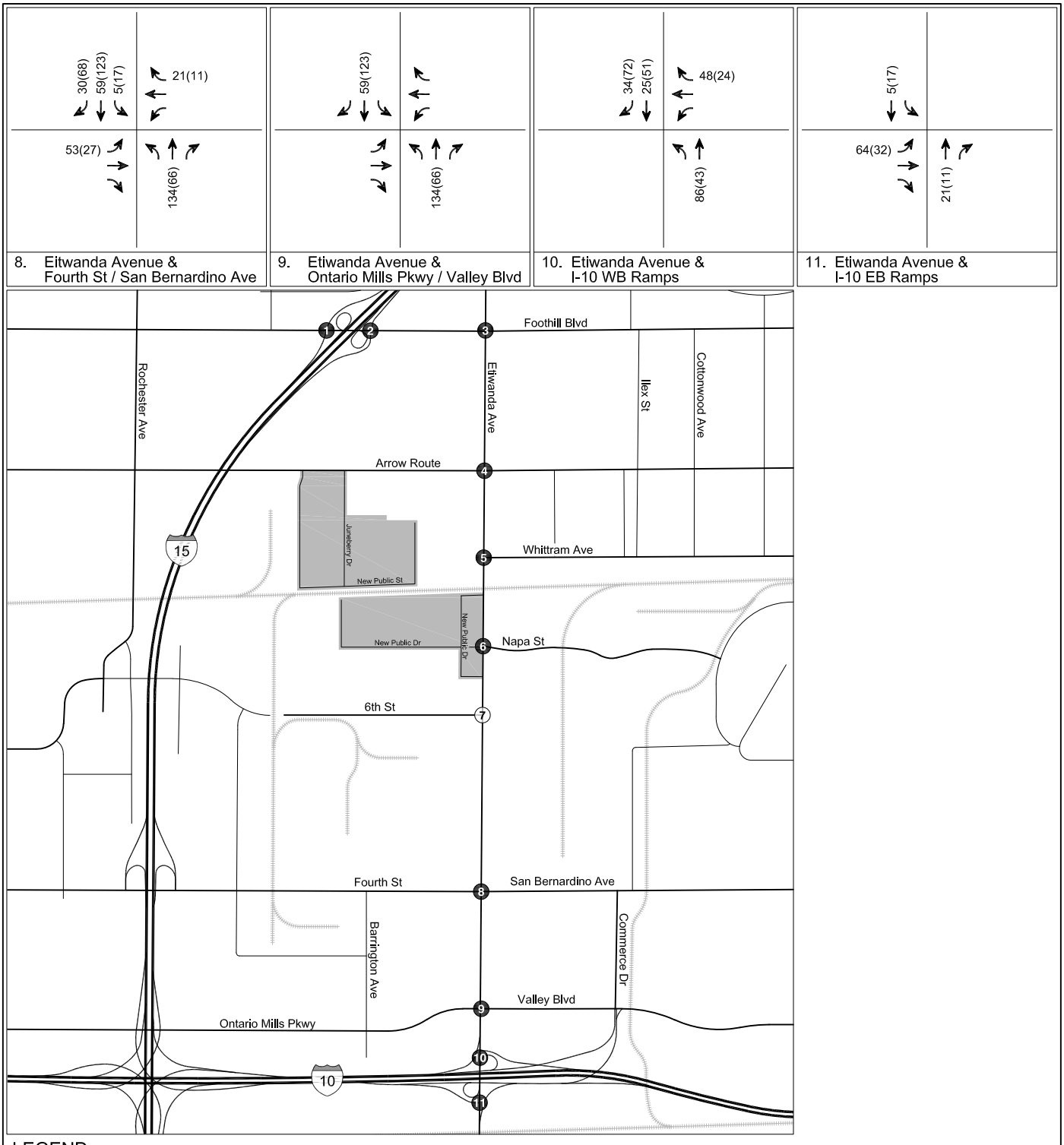
PROJECT-ONLY PHASE 2A
PEAK HOUR TRAFFIC VOLUMES

FIGURE
4B (CONT.)



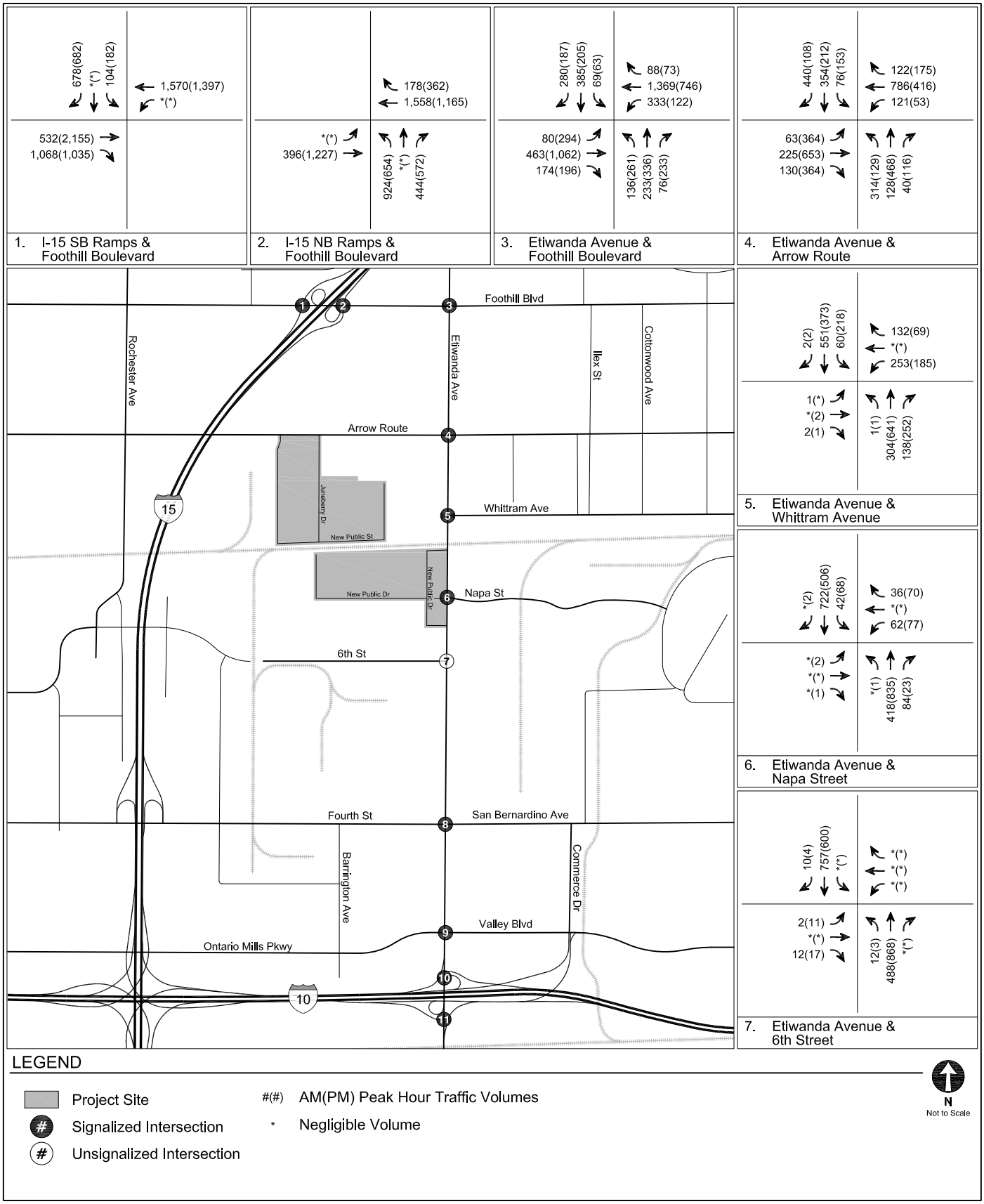
PROJECT-ONLY PHASE 2B
PEAK HOUR TRAFFIC VOLUMES

FIGURE
4C



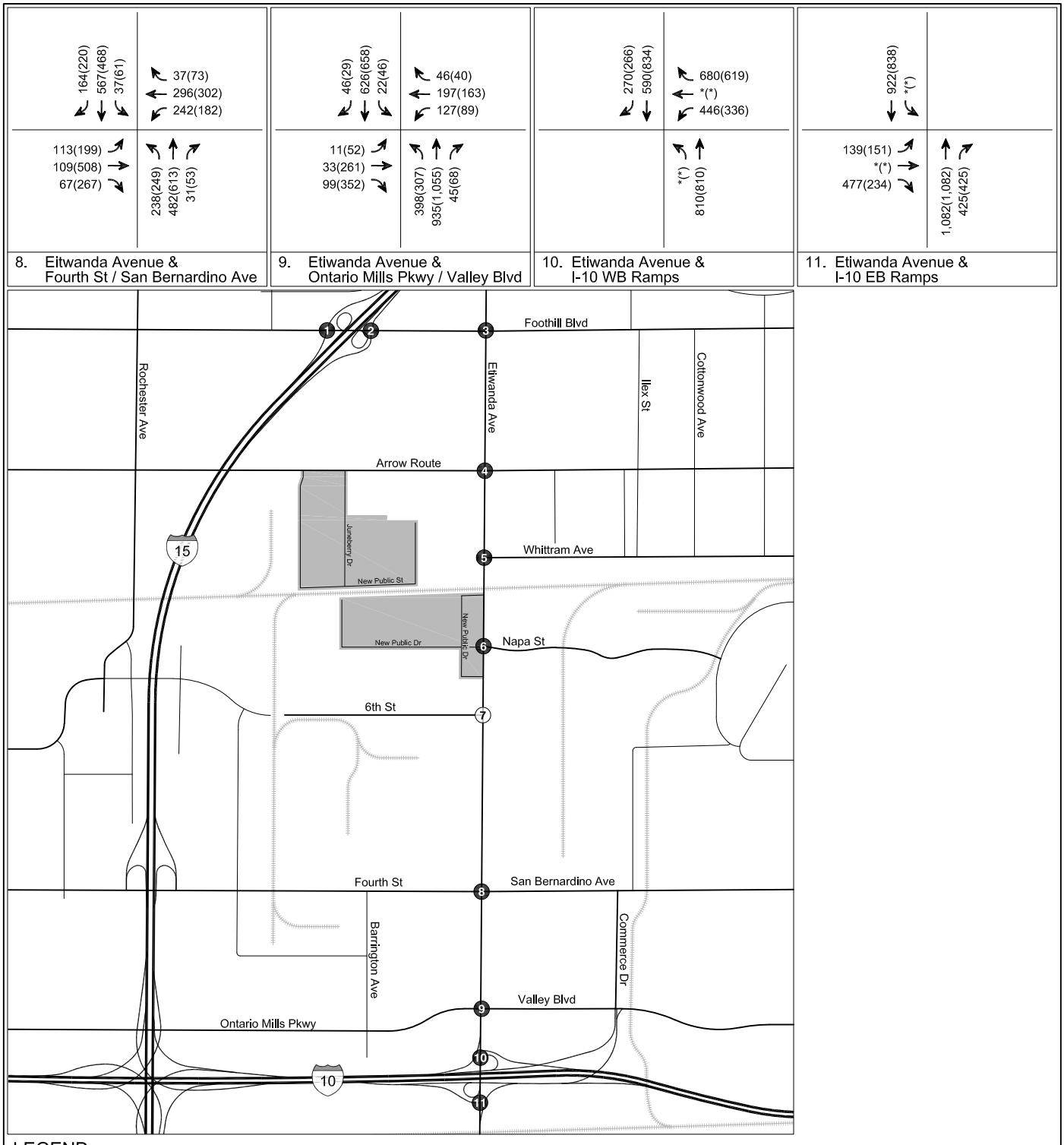
PROJECT-ONLY PHASE 2B
PEAK HOUR TRAFFIC VOLUMES

FIGURE
4C (CONT.)



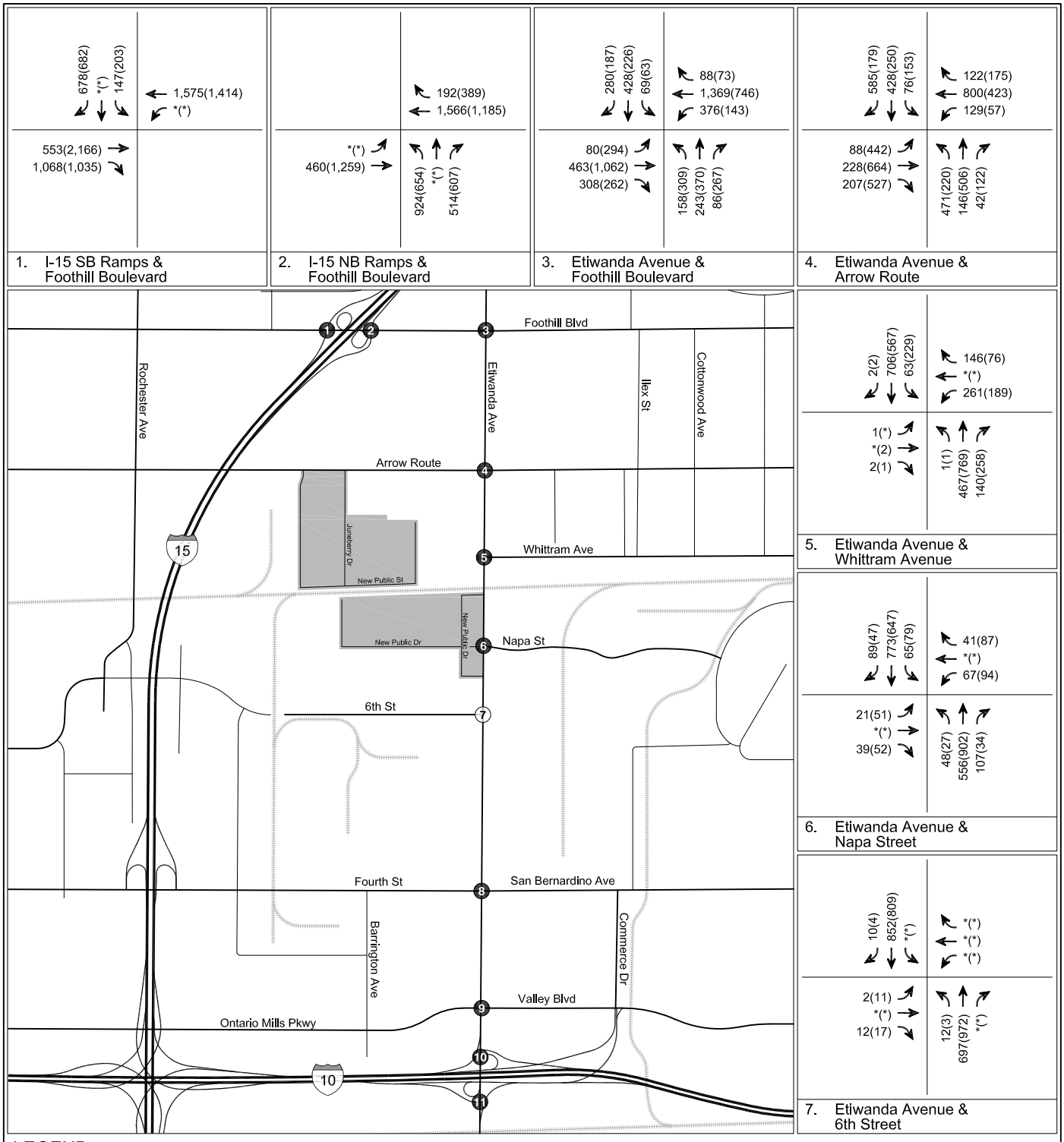
EXISTING CONDITIONS (YEAR 2022)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 5



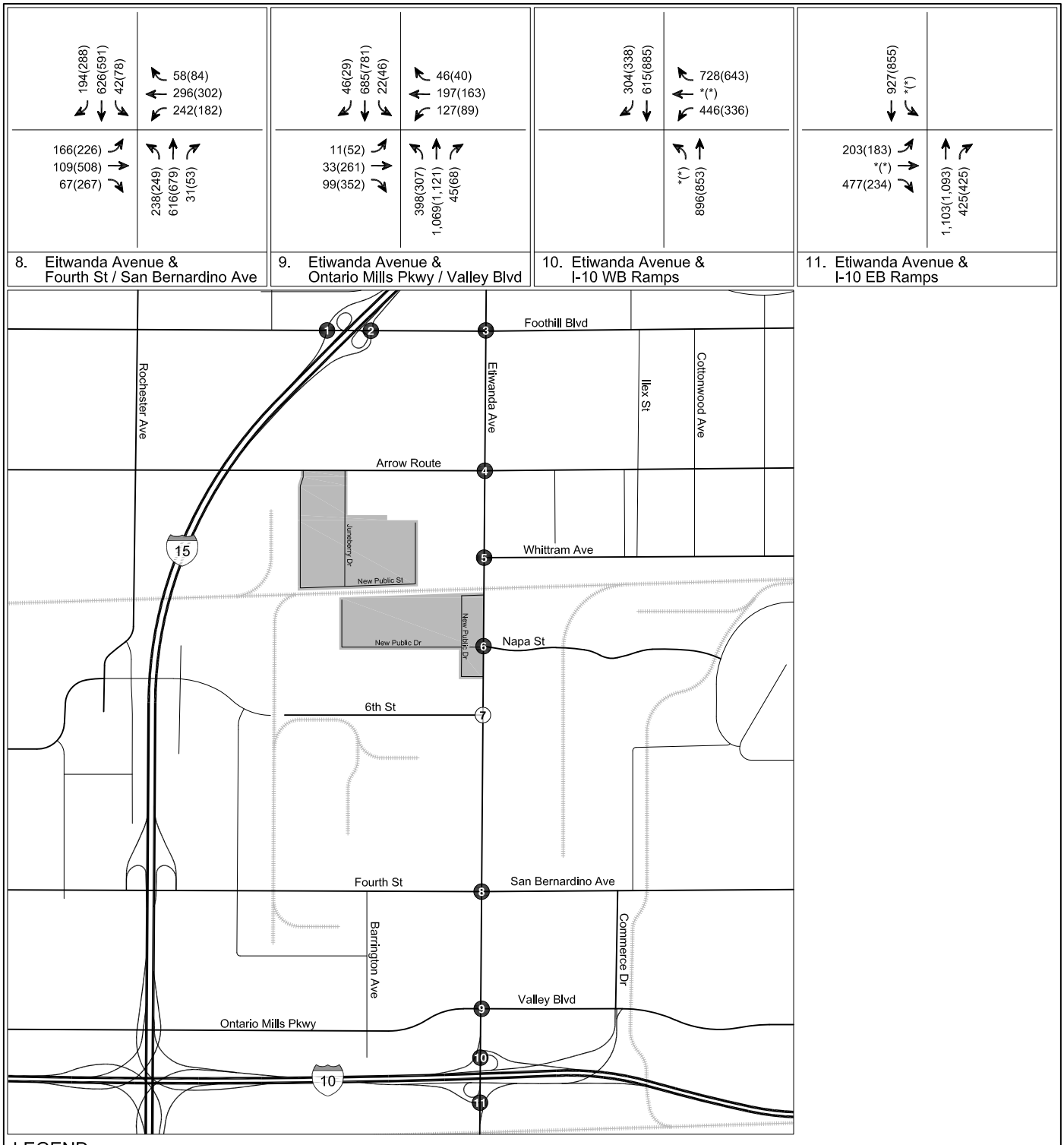
EXISTING CONDITIONS (YEAR 2022)
PEAK HOUR TRAFFIC VOLUMES

FIGURE
5 (CONT.)



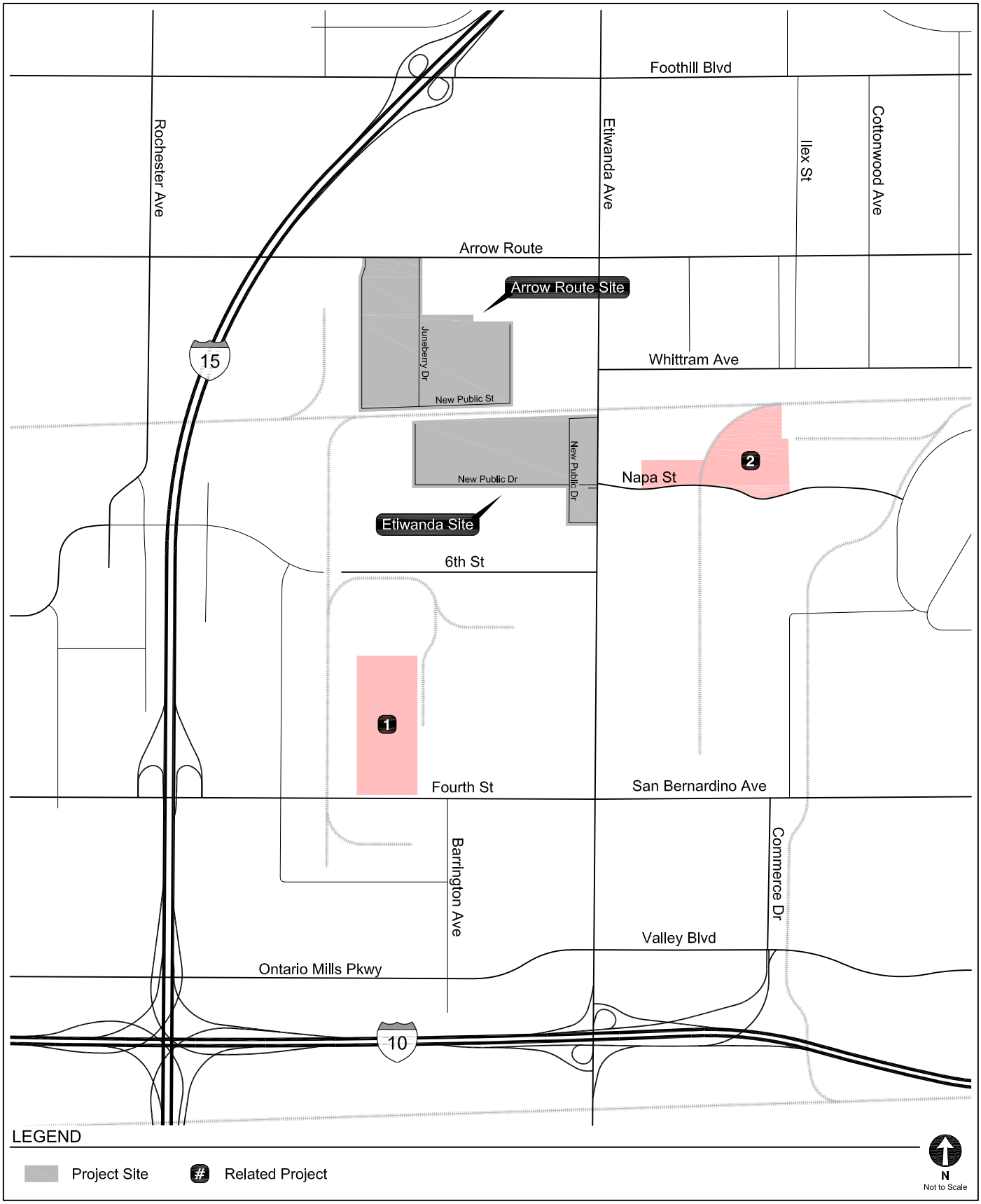
EXISTING WITH PROJECT PHASE 2B CONDITIONS (YEAR 2022)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 6



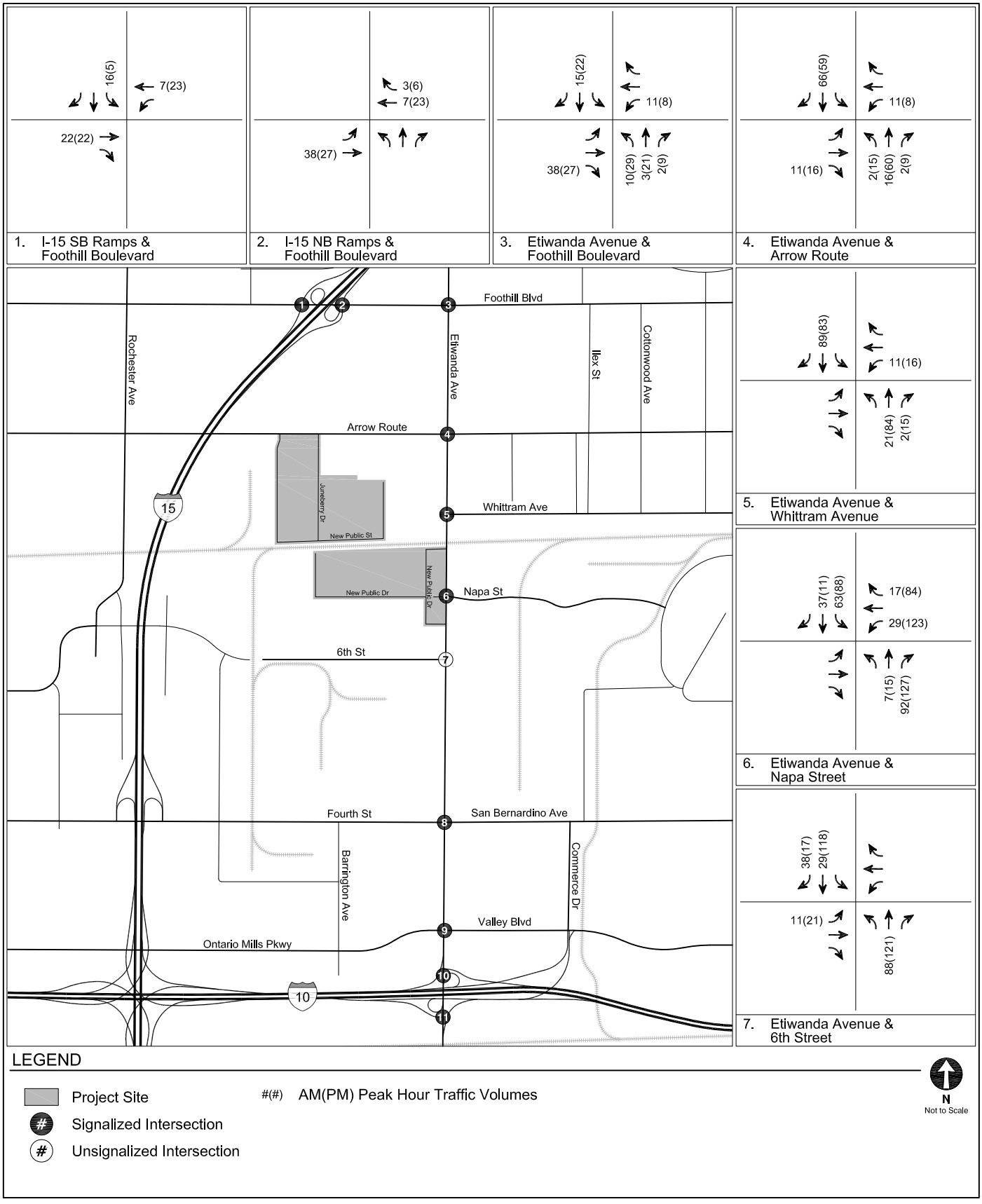
EXISTING WITH PROJECT PHASE 2B CONDITIONS (YEAR 2022)
PEAK HOUR TRAFFIC VOLUMES

FIGURE
6 (CONT.)



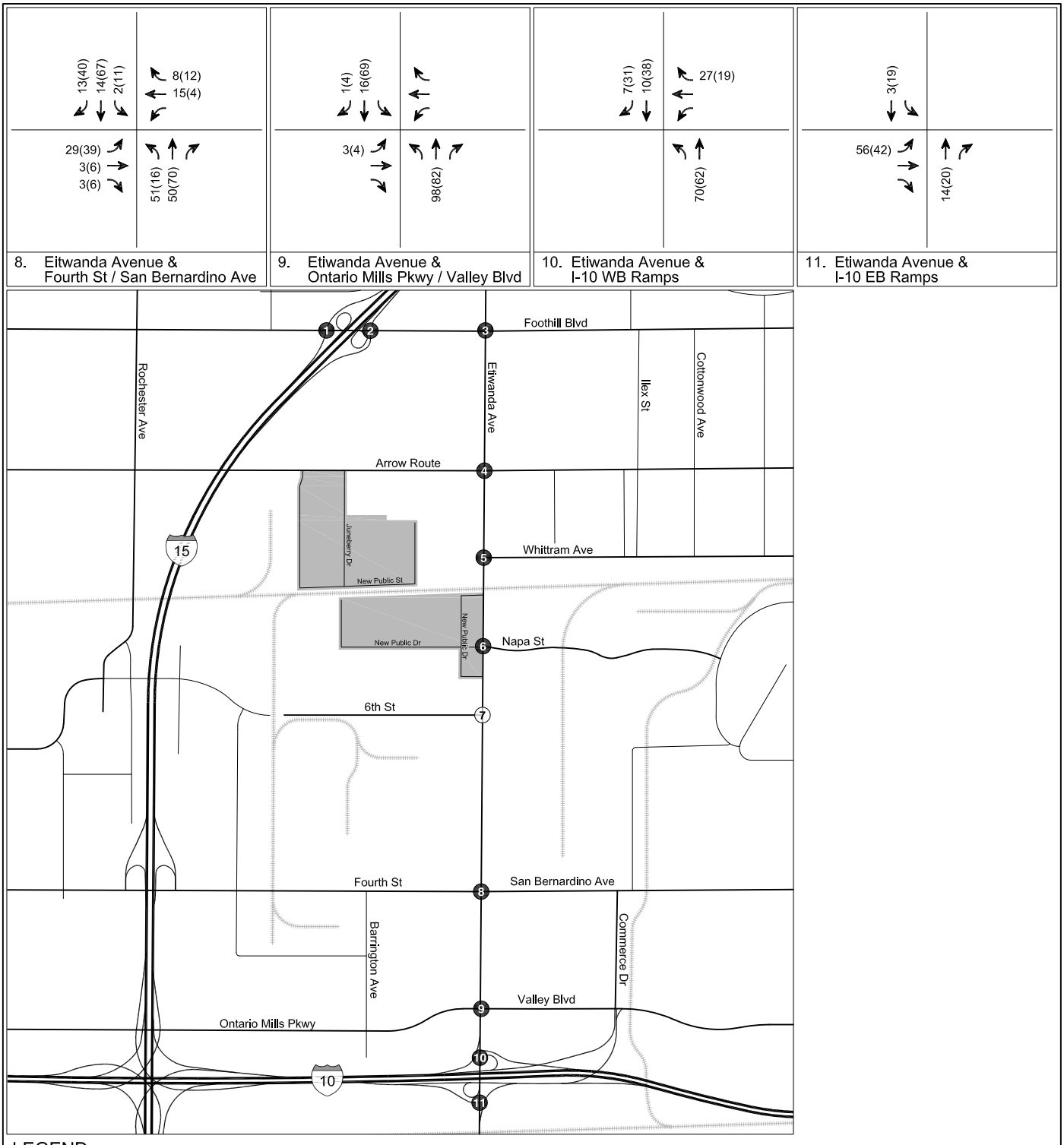
LOCATIONS OF RELATED PROJECTS

FIGURE 7



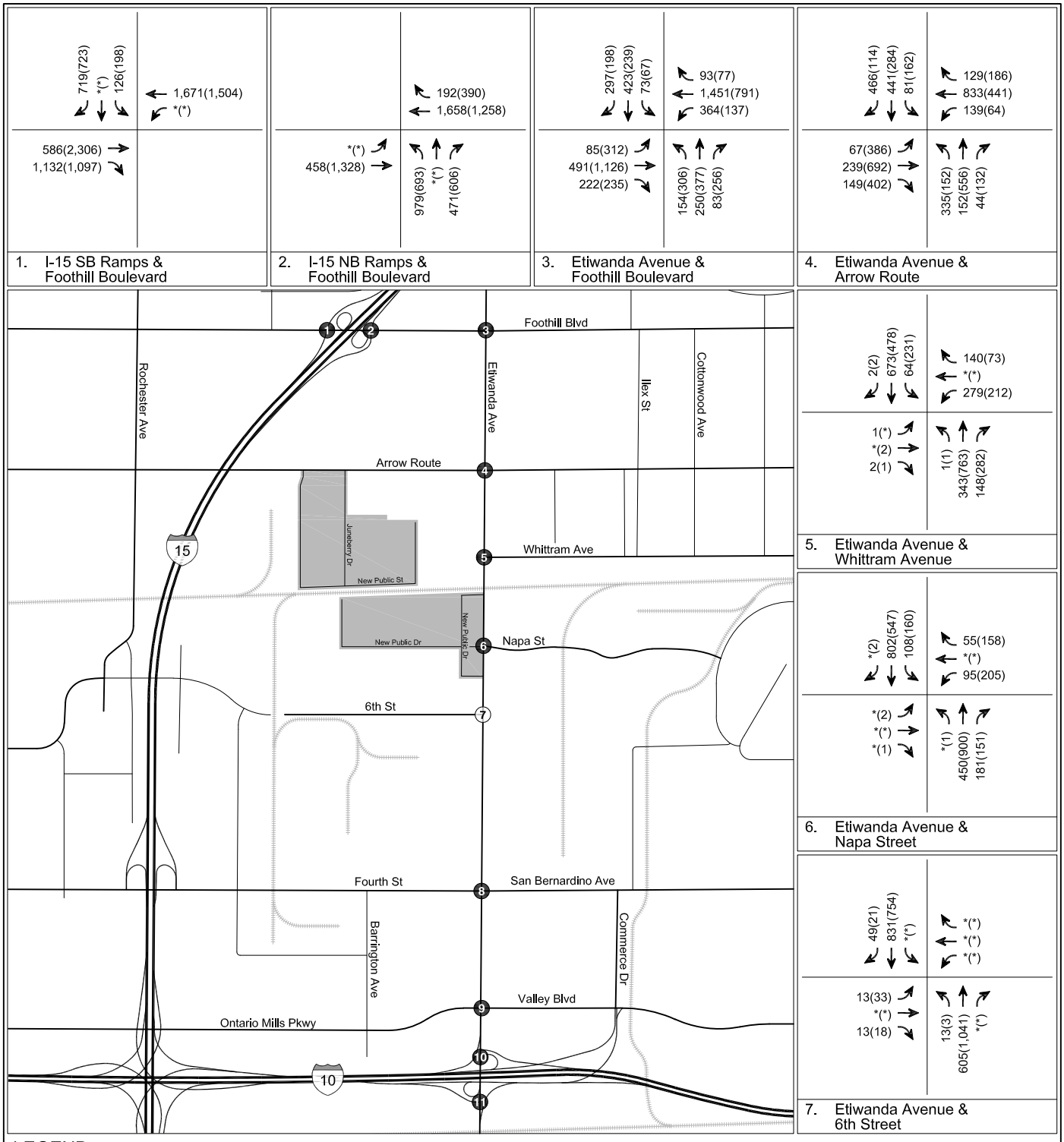
RELATED PROJECT
PEAK HOUR TRAFFIC VOLUMES

FIGURE
8



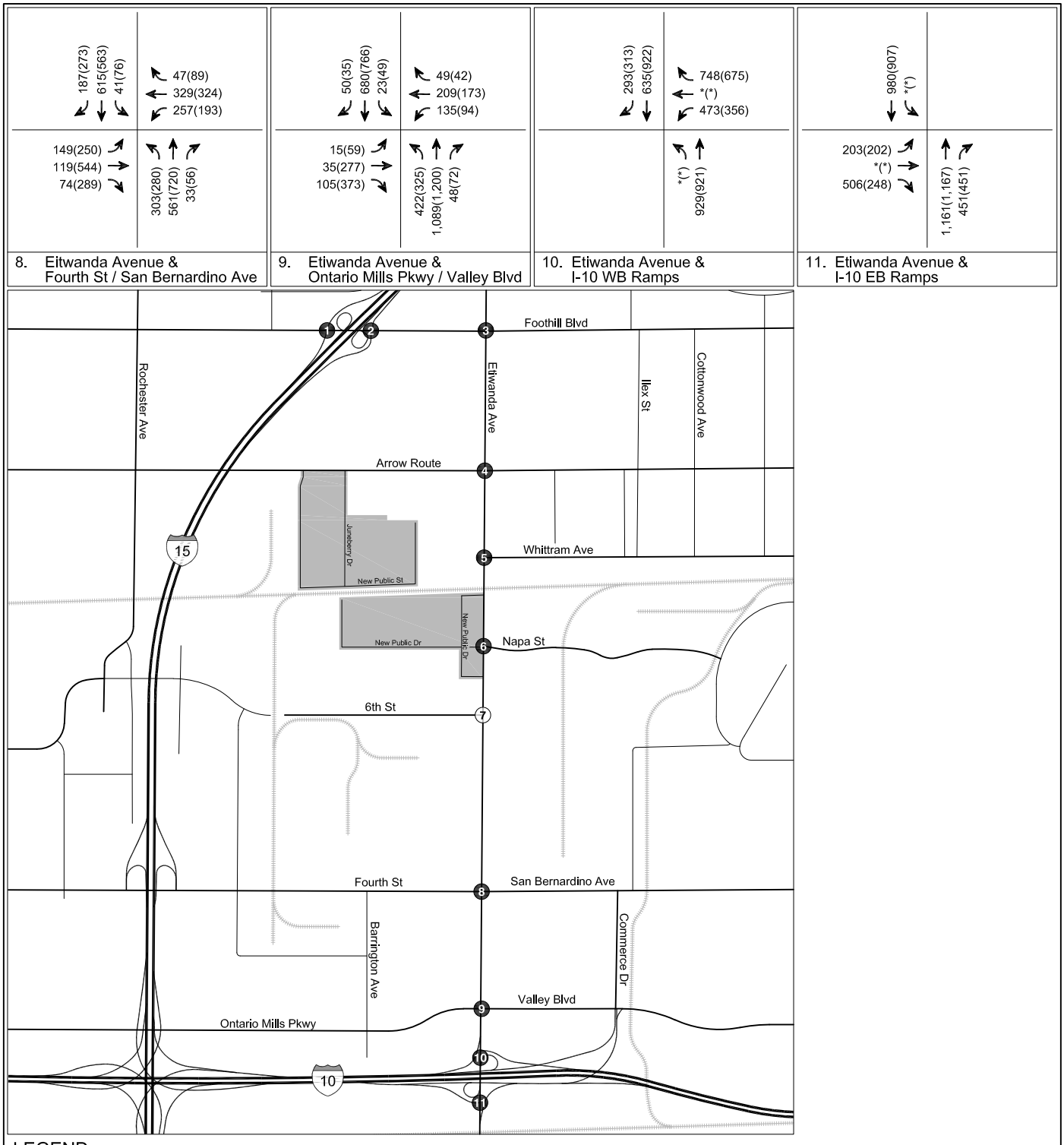
RELATED PROJECT
PEAK HOUR TRAFFIC VOLUMES

FIGURE
8 (CONT.)



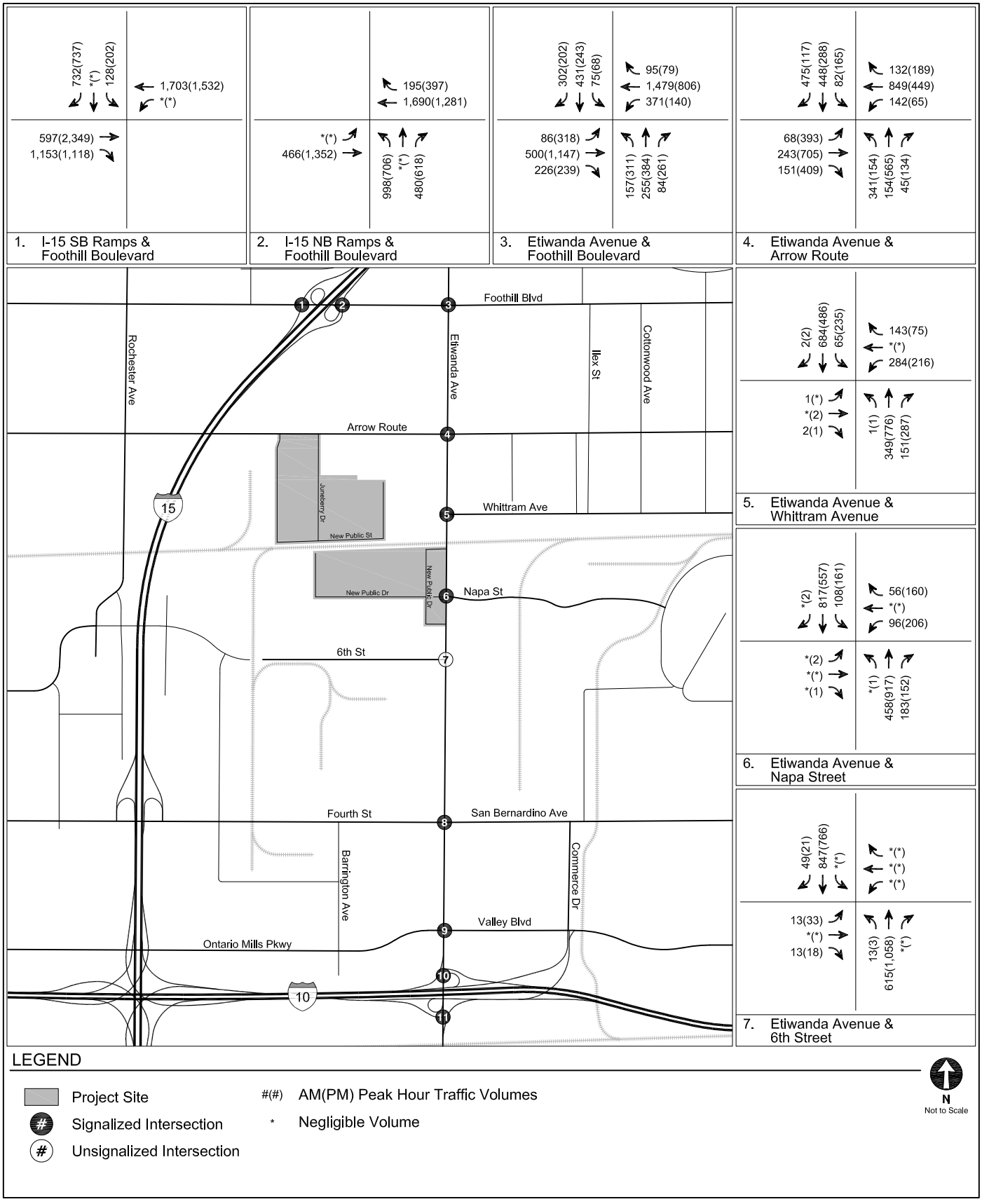
FUTURE WITHOUT PROJECT CONDITIONS (YEAR 2025)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 9A



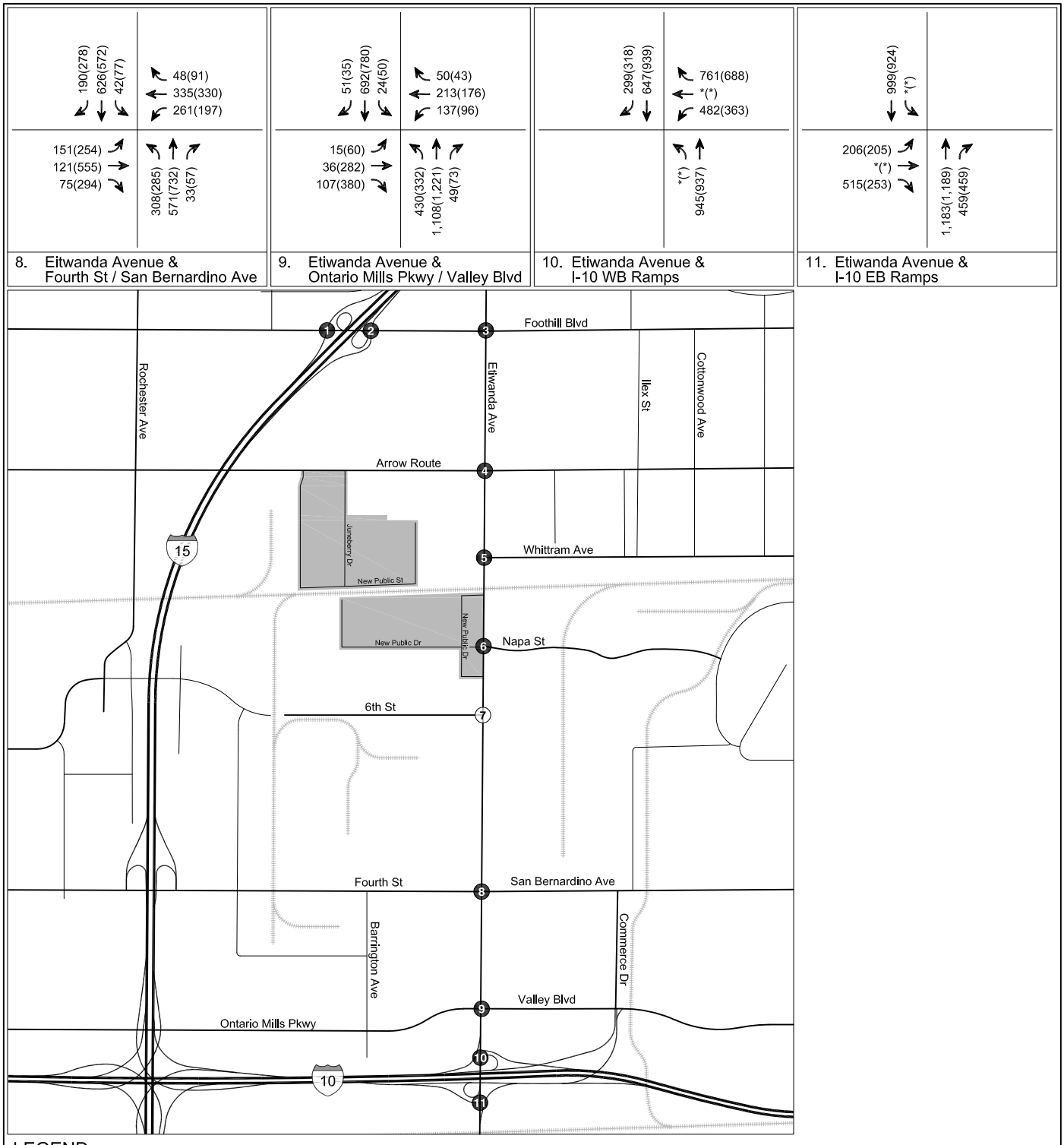
FUTURE WITHOUT PROJECT CONDITIONS (YEAR 2025)
PEAK HOUR TRAFFIC VOLUMES

FIGURE
9A (CONT.)



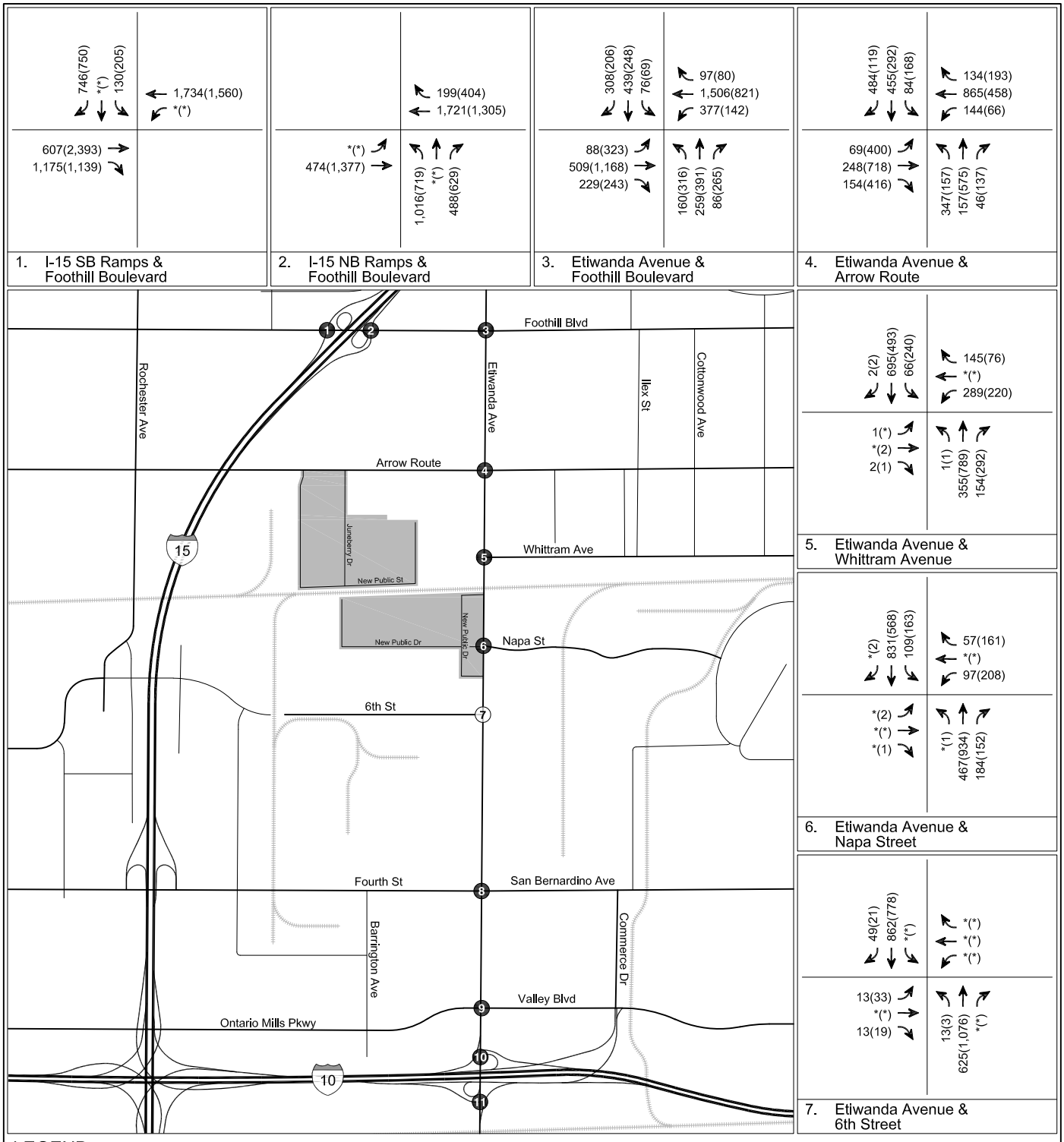
FUTURE WITHOUT PROJECT CONDITIONS (YEAR 2026)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 9B



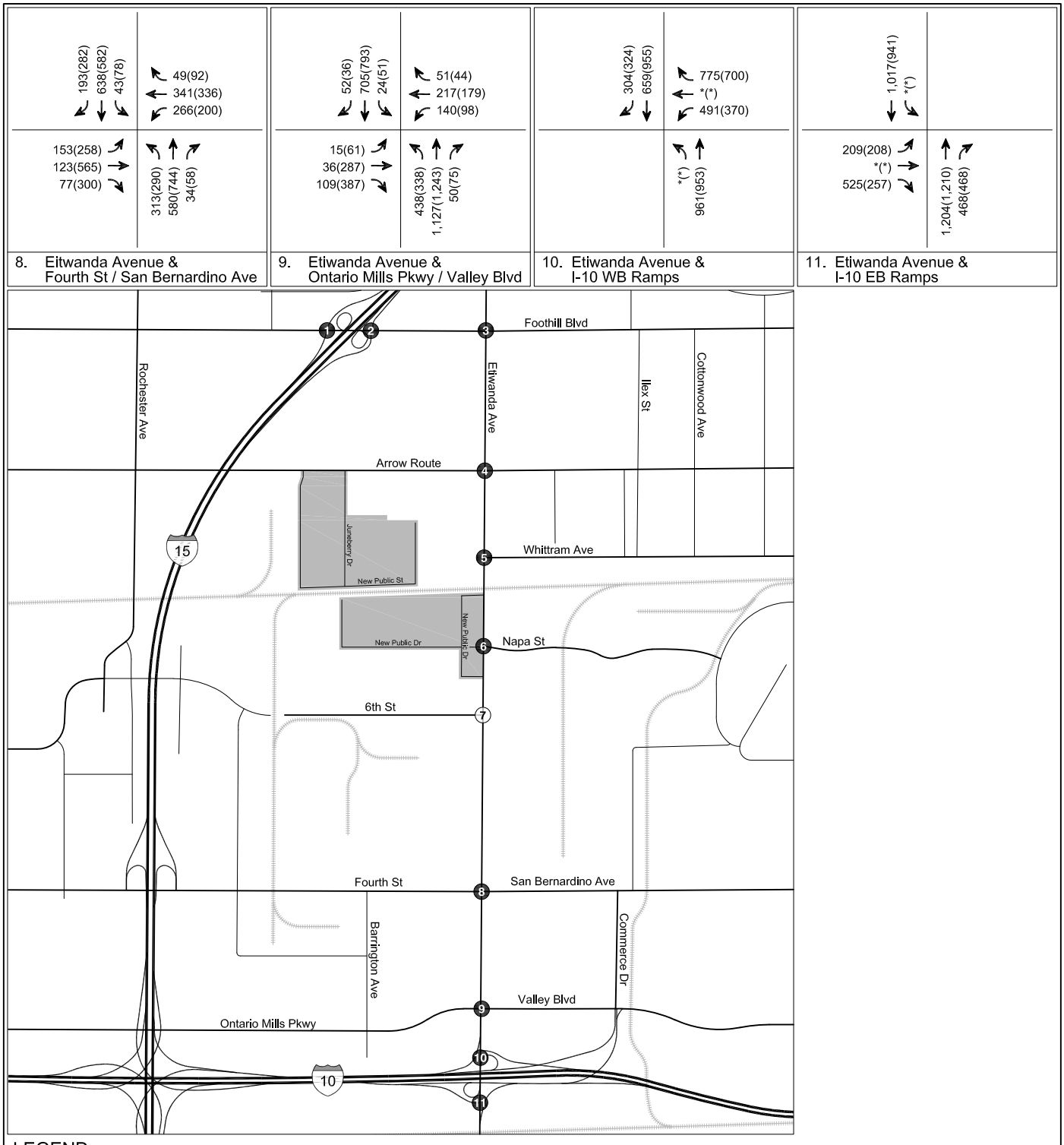
FUTURE WITHOUT PROJECT CONDITIONS (YEAR 2026)
PEAK HOUR TRAFFIC VOLUMES

FIGURE
9B (CONT.)



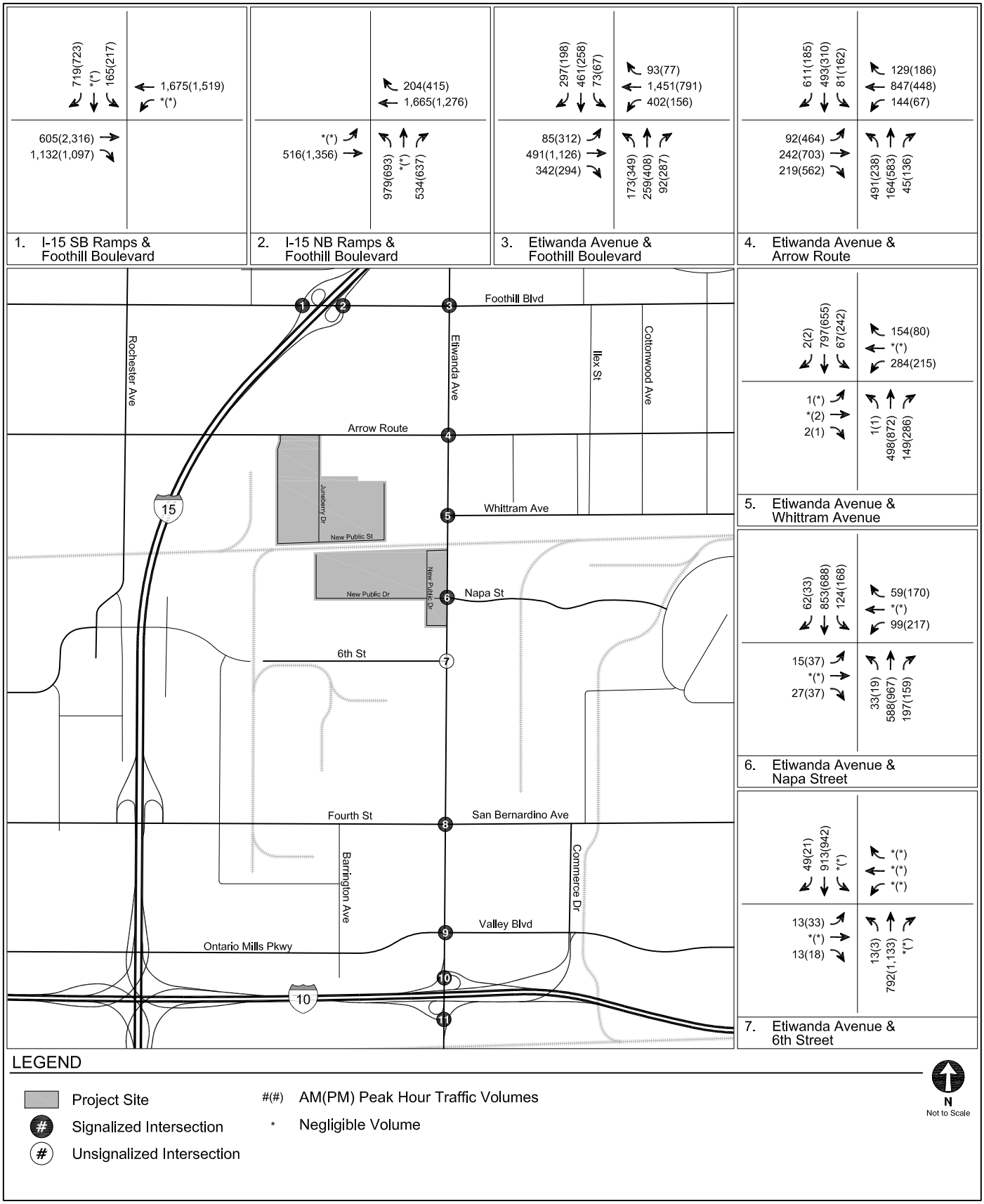
FUTURE WITHOUT PROJECT CONDITIONS (YEAR 2027)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 9C



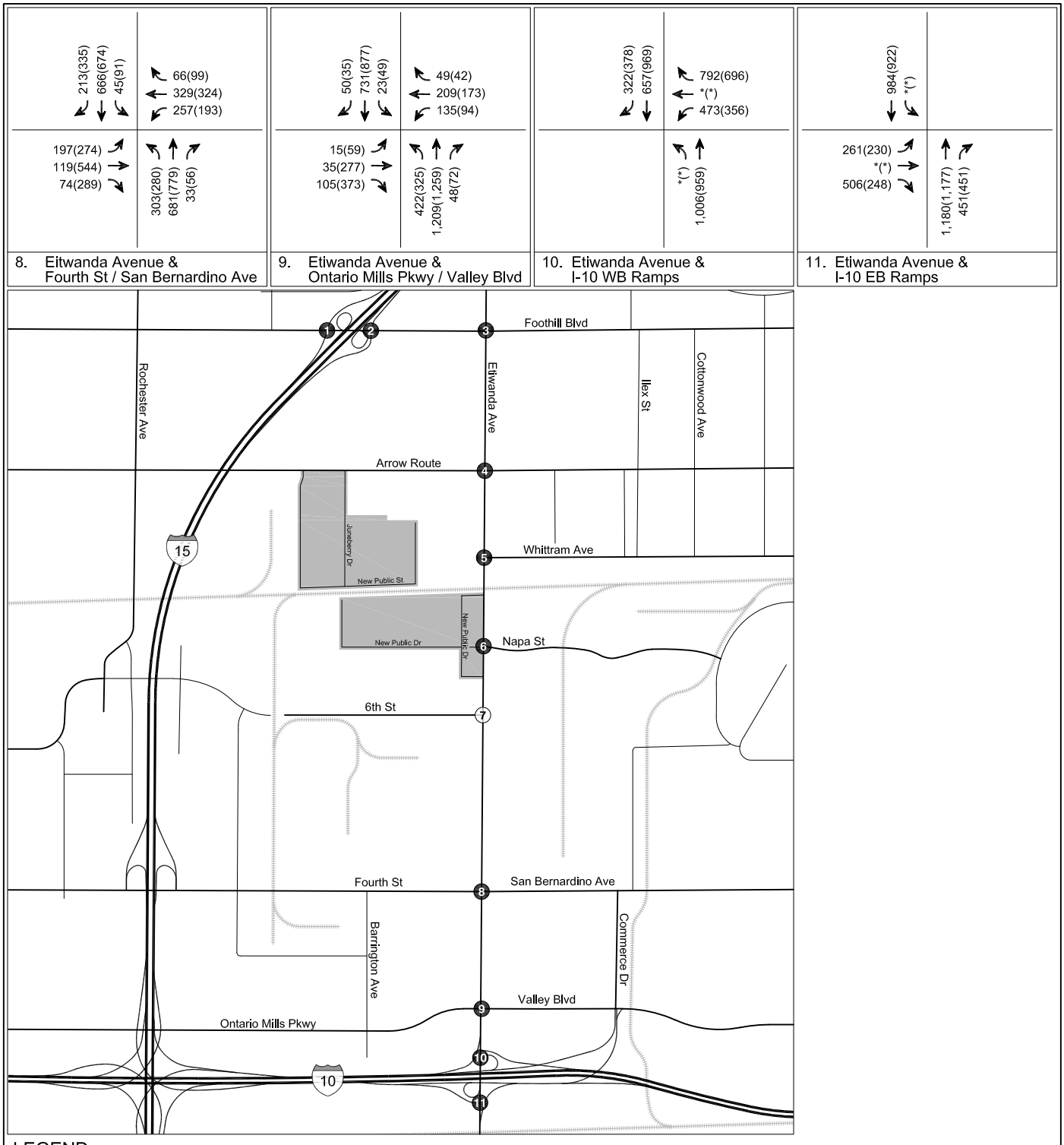
FUTURE WITHOUT PROJECT CONDITIONS (YEAR 2027)
PEAK HOUR TRAFFIC VOLUMES

FIGURE
9C (CONT.)



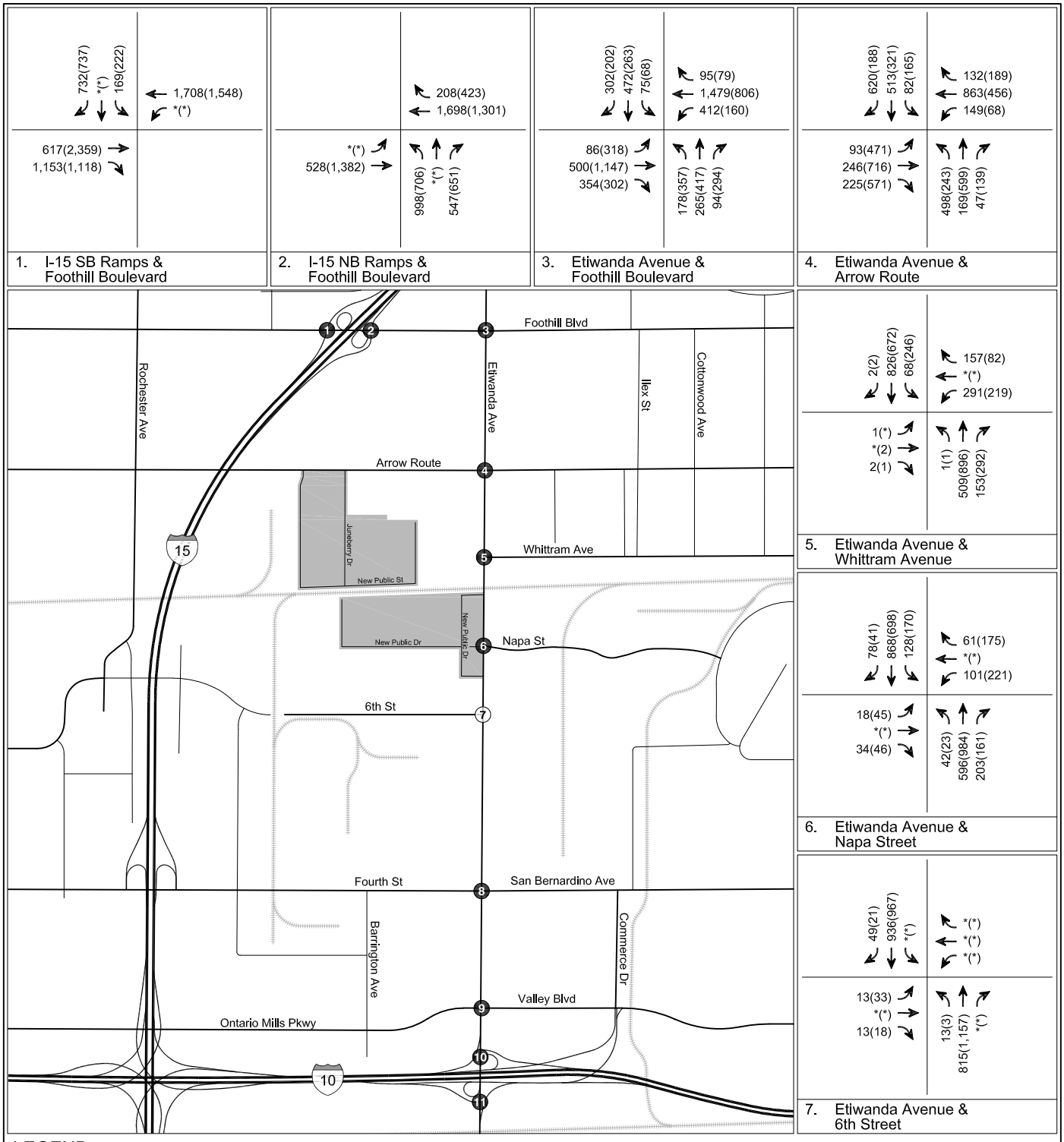
FUTURE WITH PROJECT PHASE 1 CONDITIONS (YEAR 2025)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 10A



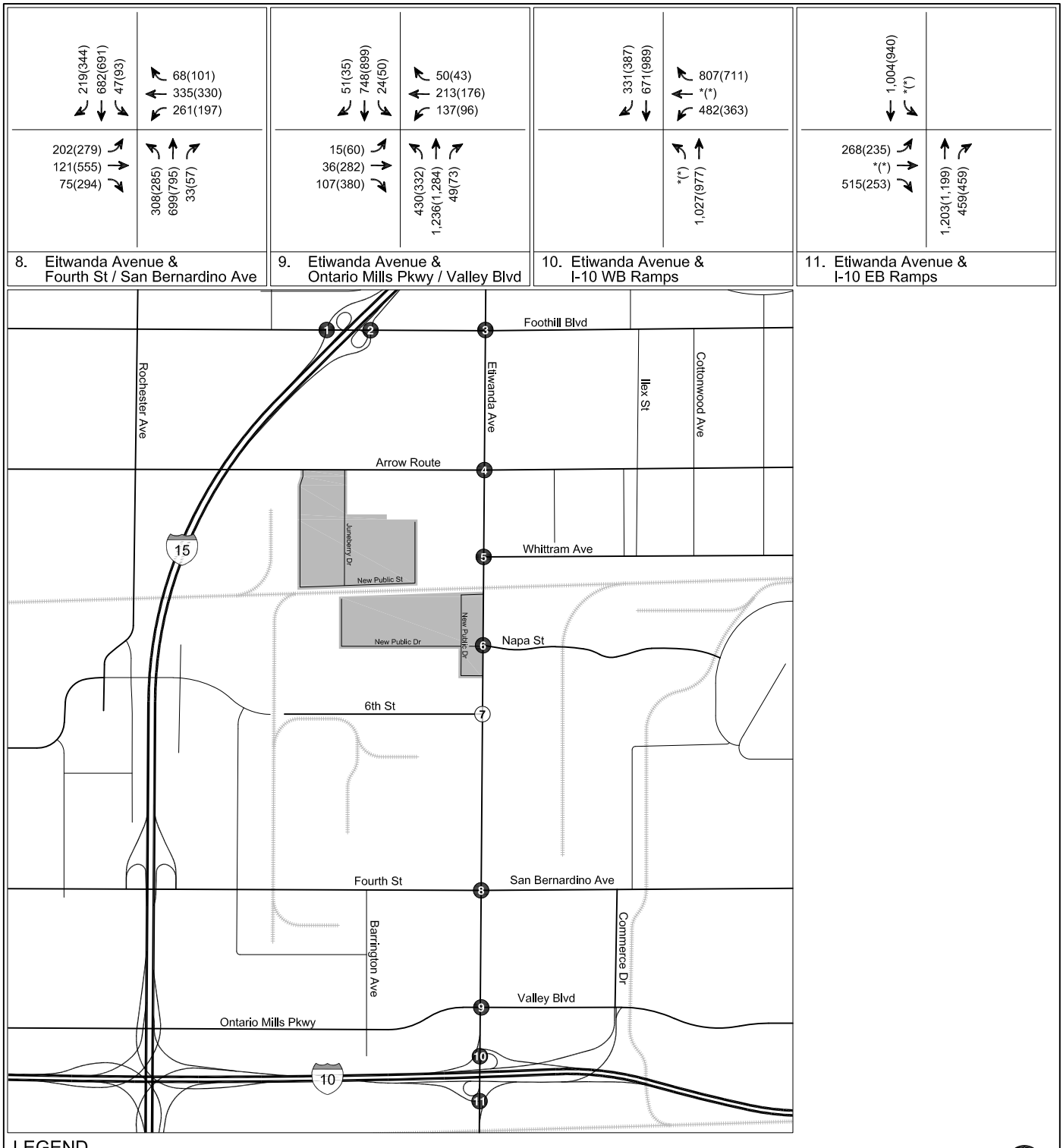
FUTURE WITH PROJECT PHASE 1 CONDITIONS (YEAR 2025)
PEAK HOUR TRAFFIC VOLUMES

FIGURE
10A (CONT.)



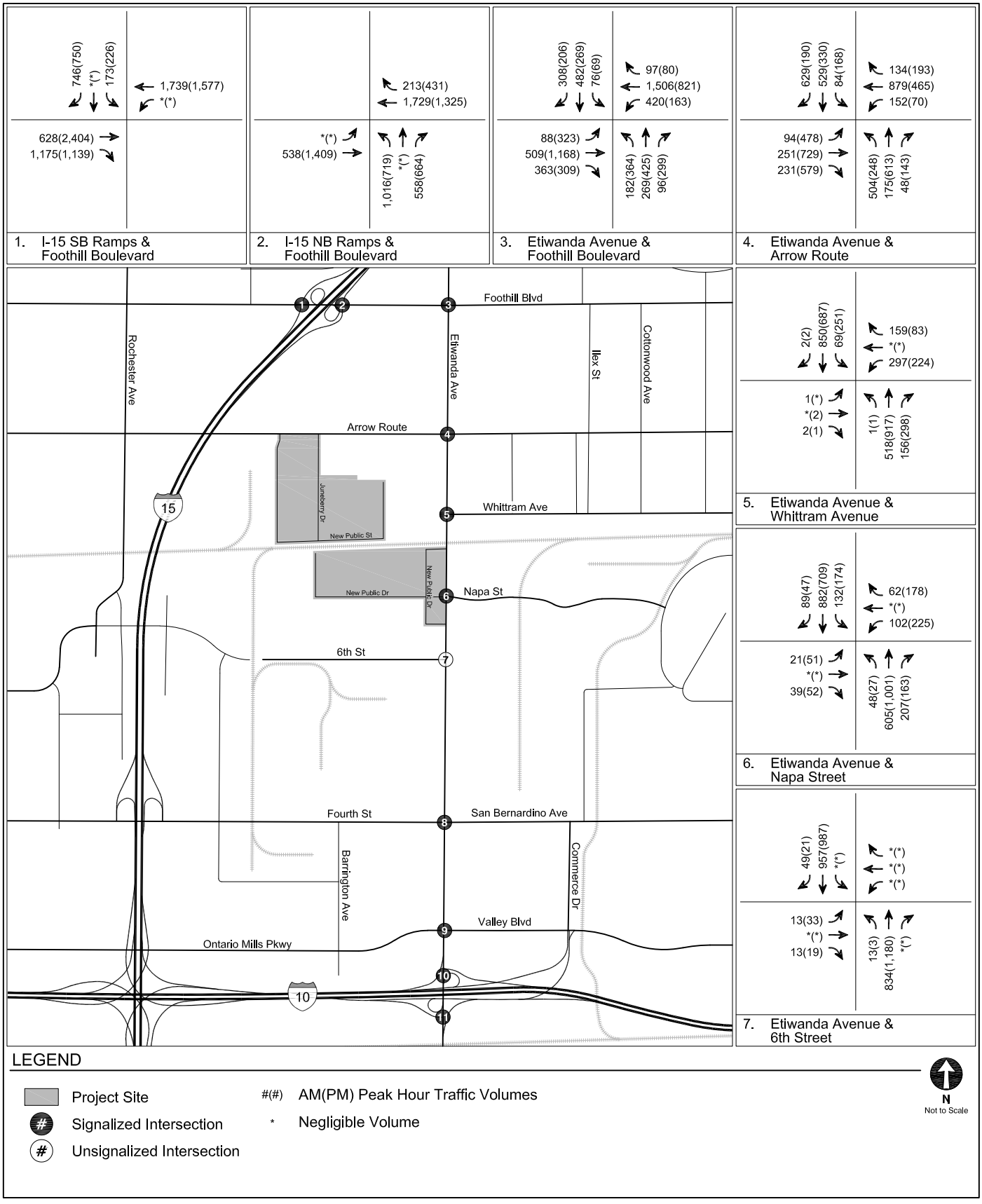
FUTURE WITH PROJECT PHASE 2A CONDITIONS (YEAR 2026)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 10B



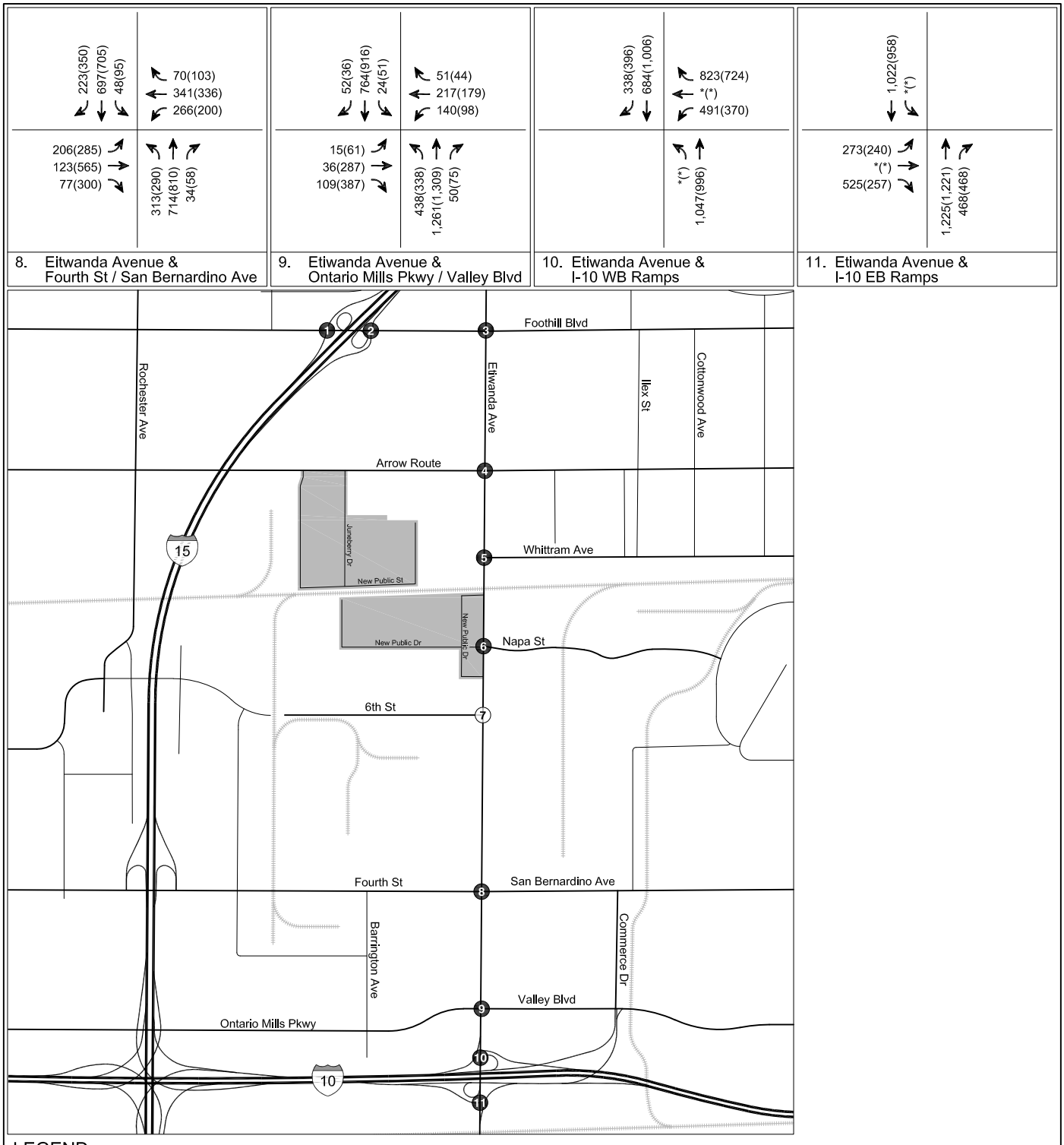
FUTURE WITH PROJECT PHASE 2A CONDITIONS (YEAR 2026)
PEAK HOUR TRAFFIC VOLUMES

FIGURE
10B (CONT.)



FUTURE WITH PROJECT PHASE 2B CONDITIONS (YEAR 2027)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 10C



FUTURE WITH PROJECT PHASE 2B CONDITIONS (YEAR 2027)
PEAK HOUR TRAFFIC VOLUMES

FIGURE
10C (CONT.)

TABLE 1A
TRIP GENERATION ESTIMATE
ETIWANDA AND ARROW ROUTE WAREHOUSE DEVELOPMENTS - PHASE 1

Land Use	ITE Land Use	Trip Rate	Daily	Morning Peak Hour			Afternoon Peak Hour		
				In	Out	Total	In	Out	Total
Trip Generation Rates (vehicles) [a]									
High-Cube Fulfillment Center (non-sorting)	155	per ksf	2.040			0.170			0.160
Light Vehicles			1.810	0.122	0.029	0.150	0.058	0.091	0.149
Trucks			0.230	0.010	0.010	0.020	0.005	0.006	0.011
High-Cube Cold Storage Warehouse	157	per ksf	2.870			0.140			0.150
Light Vehicles			2.120	0.089	0.021	0.110	0.047	0.073	0.120
Trucks			0.750	0.010	0.020	0.030	0.020	0.010	0.030
Trip Generation Rates (PCE adjusted) [b]									
High-Cube Fulfillment Center (non-sorting)	155	per ksf	2.385			0.200			0.177
Light Vehicles			1.810	0.122	0.029	0.150	0.058	0.091	0.149
Trucks			0.575	0.025	0.025	0.050	0.013	0.015	0.028
High-Cube Cold Storage Warehouse	157	per ksf	3.995			0.185			0.195
Light Vehicles			2.120	0.089	0.021	0.110	0.047	0.073	0.120
Trucks			1.875	0.025	0.050	0.075	0.050	0.025	0.075
Arrow Route Site - Full Buildout [c, d]				Building 1 - 88,400 sf ; Building 2 - 91,520 sf ; Building 3 - 64,060 sf ; Building 4 - 1,048,530 sf ; Building 5 - 501,280 sf					
Total Area		1,793.790 ksf							
High-Cube Fulfillment Center (non-sorting)	90%	1,614.411 ksf							
Light Vehicles			2,922	196	46	242	94	147	241
Trucks			928	40	41	81	21	24	45
High-Cube Cold Storage Warehouse	10%	179.379 ksf							
Light Vehicles			380	16	4	20	8	14	22
Trucks			336	4	9	13	9	4	13
Subtotal Arrow Route Site			*4,566*	*256*	*100*	*356*	*132*	*189*	*321*
Newcastle Project [c, e]									
Total Area		327.000 ksf							
High-Cube Fulfillment Center (non-sorting)	90%	294.300 ksf							
Light Vehicles			533	36	8	44	17	27	44
Trucks			169	7	8	15	4	4	8
High-Cube Cold Storage Warehouse	10%	32.700 ksf							
Light Vehicles			69	3	1	4	2	2	4
Trucks			61	1	1	2	2	0	2
Subtotal Newcastle Project			*832*	*47*	*18*	*65*	*25*	*33*	*58*
Etiwanda Site - Phase 1 [c, f]				Building 1 - 669,237 sf ; Building 2 - 127,343 sf ; Building 5 - 86,951 sf					
Total Area		883.531 ksf							
High-Cube Fulfillment Center (non-sorting)	90%	795.178 ksf							
Light Vehicles			1,439	97	22	119	46	72	118
Trucks			457	20	20	40	10	12	22
High-Cube Cold Storage Warehouse	10%	88.353							
Light Vehicles			187	8	2	10	4	7	11
Trucks			166	2	5	7	4	3	7
Subtotal Etiwanda Site			*2,249*	*127*	*49*	*176*	*64*	*94*	*158*
TOTAL PCE TRIPS - PROJECT PHASE 1 with Newcastle Project			**7,647**	**430**	**167**	**597**	**221**	**316**	**537**
Fleet Mix Comparison (PCE trips)									
Light Vehicles			5,530	356	83	439	171	269	440
Trucks			2,117	74	84	158	50	47	97

Notes:

ksf: 1,000 square feet

[a] Trip rates by vehicle type (light vehicle vs truck) as indicated in *Trip Generation, 11th Edition* (Institute of Transportation Engineers, 2021). Total trip rates is provided for reference.

[b] The truck trip rates were adjusted by the Passenger Car Equivalent (PCE) factor of 2.5 light vehicles per truck. The total trip rate is provided for reference, as the trip rate of the vehicle type was applied.

[c] Consistent with *Etiwanda Due Diligence Traffic Assessment* , the total building area on each site is assumed to operate as 90% high-cube fulfillment center and 10% high-cube cold storage warehouse.

[d] The Arrow Route Site assumes completion of the full land use program as part of the overall Phase 1 of the Project.

[e] The Newcastle Project is a separate development but is included here due to the proximity and anticipated concurrent development with the Arrow Route Site.

[f] The Etiwanda Site, Phase 1 includes development of Buildings 1, 2, and 5.

TABLE 1B
TRIP GENERATION ESTIMATE
ETIWANDA AND ARROW ROUTE WAREHOUSE DEVELOPMENTS - PHASES 1 + 2A

Land Use	ITE Land Use	Trip Rate	Daily	Morning Peak Hour			Afternoon Peak Hour		
				In	Out	Total	In	Out	Total
Trip Generation Rates (vehicles) [a]									
High-Cube Fulfillment Center (non-sorting)	155	per ksf	2.040			0.170			0.160
Light Vehicles			1.810	0.122	0.029	0.150	0.058	0.091	0.149
Trucks			0.230	0.010	0.010	0.020	0.005	0.006	0.011
High-Cube Cold Storage Warehouse	157	per ksf	2.870			0.140			0.150
Light Vehicles			2.120	0.089	0.021	0.110	0.047	0.073	0.120
Trucks			0.750	0.010	0.020	0.030	0.020	0.010	0.030
Trip Generation Rates (PCE adjusted) [b]									
High-Cube Fulfillment Center (non-sorting)	155	per ksf	2.385			0.200			0.177
Light Vehicles			1.810	0.122	0.029	0.150	0.058	0.091	0.149
Trucks			0.575	0.025	0.025	0.050	0.013	0.015	0.028
High-Cube Cold Storage Warehouse	157	per ksf	3.995			0.185			0.195
Light Vehicles			2.120	0.089	0.021	0.110	0.047	0.073	0.120
Trucks			1.875	0.025	0.050	0.075	0.050	0.025	0.075
Arrow Route Site - Full Buildout [c, d]	Total Area	1,793.790 ksf	Building 1 - 88,400 sf ; Building 2 - 91,520 sf ; Building 3 - 64,060 sf ; Building 4 - 1,048,530 sf ; Building 5 - 501,280 sf						
High-Cube Fulfillment Center (non-sorting)	90%	1,614.411 ksf							
Light Vehicles			2,922	196	46	242	94	147	241
Trucks			928	40	41	81	21	24	45
High-Cube Cold Storage Warehouse	10%	179.379 ksf							
Light Vehicles			380	16	4	20	8	14	22
Trucks			336	4	9	13	9	4	13
		Subtotal Arrow Route Site	*4,566*	*256*	*100*	*356*	*132*	*189*	*321*
Newcastle Project [c, e]	Total Area	327.000 ksf							
High-Cube Fulfillment Center (non-sorting)	90%	294.300 ksf							
Light Vehicles			533	36	8	44	17	27	44
Trucks			169	7	8	15	4	4	8
High-Cube Cold Storage Warehouse	10%	32.700 ksf							
Light Vehicles			69	3	1	4	2	2	4
Trucks			61	1	1	2	2	0	2
		Subtotal Newcastle Project	*832*	*47*	*18*	*65*	*25*	*33*	*58*
Etiwanda Site - Phase 2A [c, f]	Total Area	1,103.281 ksf	Building 1 - 669,237 sf ; Building 2 - 127,343 sf ; Building 3 - 219,750 sf; Building 5 - 86,951 sf						
High-Cube Fulfillment Center (non-sorting)	90%	992.953 ksf							
Light Vehicles			1,797	121	28	149	58	90	148
Trucks			571	25	25	50	13	15	28
High-Cube Cold Storage Warehouse	10%	110.328							
Light Vehicles			234	10	2	12	5	8	13
Trucks			207	3	5	8	6	2	8
		Subtotal Etiwanda Site	*2,809*	*159*	*60*	*219*	*82*	*115*	*197*
TOTAL PCE TRIPS - PROJECT PHASE 2A with Newcastle Project			**8,207**	**462**	**178**	**640**	**239**	**337**	**576**
Net Increase from Phase 1			560	32	11	43	18	21	39
Fleet Mix Comparison (PCE trips)									
Light Vehicles			5,935	382	89	471	184	288	472
Trucks			2,272	80	89	169	55	49	104

Notes:

ksf: 1,000 square feet

[a] Trip rates by vehicle type (light vehicle vs truck) as indicated in *Trip Generation, 11th Edition* (Institute of Transportation Engineers, 2021). Total trip rates is provided for reference.

[b] The truck trip rates were adjusted by the Passenger Car Equivalent (PCE) factor of 2.5 light vehicles per truck. The total trip rate is provided for reference, as the trip rate of the vehicle type was applied.

[c] Consistent with *Etiwanda Due Diligence Traffic Assessment* , the total building area on each site is assumed to operate as 90% high-cube fulfillment center and 10% high-cube cold storage warehouse.

[d] The Arrow Route Site assumes completion of the full land use program during Phase 1 of the Project.

[e] The Newcastle Project is a separate development but is included here due to the proximity and anticipated concurrent development with the Arrow Route Site.

[f] The Etiwanda Site, Phase 2A includes development of Buildings 1, 2, 3, and 5.

TABLE 1C
TRIP GENERATION ESTIMATE
ETIWANDA AND ARROW ROUTE WAREHOUSE DEVELOPMENTS - PHASES 1 + 2A + 2B (FULL BUILDOUT)

Land Use	ITE Land Use	Trip Rate	Daily	Morning Peak Hour			Afternoon Peak Hour		
				In	Out	Total	In	Out	Total
Trip Generation Rates (vehicles) [a]									
High-Cube Fulfillment Center (non-sorting)	155	per ksf	2.040			0.170			0.160
Light Vehicles			1.810	0.122	0.029	0.150	0.058	0.091	0.149
Trucks			0.230	0.010	0.010	0.020	0.005	0.006	0.011
High-Cube Cold Storage Warehouse	157	per ksf	2.870			0.140			0.150
Light Vehicles			2.120	0.089	0.021	0.110	0.047	0.073	0.120
Trucks			0.750	0.010	0.020	0.030	0.020	0.010	0.030
Trip Generation Rates (PCE adjusted) [b]									
High-Cube Fulfillment Center (non-sorting)	155	per ksf	2.385			0.200			0.177
Light Vehicles			1.810	0.122	0.029	0.150	0.058	0.091	0.149
Trucks			0.575	0.025	0.025	0.050	0.013	0.015	0.028
High-Cube Cold Storage Warehouse	157	per ksf	3.995			0.185			0.195
Light Vehicles			2.120	0.089	0.021	0.110	0.047	0.073	0.120
Trucks			1.875	0.025	0.050	0.075	0.050	0.025	0.075
Arrow Route Site - Full Buildout [c, d]	Total Area	1,793.790 ksf	Building 1 - 88,400 sf ; Building 2 - 91,520 sf ; Building 3 - 64,060 sf ; Building 4 - 1,048,530 sf ; Building 5 - 501,280 sf						
High-Cube Fulfillment Center (non-sorting)	90%	1,614.411 ksf							
Light Vehicles			2,922	196	46	242	94	147	241
Trucks			928	40	41	81	21	24	45
High-Cube Cold Storage Warehouse	10%	179.379 ksf							
Light Vehicles			380	16	4	20	8	14	22
Trucks			336	4	9	13	9	4	13
		Subtotal Arrow Route Site	*4,566*	*256*	*100*	*356*	*132*	*189*	*321*
Newcastle Project [c, e]	Total Area	327.000 ksf							
High-Cube Fulfillment Center (non-sorting)	90%	294.300 ksf							
Light Vehicles			533	36	8	44	17	27	44
Trucks			169	7	8	15	4	4	8
High-Cube Cold Storage Warehouse	10%	32.700 ksf							
Light Vehicles			69	3	1	4	2	2	4
Trucks			61	1	1	2	2	0	2
		Subtotal Newcastle Project	*832*	*47*	*18*	*65*	*25*	*33*	*58*
Etiwanda Site - Phase 2B [c, f]	Total Area	1,266.091 ksf	Building 1 - 669,237 sf ; Building 2 - 127,343 sf ; Building 3 - 219,750 sf; Building 4 - 162,810 sf; Building 5 - 86,951 sf						
High-Cube Fulfillment Center (non-sorting)	90%	1,139.482 ksf							
Light Vehicles			2,062	138	33	171	66	104	170
Trucks			655	28	29	57	15	17	32
High-Cube Cold Storage Warehouse	10%	126.609							
Light Vehicles			268	11	3	14	6	9	15
Trucks			237	3	6	9	6	3	9
		Subtotal Etiwanda Site	*3,222*	*180*	*71*	*251*	*93*	*133*	*226*
TOTAL PCE TRIPS - PROJECT PHASE 2B with Newcastle Project			**8,620**	**483**	**189**	**672**	**250**	**355**	**605**
Net Increase from Phase 2A			413	21	11	32	11	18	29
Fleet Mix Comparison (PCE trips)									
Light Vehicles			6,234	400	95	495	193	303	496
Trucks			2,386	83	94	177	57	52	109

Notes:

ksf: 1,000 square feet

[a] Trip rates by vehicle type (light vehicle vs truck) as indicated in *Trip Generation, 11th Edition* (Institute of Transportation Engineers, 2021). Total trip rates is provided for reference.

[b] The truck trip rates were adjusted by the Passenger Car Equivalent (PCE) factor of 2.5 light vehicles per truck. The total trip rate is provided for reference, as the trip rate of the vehicle type was applied.

[c] Consistent with *Etiwanda Due Diligence Traffic Assessment* , the total building area on each site is assumed to operate as 90% high-cube fulfillment center and 10% high-cube cold storage warehouse.

[d] The Arrow Route Site assumes completion of the full land use program during Phase 1 of the Project.

[e] The Newcastle Project is a separate development but is included here due to the proximity and anticipated concurrent development with the Arrow Route Site.

[f] The Etiwanda Site, Phase 2B includes development of Buildings 1, 2, 3, 4, and 5.

TABLE 2
INTERSECTION LEVEL OF SERVICE DEFINITIONS

Level of Service	Description	Delay [a] Signalized Intersections	Delay [a] Unsignalized Intersections
A	EXCELLENT. No vehicle waits longer than one red light and no approach phase is fully used.	≤ 10	≤ 10
B	VERY GOOD. An occasional approach phase is fully utilized; many drivers begin to feel somewhat restricted within groups of vehicles.	> 10 and ≤ 20	> 10 and ≤ 15
C	GOOD. Occasionally drivers may have to wait through more than one red light; backups may develop behind turning vehicles.	> 20 and ≤ 35	> 15 and ≤ 25
D	FAIR. Delays may be substantial during portions of the rush hours, but enough lower volume periods occur to permit clearing of developing lines, preventing excessive backups.	> 35 and ≤ 55	> 25 and ≤ 35
E	POOR. Represents the most vehicles intersection approaches can accommodate; may be long lines of waiting vehicles through several signal cycles.	> 55 and ≤ 80	> 35 and ≤ 50
F	FAILURE. Backups from nearby locations or on cross streets may restrict or prevent movement of vehicles out of the intersection approaches. Tremendous delays with continuously increasing queue lengths.	> 80	> 50

Notes:

Source: *Highway Capacity Manual, 6th Edition* (Transportation Research Board, 2016).

[a] Measured in seconds.

TABLE 3
EXISTING CONDITIONS (YEAR 2022)
INTERSECTION LEVELS OF SERVICE

No	Intersection	Peak Hour	Existing Conditions	
			Delay	LOS
1. [a]	I-15 SB Ramps & Foothill Boulevard	AM PM	21.7 38.7	C D
2. [a]	I-15 NB Ramps & Foothill Boulevard	AM PM	20.2 21.6	C C
3. [a]	Etiwanda Avenue & Foothill Boulevard	AM PM	51.2 50.1	D D
4. [a]	Etiwanda Avenue & Arrow Route	AM PM	72.5 47.2	E D
5. [a]	Etiwanda Avenue & Whittram Avenue	AM PM	320.0 30.8	F C
6. [a]	Etiwanda Avenue & Napa Street	AM PM	32.5 52.0	C D
7. [b]	Etiwanda Avenue & 6th Street	AM PM	11.7 14.7	B B
8. [a]	Etiwanda Avenue & Fourth Street/San Bernardino Avenue	AM PM	37.7 36.7	D D
9. [a]	Etiwanda Avenue & Ontario Mills Parkway/Valley Boulevard	AM PM	18.8 21.6	B C
10. [a]	Etiwanda Avenue & I-10 WB Ramps	AM PM	18.9 15.0	B B
11. [a]	Etiwanda Avenue & I-10 EB Ramps	AM PM	19.3 10.4	B B

Notes:

Delay is measured in seconds per vehicle. LOS = Level of Service.

[a] Intersection analysis based on HCM 6th Edition Signalized methodology, which calculates the average intersection delay, in seconds, for each vehicle passing through the intersection.

[b] Intersection analysis based on the HCM 6th Edition Two-Way Stop Control Unsignalized methodology, which calculates the control delay, in seconds, for each individual approach of an intersection. The reported control delay represents the worst-case approach, and does not account for traffic gaps created by adjacent traffic signals.

TABLE 4
FUTURE CONDITIONS (YEAR 2025)
INTERSECTION LEVELS OF SERVICE

No	Intersection	Peak Hour	Future Conditions (No Etiwanda Grade Separation) 2025		Future with Project Phase 1 Conditions (No Etiwanda Grade Separation) [c]		Future Conditions (with Etiwanda Grade Separation - No Project) [d]		Future with Project Phase 1 Conditions (with Etiwanda Grade Separation)		With General Plan Improvements Conditions [e]		With General Plan and Additional Improvements [f]	
			Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
1.	I-15 SB Ramps &	AM	22.0	C	21.9	C	22.0	C	21.9	C				
[a]	Foothill Boulevard	PM	52.5	D	53.4	D	52.5	D	53.4	D				
2.	I-15 NB Ramps &	AM	20.7	C	21.4	C	20.7	C	21.4	C				
[a]	Foothill Boulevard	PM	21.8	C	22.2	C	21.8	C	22.2	C				
3.	Etiwanda Avenue &	AM	60.9	E	64.9	E	60.4	E	64.4	E			50.2	D
[a]	Foothill Boulevard	PM	51.8	D	53.0	D	51.3	D	52.3	D			48.9	D
4.	Etiwanda Avenue &	AM	80.1	F	97.9	F	80.1	F	97.9	F	76.4	E	46.1	D
[a]	Arrow Route	PM	47.7	D	49.6	D	47.7	D	49.6	D	46.1	D	46.1	D
5.	Etiwanda Avenue &	AM	345.6	F	312.2	F	341.3	F	304.3	F			22.4	C
[a]	Whittram Avenue	PM	33.3	C	35.4	D	29.2	C	28.4	C			28.4	C
6.	Etiwanda Avenue &	AM	28.9	C	31.7	C	29.1	C	31.7	C				
[a]	Napa Street	PM	169.6	F	32.8	C	169.7	F	32.8	C				
7.	Etiwanda Avenue &	AM	20.3	C	25.3	D	20.3	C	25.3	D	24.6	C	13.0	B
[b]	6th Street	PM	27.4	D	41.0	E	27.4	D	41.0	E	40.1	E	15.3	C
8.	Etiwanda Avenue &	AM	52.4	D	53.4	D	52.4	D	53.4	D				
[a]	Fourth Street/San Bernardino Avenue	PM	44.1	D	47.5	D	44.1	D	47.5	D				
9.	Etiwanda Avenue &	AM	18.5	B	17.8	B	18.5	B	17.8	B				
[a]	Ontario Mills Parkway/Valley Boulevard	PM	22.1	C	22.0	C	22.1	C	22.0	C				
10.	Etiwanda Avenue &	AM	19.6	B	20.1	C	19.6	B	20.1	C				
[a]	I-10 WB Ramps	PM	15.4	B	15.4	B	15.4	B	15.4	B				
11.	Etiwanda Avenue &	AM	20.6	C	20.6	C	20.6	C	20.6	C				
[a]	I-10 EB Ramps	PM	11.0	B	11.3	B	11.0	B	11.3	B				

Notes:

Delay is measured in seconds per vehicle. LOS = Level of Service.

[a] Intersection analysis based on HCM 6th Edition Signalized methodology, which calculates the average intersection delay, in seconds, for each vehicle passing through the intersection.

[b] Intersection analysis based on the HCM 6th Edition Two-Way Stop Control Unsignalized methodology, which calculates the control delay, in seconds, for each individual approach of an intersection. The reported control delay represents the worst-case approach, and does not account for traffic gaps created by adjacent traffic signals.

[d] Future Conditions assumes the completion of the Eitwanda Avenue Grade Separation, which consists of an overpass over the BNSF Railroad tracks generally between Whittram Avenue and Napa Street with a connection to the east side of Etiwanda Avenue along Napa Street.

[e] General Plan improvements consist of the widening of Etiwanda Avenue to four total lanes betweeh 6th Street and Arrow Route along with related improvements at affected intersecitons.

[f] Includes the General Plan identified roadway improvements along with additional improvements to address deficient operations.

TABLE 5
FUTURE CONDITIONS (YEAR 2026)
INTERSECTION LEVELS OF SERVICE

No	Intersection	Peak Hour	Future Conditions 2026		Future with Project Phases 1 + 2A Conditions [c]		With General Plan Improvements Conditions [d]		With General Plan and Additional Improvements [e]	
			Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
1.	I-15 SB Ramps &	AM	22.1	C	22.0	C			18.7	B
[a]	Foothill Boulevard	PM	56.8	E	57.6	E			19.0	B
2.	I-15 NB Ramps &	AM	20.9	C	21.8	C				
[a]	Foothill Boulevard	PM	21.9	C	22.4	C				
3.	Etiwanda Avenue &	AM	63.8	E	68.3	E			52.4	D
[a]	Foothill Boulevard	PM	51.7	D	53.2	D			49.2	D
4.	Etiwanda Avenue &	AM	83.3	F	101.6	F	79.1	E	46.4	D
[a]	Arrow Route	PM	48.1	D	50.0	D	46.3	D	46.1	D
5.	Etiwanda Avenue &	AM	349.9	F	310.4	F			22.6	C
[a]	Whittram Avenue	PM	29.5	C	28.7	C			28.8	C
6.	Etiwanda Avenue &	AM	29.0	C	31.5	C				
[a]	Napa Street	PM	169.1	F	32.9	C				
7.	Etiwanda Avenue &	AM	20.8	C	26.7	D	25.7	D	13.1	B
[b]	6th Street	PM	28.3	D	44.3	E	43.1	E	15.6	C
8.	Etiwanda Avenue &	AM	53.8	D	55.0	D				
[a]	Fourth Street/San Bernardino Avenue	PM	44.9	D	48.5	D				
9.	Etiwanda Avenue &	AM	18.5	B	17.9	B				
[a]	Ontario Mills Parkway/Valley Boulevard	PM	22.8	C	22.4	C				
10.	Etiwanda Avenue &	AM	19.7	B	19.3	B				
[a]	I-10 WB Ramps	PM	15.5	B	15.6	B				
11.	Etiwanda Avenue &	AM	21.0	C	21.0	C				
[a]	I-10 EB Ramps	PM	11.1	B	11.4	B				

Notes:

Delay is measured in seconds per vehicle. LOS = Level of Service.

[a] Intersection analysis based on HCM 6th Edition Signalized methodology, which calculates the average intersection delay, in seconds, for each vehicle passing through the intersection.

[b] Intersection analysis based on the HCM 6th Edition Two-Way Stop Control Unsignalized methodology, which calculates the control delay, in seconds, for each individual approach of an intersection. The reported control delay represents the worst-case approach, and does not account for traffic gaps created by adjacent traffic signals.

[c] Future with Project Phase 2A Conditions includes the construction Building 3 of the Etiwanda Site and the entire Arrow Route Site with the Newcastle project.

[d] General Plan improvements consist of the widening of Etiwanda Avenue to four total lanes betweeh 6th Street and Arrow Route along with related improvements at affected intersecitons.

[e] Includes the General Plan identified roadway improvements along with additional improvements to address deficient operations.

TABLE 6
FUTURE CONDITIONS (YEAR 2027)
INTERSECTION LEVELS OF SERVICE

No	Intersection	Peak Hour	Future Conditions 2027		Future with Full Project Conditions [c]		With General Plan Improvements Conditions [d]		With General Plan and Additional Improvements [e]	
			Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
1.	I-15 SB Ramps &	AM	22.3	C	22.2	C			18.8	B
[a]	Foothill Boulevard	PM	61.3	E	62.2	E			19.4	B
2.	I-15 NB Ramps &	AM	21.2	C	22.3	C				
[a]	Foothill Boulevard	PM	22.1	C	22.7	C				
3.	Etiwanda Avenue &	AM	67.4	E	72.4	E			54.9	D
[a]	Foothill Boulevard	PM	52.3	D	54.3	D			49.6	D
4.	Etiwanda Avenue &	AM	86.6	F	105.3	F	82.0	F	46.6	D
[a]	Arrow Route	PM	48.4	D	50.4	D	46.5	D	45.9	D
5.	Etiwanda Avenue &	AM	356.0	F	317.9	F			22.8	C
[a]	Whittram Avenue	PM	30.0	C	29.2	C			29.2	C
6.	Etiwanda Avenue &	AM	28.9	C	31.6	C				
[a]	Napa Street	PM	170.8	F	33.1	C				
7.	Etiwanda Avenue &	AM	21.3	C	27.7	D	27.1	D	13.5	B
[b]	6th Street	PM	28.8	D	46.0	E	45.4	E	15.7	C
8.	Etiwanda Avenue &	AM	55.1	E	56.5	E			34.7	C
[a]	Fourth Street/San Bernardino Avenue	PM	45.9	D	49.9	D			37.6	D
9.	Etiwanda Avenue &	AM	18.6	B	19.4	B				
[a]	Ontario Mills Parkway/Valley Boulevard	PM	23.1	C	22.8	C				
10.	Etiwanda Avenue &	AM	18.9	B	19.5	B				
[a]	I-10 WB Ramps	PM	15.7	B	15.8	B				
11.	Etiwanda Avenue &	AM	21.5	C	21.5	C				
[a]	I-10 EB Ramps	PM	11.2	B	11.5	B				

Notes:

Delay is measured in seconds per vehicle. LOS = Level of Service.

[a] Intersection analysis based on HCM 6th Edition Signalized methodology, which calculates the average intersection delay, in seconds, for each vehicle passing through the intersection.

[b] Intersection analysis based on the HCM 6th Edition Two-Way Stop Control Unsignalized methodology, which calculates the control delay, in seconds, for each individual approach of an intersection. The reported control delay represents the worst-case approach, and does not account for traffic gaps created by adjacent traffic signals.

[c] Future with Full Project Conditions includes the entire Etiwanda Site and Arrow Route Site with the Newcastle project.

[d] General Plan improvements consist of the widening of Etiwanda Avenue to four total lanes betweeh 6th Street and Arrow Route along with related improvements at affected intersecitons.

[e] Includes the General Plan identified roadway improvements along with additional improvements to address deficient operations.

TABLE 7
QUEUE ANALYSIS - INTERSECTION MOVEMENTS WHERE PROJECT ADDS 50 FEET OR MORE OF STORAGE REQUIREMENTS

No.	Intersection	Peak Hour	Movement	Available Queue	Future Conditions - Phase 2B (Year 2027)											
					No Project		With Project			With General Plan Improvements Conditions			With Additional Improvements Conditions			
					95th Queue Length	Available Capacity	95th Queue Length	Available Capacity	Change in Available Capacity	95th Queue Length	Available Capacity	Change in Available Capacity	95th Queue Length	Available Capacity	Change in Available Capacity
1.	I-15 SB Ramps & Foothill Boulevard	AM	EBR [a]	530	0	530	0	530	0				0	530	0
			WBR [a]	275	0	275	0	275	0				0	275	0
			SBL	157	73	85	88	70	(15)				105	52	(33)
			SBR	1700	225	1475	225	1475	0				263	1438	(38)
		PM	EBR [a]	530	0	530	0	530	0				0	530	0
			WBR [a]	275	0	275	0	275	0				0	275	0
			SBL	157	110	47	123	35	(13)				170	(13)	(60)
			SBR	1700	233	1468	233	1468	0				325	1375	(93)
2.	I-15 NB Ramps & Foothill Boulevard	AM	NBR	448	363	86	463	(15)	(100)						
		PM	NBR	448	425	23	485	(37)	(60)						
3.	Etiwanda Avenue & Foothill Boulevard	AM	EBR										343	(343)	(343)
			NBL	160	343	(183)	425	(265)	(83)				153	8	190
			NBR	35	133	(98)	148	(113)	(15)				148	(113)	(15)
			SBL										150	(150)	(150)
			SBR										428	(428)	(428)
		PM	EBR										263	(263)	(263)
			NBL	160	463	(303)	523	(363)	(60)				273	(113)	190
			NBR	35	295	(260)	328	(293)	(33)				355	(320)	(60)
			SBL										135	(135)	(135)
			SBR										290	(290)	(290)
4.	Etiwanda Avenue & Arrow Route	AM	EBL	347	55	292	75	272	(20)	75	272	(20)	203	145	(148)
			WBR							168	(168)	(168)	150	(150)	(150)
			NBL	352	280	72	608	(256)	(328)	608	(256)	(328)	355	(3)	(75)
			SBR	617	528	90	750	(133)	(223)	750	(133)	(223)	388	230	140
		PM	EBL	347	313	35	378	(31)	(65)	378	(31)	(65)	353	(6)	(40)
			EBR	530	383	148	550	(20)	(168)	608	(78)	(225)	663	(133)	(280)
			WBR							245	(245)	(245)	260	(260)	(260)
			NBL	352	135	217	223	130	(88)	223	130	(88)	203	150	(68)
			WBL										378	(378)	(378)
5.	Etiwanda Avenue & Whittram Avenue	AM	NBL	112	3	110	3	110	0				3	110	0
			NBR										108	(108)	(108)
			WBL										355	(355)	(355)
		PM	NBL	112	3	110	3	110	0				3	110	0
			NBR										235	(235)	(235)
			WBL										73	(73)	(73)
6.	Etiwanda Avenue & Napa Street	AM	NBL	100	0	100	80	20	(80)	80	20	(80)	80	20	(80)
			NBR		33	(33)	33	(33)	0	208	(208)	(175)	208	(208)	(175)
			SBL	360	165	195	200	160	(35)	200	160	(35)	193	168	(28)
			SBR		528	(528)	750	(750)	(223)	70	(70)	458	70	(70)	458
			EBL							0	0	0	68	(68)	(68)
			WBL							0	0	0	285	(285)	(285)
		PM	NBR							170	(170)	(170)	170	(170)	(170)
8.	Etiwanda Avenue & Fourth Street/San Bernardino Avenue	AM	EBL	195	100	95	198	(3)	(98)						
		PM	EBL	195	283	(88)	348	(153)	(65)						
			SBR	202	238	(36)	303	(101)	(65)						

Notes:
(##) - Negative number.

TABLE 8A
SUMMARY OF EVACUATION DELAY
MORNING PEAK HOUR

Future with Full Project Conditions (2027) + Adjacent TAZs						
No.	**Intersection**	**Approach**	**Approach Lanes**	**Volume [a]**	**Approach Delay [b]**	**Minutes to Clear [c]**
4	Etiwanda Avenue & Arrow Route	Eastbound	2	826	39.1	19
5	Etiwanda Avenue & Whittram Avenue	Southbound	2	2,530	22.2	59
6	Etiwanda Avenue & Napa Street	Southbound	2	1,993	32.9	47
7	Etiwanda Avenue & 6th Street	Southbound	2	2,356	n/a	55
8	Etiwanda Avenue & 4th Street / San Bernardino Avenue	Southbound	2	3,583	19.3	**84**
CONGESTION = 84 MINUTES (1.3 HOURS)						

Notes:

[a] Volume conservatively assumes the Future 2027 Project Full Buildout Conditions with trip generation assumptions from adjacent TAZs.

[b] Approach Delay determined by using HCM 6th Edition methodology.

[c] Minutes t Indicates highest congestion for exiting Canyon traffic

Indicates highest congestion for evacuating traffic.

TABLE 8B
SUMMARY OF EVACUATION DELAY
AFTERNOON PEAK HOUR

Future with Full Project Conditions (2027) + Adjacent TAZs						
No.	**Intersection**	**Approach**	**Approach Lanes**	**Volume [a]**	**Approach Delay [b]**	**Minutes to Clear [c]**
4	Etiwanda Avenue & Arrow Route	Eastbound	2	2,036	46.7	48
5	Etiwanda Avenue & Whittram Avenue	Southbound	2	2,549	28.7	60
6	Etiwanda Avenue & Napa Street	Southbound	2	1,820	28.9	43
7	Etiwanda Avenue & 6th Street	Southbound	2	2,358	n/a	55
8	Etiwanda Avenue & 4th Street / San Bernardino Avenue	Southbound	2	3,765	29.4	**88**
CONGESTION = 88 MINUTES (1.4 HOURS)						

Notes:

[a] Volume conservatively assumes the Future 2027 Project Full Buildout Conditions with trip generation assumptions from adjacent TAZs.

[b] Approach Delay determined by using HCM 6th Edition methodology.

[c] Minutes to Clear (congestion) determined by using an assumed vehicular flow of 1,280 vehicles per lane per hour.

Indicates highest congestion for evacuating traffic.

TABLE 9
ESTIMATED EMERGENCY SERVICES ACCESS TIMES

Fire Station	Location	Arrow Route Site				
		Approximate Distance (miles) [a]		Estimated Travel Time (minutes) [b]		
		Outside cordon	Inside cordon	Outside cordon	Inside cordon	Total Time
Rancho Cucamonga FD #173	12270 Firehouse Ct, Rancho Cucamonga	2.0	1.1	6.0	1.7	7.7
Rancho Cucamonga FD #174	11297 Jersey Bl, Rancho Cucamonga	1.5	0.4	4.5	0.6	5.1
San Bernardino Co FD #72	15380 San Bernardino Av, Fontana	2.6	2.5	7.8	3.8	11.6
San Bernardino Co FD #73	8143 Banana Av, Fontana	-	2.5	-	3.8	3.8
Ontario FD #7	4901 Vanderbilt St, Ontario	5.5	0.7	16.5	1.1	17.6

Fire Station	Location	Etiwanda Site				
		Approximate Distance (miles) [a]		Estimated Travel Time (minutes) [b]		
		Outside cordon	Inside cordon	Outside cordon	Inside cordon	Total Time
Rancho Cucamonga FD #173	12270 Firehouse Ct, Rancho Cucamonga	2.2	0.7	6.6	1.1	7.7
Rancho Cucamonga FD #174	11297 Jersey Bl, Rancho Cucamonga	1.5	1.6	4.5	2.4	6.9
San Bernardino Co #72	15380 San Bernardino Av, Fontana	1.1	2.9	3.3	4.4	7.7
San Bernardino Co #73	8143 Banana Av, Fontana	-	2.6	-	3.9	3.9
Ontario FD #7	4901 Vanderbilt St, Ontario	3.1	1.3	9.3	2.0	11.3

Notes:
[a] Evacuation cordon bound by Foothill Boulevard, Cherry Avenue, I-10, and I-15. Distance from Fire Station estimated outside cordon and inside cordon to Project sites.
[b] Travel time based on typical speed of 20 MPH outside of cordon and 40 MPH inside of cordon.

Attachment A

Traffic Count Summaries

INTERSECTION TURNING MOVEMENT COUNTS

T1218

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Mar 11, 20

LOCATION: Rancho Cucamonga
NORTH & SOUTH: Etiwanda
EAST & WEST: 6th

PROJECT #: JN13149
LOCATION #: 5
CONTROL: STOP E

NOTES:

AM
PM
MD
OTHER
OTHER

◄ W N ▲ S ▼ E ►

Add U-Turns to Left Turns

	NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND 6th			WESTBOUND 6th			
LANES:	NL 1	NT 2	NR X	SL X	ST 2	SR 0	EL 1	ET X	ER 1	WL X	WT X	WR X	TOTAL
7:00 AM	4	89	0	0	141	3	1	0	2	0	0	0	240
7:15 AM	5	104	0	0	183	3	1	0	4	0	0	0	300
7:30 AM	5	108	0	0	216	1	0	0	4	0	0	0	334
7:45 AM	1	122	0	0	177	4	0	0	2	0	0	0	306
8:00 AM	1	135	0	0	152	2	1	0	2	0	0	0	293
8:15 AM	4	129	0	0	152	3	1	0	3	0	0	0	292
8:30 AM	5	122	0	0	113	3	1	0	4	0	0	0	248
8:45 AM	8	127	0	0	120	3	1	0	4	0	0	0	263
AM VOLUMES	33	936	0	0	1,254	22	6	0	25	0	0	0	2,277
AM APPROACH %	3%	97%	0%	0%	98%	2%	19%	0%	81%	0%	0%	0%	
AM APP/DEPART	969	/	943	1,277	/	1,279	31	/	0	0	/	55	0
BEGIN PEAK HR		7:15 AM											
PEAK HR VOLUMES	12	469	0	0	728	10	2	0	12	0	0	0	1,233
PEAK HR APPROACH %	2%	98%	0%	0%	99%	1%	14%	0%	86%	0%	0%	0%	
PEAK HR FACTOR		0.884			0.850			0.700			0.000		0.923
PEAK HR APP/DEPART	481	/	471	738	/	740	14	/	0	0	/	22	0
4:00 PM	2	216	0	0	110	1	1	0	6	0	0	0	336
4:15 PM	1	221	0	0	123	1	3	0	13	0	0	0	362
4:30 PM	2	211	0	0	134	2	6	0	10	0	0	0	365
4:45 PM	0	212	0	0	138	1	3	0	5	0	0	0	359
5:00 PM	1	209	0	0	137	1	2	0	1	0	0	0	351
5:15 PM	0	203	0	0	168	0	0	0	0	0	0	0	371
5:30 PM	4	196	0	0	119	0	1	0	2	0	0	0	322
5:45 PM	0	227	0	0	112	0	2	0	0	0	0	0	341
PM VOLUMES	10	1,695	0	0	1,041	6	18	0	37	0	0	0	2,809
PM APPROACH %	1%	99%	0%	0%	99%	1%	33%	0%	67%	0%	0%	0%	
PM APP/DEPART	1,707	/	1,713	1,047	/	1,080	55	/	0	0	/	16	0
BEGIN PEAK HR		4:30 PM											
PEAK HR VOLUMES	3	835	0	0	577	4	11	0	16	0	0	0	1,447
PEAK HR APPROACH %	0%	100%	0%	0%	99%	1%	41%	0%	59%	0%	0%	0%	
PEAK HR FACTOR		0.985			0.865			0.422			0.000		0.975
PEAK HR APP/DEPART	839	/	846	581	/	594	27	/	0	0	/	7	0

U-TURNS

	NB 0	SB 0	EB 0	WB 0	TTL
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	1	0	0	1
AM VOLUMES	0	1	0	0	1
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	1	0	0	0	1
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	1	0	0	0	1
PM VOLUMES	2	0	0	0	2

RTOR

	NRR X	SRR X	ERR X	WRR X
7:00 AM	0	0	0	0
7:15 AM	0	0	0	0
7:30 AM	0	0	0	0
7:45 AM	0	0	0	0
8:00 AM	0	0	0	0
8:15 AM	0	0	0	0
8:30 AM	0	0	0	0
8:45 AM	0	0	0	0
AM VOLUMES	0	0	0	0
PEAK HR VOLUMES	0	0	0	0
4:00 PM	0	0	0	0
4:15 PM	0	0	0	0
4:30 PM	0	0	0	0
4:45 PM	0	0	0	0
5:00 PM	0	0	0	0
5:15 PM	0	0	0	0
5:30 PM	0	0	0	0
5:45 PM	0	0	0	0
PM VOLUMES	0	0	0	0
PEAK HR VOLUMES	0	0	0	0

Etiwanda

NORTH SIDE

6th WEST SIDE EAST SIDE 6th

SOUTH SIDE

Etiwanda

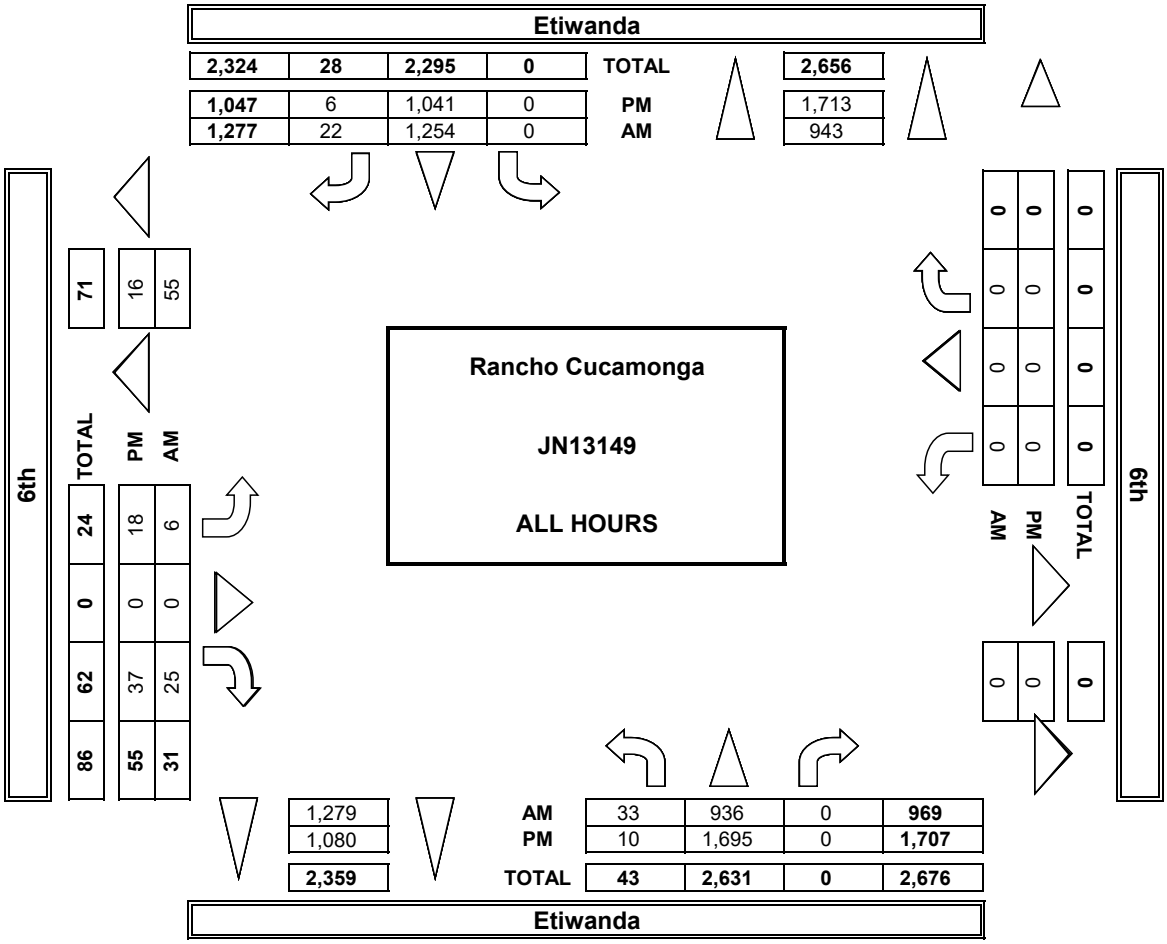
	ALL PED AND BIKE				
	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	2	0	0	2
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	1	0	0	1
AM TOTAL	0	3	0	0	3
4:00 PM	0	0	0	0	0
4:15 PM	0	1	0	0	1
4:30 PM	0	1	0	0	1
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	1	0	0	1
5:45 PM	0	0	0	0	0
PM TOTAL	0	3	0	0	3

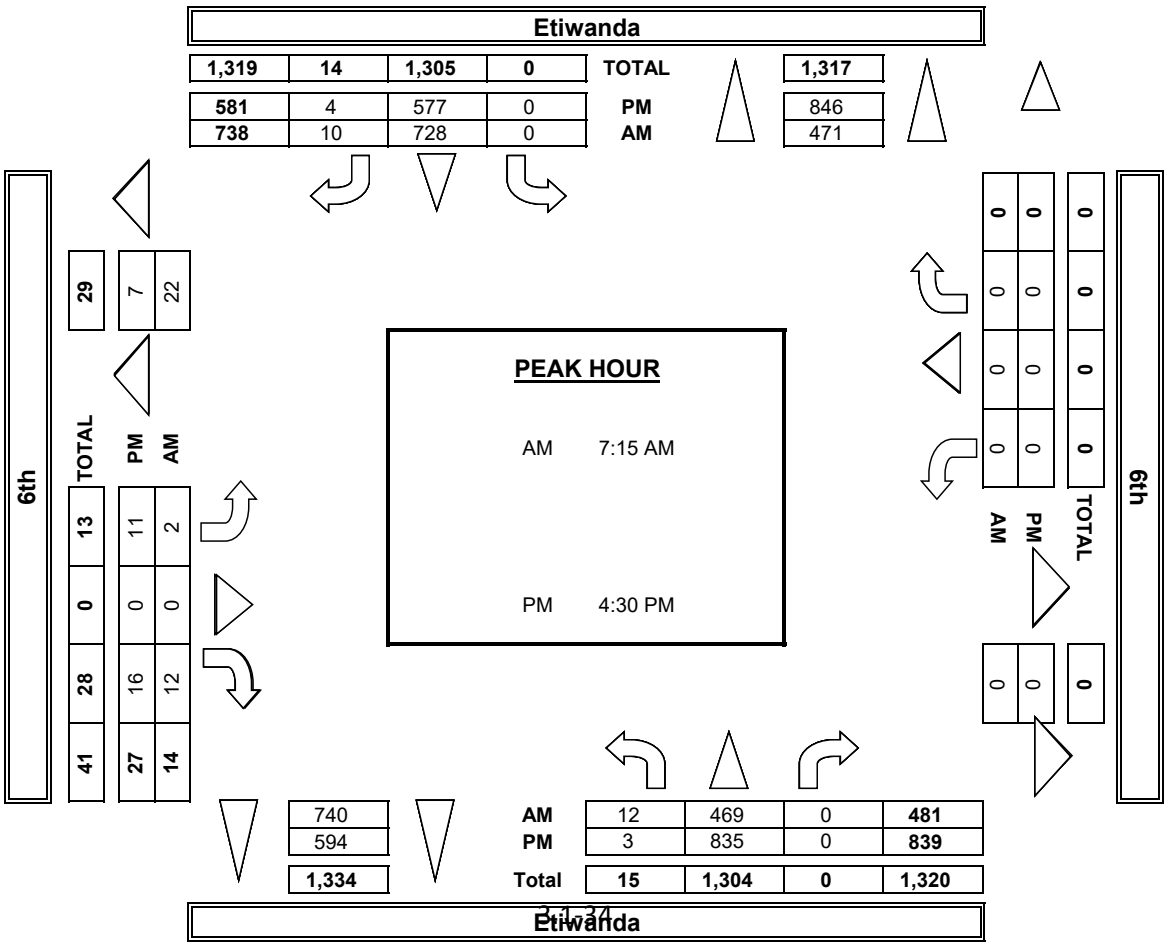
	PEDESTRIAN CROSSINGS				
	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	2	0	0	2
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	1	0	0	1
AM TOTAL	0	3	0	0	3
4:00 PM	0	0	0	0	0
4:15 PM	0	1	0	0	1
4:30 PM	0	1	0	0	1
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	1	0	0	1
5:45 PM	0	0	0	0	0
PM TOTAL	0	3	0	0	3

	BICYCLE CROSSINGS				
	ES	WS	SS	NS	TOTAL
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
AM TOTAL	0	0	0	0	0
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
PM TOTAL	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

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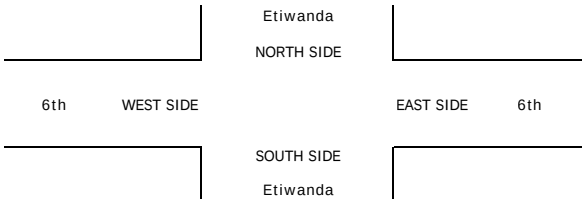
DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	5
WEDNESDAY	EAST & WEST:	6th	CONTROL:	STOP E

CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Etiwanda)			SOUTHBOUND (Etiwanda)			EASTBOUND (6th)			WESTBOUND (6th)			
	LANES:	NL 1	NT 2	NR X	SL X	ST 2	SR 0	EL 1	ET X	ER 1	WL X	WT X	WR X	TOTAL
AM	7:00 AM	2	56	0	0	104	3	0	0	0	0	0	0	165
	7:15 AM	2	73	0	0	147	3	0	0	0	0	0	0	225
	7:30 AM	3	83	0	0	170	1	0	0	2	0	0	0	259
	7:45 AM	0	91	0	0	141	2	0	0	0	0	0	0	234
	8:00 AM	1	95	0	0	104	2	1	0	0	0	0	0	203
	8:15 AM	2	101	0	0	112	3	1	0	1	0	0	0	220
	8:30 AM	2	82	0	0	78	1	1	0	0	0	0	0	164
	8:45 AM	4	85	0	0	76	3	0	0	2	0	0	0	170
	VOLUMES	16	666	0	0	932	18	3	0	5	0	0	0	1,641
	APPROACH %	2%	98%	0%	0%	98%	2%	38%	0%	63%	0%	0%	0%	
	APP/DEPART	682	/	670	951	/	937	8	/	0	0	/	34	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	6	342	0	0	562	8	1	0	2	0	0	0	921
	APPROACH %	2%	98%	0%	0%	99%	1%	33%	0%	67%	0%	0%	0%	
	PEAK HR FACTOR		0.906			0.833			0.375			0.000		0.889
	APP/DEPART	348	/	343	570	/	564	3	/	0	0	/	14	0
PM	4:00 PM	1	185	0	0	88	0	1	0	5	0	0	0	280
	4:15 PM	1	194	0	0	101	0	2	0	10	0	0	0	308
	4:30 PM	2	193	0	0	110	1	5	0	8	0	0	0	319
	4:45 PM	0	185	0	0	104	1	3	0	4	0	0	0	297
	5:00 PM	1	181	0	0	114	1	2	0	1	0	0	0	300
	5:15 PM	0	180	0	0	138	0	0	0	0	0	0	0	318
	5:30 PM	2	182	0	0	98	0	1	0	1	0	0	0	284
	5:45 PM	0	198	0	0	87	0	2	0	0	0	0	0	287
	VOLUMES	7	1,498	0	0	840	3	16	0	29	0	0	0	2,395
	APPROACH %	0%	99%	0%	0%	100%	0%	36%	0%	64%	0%	0%	0%	
	APP/DEPART	1,507	/	1,514	843	/	871	45	/	0	0	/	10	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	3	739	0	0	466	3	10	0	13	0	0	0	1,235
	APPROACH %	0%	99%	0%	0%	99%	1%	43%	0%	57%	0%	0%	0%	
	PEAK HR FACTOR		0.953			0.850			0.442			0.000		0.968
	APP/DEPART	743	/	749	469	/	480	23	/	0	0	/	6	0

U-TURNS					RTOR			
NB	SB	EB	WB	TTL	NRR	SRR	ERR	WRR
0	0	0	0		X	X	X	X
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	1	0	0	1	0	0	0	0
0	1	0	0	1	0	0	0	0
					0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
1	0	0	0	1	0	0	0	0
2	0	0	0	2	0	0	0	0
					0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

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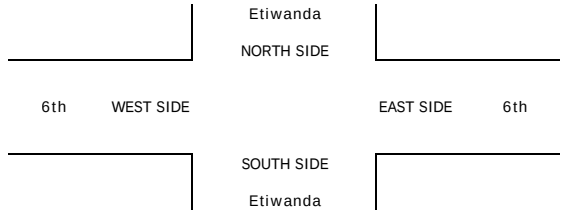
DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	5
WEDNESDAY	EAST & WEST:	6th	CONTROL:	STOP E

CLASS 2:	NOTES:	AM		▲ N	
2-AXLE		PM			
WORK		MD	◄ W		E ►
VEHICLES/		OTHER		S	
TRUCKS		OTHER		▼	

		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND 6th			WESTBOUND 6th			
	LANES:	NL 1	NT 2	NR X	SL X	ST 2	SR 0	EL 1	ET X	ER 1	WL X	WT X	WR X	TOTAL
AM	7:00 AM	1	5	0	0	7	0	1	0	1	0	0	0	15
	7:15 AM	0	6	0	0	7	0	0	0	1	0	0	0	14
	7:30 AM	1	7	0	0	10	0	0	0	1	0	0	0	19
	7:45 AM	1	6	0	0	8	0	0	0	1	0	0	0	16
	8:00 AM	0	7	0	0	13	0	0	0	0	0	0	0	20
	8:15 AM	0	9	0	0	4	0	0	0	0	0	0	0	13
	8:30 AM	1	5	0	0	7	1	0	0	0	0	0	0	14
	8:45 AM	1	6	0	0	10	0	1	0	0	0	0	0	18
	VOLUMES	5	51	0	0	66	1	2	0	4	0	0	0	129
	APPROACH %	9%	91%	0%	0%	99%	1%	33%	0%	67%	0%	0%	0%	
	APP/DEPART	56	/	53	67	/	70	6	/	0	0	/	6	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	2	26	0	0	38	0	0	0	3	0	0	0	69
	APPROACH %	7%	93%	0%	0%	100%	0%	0%	0%	100%	0%	0%	0%	
	PEAK HR FACTOR		0.875			0.731			0.750			0.000		0.863
	APP/DEPART	28	/	26	38	/	41	3	/	0	0	/	2	0
PM	4:00 PM	1	5	0	0	4	1	0	0	0	0	0	0	11
	4:15 PM	0	5	0	0	6	1	1	0	3	0	0	0	16
	4:30 PM	0	3	0	0	8	0	0	0	2	0	0	0	13
	4:45 PM	0	7	0	0	4	0	0	0	0	0	0	0	11
	5:00 PM	0	6	0	0	6	0	0	0	0	0	0	0	12
	5:15 PM	0	7	0	0	5	0	0	0	0	0	0	0	12
	5:30 PM	0	3	0	0	6	0	0	0	0	0	0	0	9
	5:45 PM	0	4	0	0	3	0	0	0	0	0	0	0	7
	VOLUMES	1	40	0	0	42	2	1	0	5	0	0	0	91
	APPROACH %	2%	98%	0%	0%	95%	5%	17%	0%	83%	0%	0%	0%	
	APP/DEPART	41	/	41	44	/	47	6	/	0	0	/	3	0
	BEGIN PEAK HR		4:15 PM											
	VOLUMES	0	21	0	0	24	1	1	0	5	0	0	0	52
	APPROACH %	0%	100%	0%	0%	96%	4%	17%	0%	83%	0%	0%	0%	
	PEAK HR FACTOR		0.750			0.781			0.375			0.000		0.813
	APP/DEPART	21	/	22	25	/	29	6	/	0	0	/	1	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR	SRR	ERR	WRR
X	X	X	X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	5
WEDNESDAY	EAST & WEST:	6th	CONTROL:	STOP E

CLASS 3: 3-AXLE TRUCKS

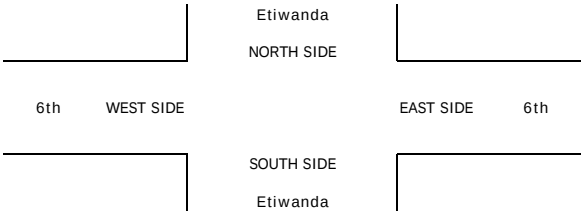
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND 6th			WESTBOUND 6th			
	LANES:	NL 1	NT 2	NR X	SL X	ST 2	SR 0	EL 1	ET X	ER 1	WL X	WT X	WR X	TOTAL
AM	7:00 AM	0	10	0	0	9	0	0	0	0	0	0	0	19
	7:15 AM	0	12	0	0	14	0	0	0	0	0	0	0	26
	7:30 AM	0	5	0	0	13	0	0	0	0	0	0	0	18
	7:45 AM	0	13	0	0	7	0	0	0	0	0	0	0	20
	8:00 AM	0	13	0	0	12	0	0	0	1	0	0	0	26
	8:15 AM	0	9	0	0	11	0	0	0	0	0	0	0	20
	8:30 AM	0	11	0	0	11	0	0	0	0	0	0	0	22
	8:45 AM	0	19	0	0	11	0	0	0	0	0	0	0	30
	VOLUMES	0	92	0	0	88	0	0	0	1	0	0	0	181
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	100%	0%	0%	0%	
	APP/DEPART	92	/	92	88	/	89	1	/	0	0	/	0	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	0	52	0	0	45	0	0	0	1	0	0	0	98
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	100%	0%	0%	0%	
	PEAK HR FACTOR		0.684			0.938			0.250			0.000		0.817
	APP/DEPART	52	/	52	45	/	46	1	/	0	0	/	0	0
PM	4:00 PM	0	14	0	0	11	0	0	0	0	0	0	0	25
	4:15 PM	0	6	0	0	7	0	0	0	0	0	0	0	13
	4:30 PM	0	5	0	0	10	1	0	0	0	0	0	0	16
	4:45 PM	0	11	0	0	18	0	0	0	1	0	0	0	30
	5:00 PM	0	7	0	0	16	0	0	0	0	0	0	0	23
	5:15 PM	0	8	0	0	13	0	0	0	0	0	0	0	21
	5:30 PM	0	3	0	0	8	0	0	0	0	0	0	0	11
	5:45 PM	0	8	0	0	14	0	0	0	0	0	0	0	22
	VOLUMES	0	62	0	0	97	1	0	0	1	0	0	0	161
	APPROACH %	0%	100%	0%	0%	99%	1%	0%	0%	100%	0%	0%	0%	
	APP/DEPART	62	/	62	98	/	98	1	/	0	0	/	1	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	0	31	0	0	57	1	0	0	1	0	0	0	90
	APPROACH %	0%	100%	0%	0%	98%	2%	0%	0%	100%	0%	0%	0%	
	PEAK HR FACTOR		0.705			0.806			0.250			0.000		0.750
	APP/DEPART	31	/	31	58	/	58	1	/	0	0	/	1	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	5
WEDNESDAY	EAST & WEST:	6th	CONTROL:	STOP E

CLASS 4: 4 OR MORE AXLE TRUCKS

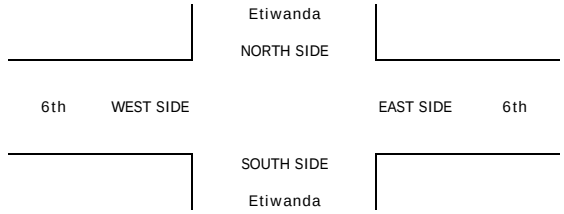
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Etiwanda)			SOUTHBOUND (Etiwanda)			EASTBOUND (6th)			WESTBOUND (6th)			
	LANES:	NL 1	NT 2	NR X	SL X	ST 2	SR 0	EL 1	ET X	ER 1	WL X	WT X	WR X	TOTAL
AM	7:00 AM	1	18	0	0	21	0	0	0	1	0	0	0	41
	7:15 AM	3	12	0	0	14	0	1	0	3	0	0	0	33
	7:30 AM	1	12	0	0	22	0	0	0	1	0	0	0	36
	7:45 AM	0	12	0	0	20	2	0	0	1	0	0	0	35
	8:00 AM	0	20	0	0	22	0	0	0	1	0	0	0	43
	8:15 AM	2	10	0	0	24	0	0	0	2	0	0	0	38
	8:30 AM	2	24	0	0	17	1	0	0	4	0	0	0	48
	8:45 AM	3	17	0	0	22	0	0	0	2	0	0	0	44
	VOLUMES	12	125	0	0	162	3	1	0	15	0	0	0	318
	APPROACH %	9%	91%	0%	0%	98%	2%	6%	0%	94%	0%	0%	0%	
	APP/DEPART	137	/	126	165	/	177	16	/	0	0	/	15	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	7	71	0	0	85	1	0	0	9	0	0	0	173
	APPROACH %	9%	91%	0%	0%	99%	1%	0%	0%	100%	0%	0%	0%	
	PEAK HR FACTOR		0.750			0.896			0.563			0.000		0.901
	APP/DEPART	78	/	71	86	/	94	9	/	0	0	/	8	0
PM	4:00 PM	0	12	0	0	7	0	0	0	1	0	0	0	20
	4:15 PM	0	16	0	0	8	0	0	0	0	0	0	0	24
	4:30 PM	0	10	0	0	6	0	1	0	0	0	0	0	17
	4:45 PM	0	9	0	0	12	0	0	0	0	0	0	0	21
	5:00 PM	0	15	0	0	1	0	0	0	0	0	0	0	16
	5:15 PM	0	8	0	0	12	0	0	0	0	0	0	0	20
	5:30 PM	2	8	0	0	7	0	0	0	1	0	0	0	18
	5:45 PM	0	17	0	0	8	0	0	0	0	0	0	0	25
	VOLUMES	2	95	0	0	61	0	1	0	2	0	0	0	161
	APPROACH %	2%	98%	0%	0%	100%	0%	33%	0%	67%	0%	0%	0%	
	APP/DEPART	97	/	96	61	/	63	3	/	0	0	/	2	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	47	0	0	33	0	1	0	1	0	0	0	82
	APPROACH %	0%	100%	0%	0%	100%	0%	50%	0%	50%	0%	0%	0%	
	PEAK HR FACTOR		0.734			0.688			0.500			0.000		0.854
	APP/DEPART	47	/	48	33	/	34	2	/	0	0	/	0	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR	SRR	ERR	WRR
X	X	X	X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	5
WEDNESDAY	EAST & WEST:	6th	CONTROL:	STOP E

CLASS 5:	NOTES:	AM		▲ N	
RV		PM			
		MD	◄ W		E ►
		OTHER		S ▼	
		OTHER			

		NORTHBOUND (Etiwanda)			SOUTHBOUND (Etiwanda)			EASTBOUND (6th)			WESTBOUND (6th)			
	LANES:	NL 1	NT 2	NR X	SL X	ST 2	SR 0	EL 1	ET X	ER 1	WL X	WT X	WR X	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		3:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS				
NB 0	SB 0	EB 0	WB 0	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR			
NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Etiwanda

NORTH SIDE

6th WEST SIDE EAST SIDE 6th

SOUTH SIDE

Etiwanda

INTERSECTION TURNING MOVEMENT COUNTS

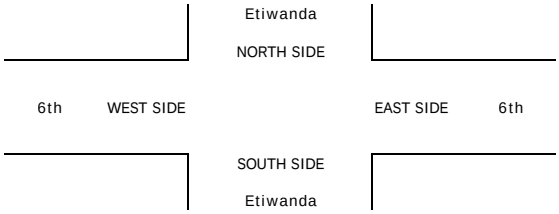
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	5
WEDNESDAY	EAST & WEST:	6th	CONTROL:	STOP E

CLASS 6:	NOTES:	AM / PM / MD / OTHER / OTHER	▲ N ◄ W E ► S ▼
BUSES			

		NORTHBOUND (Etiwanda)			SOUTHBOUND (Etiwanda)			EASTBOUND (6th)			WESTBOUND (6th)			
	LANES:	NL 1	NT 2	NR X	SL X	ST 2	SR 0	EL 1	ET X	ER 1	WL X	WT X	WR X	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	2
	7:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	2
	7:45 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
	8:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
	8:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
	VOLUMES	0	2	0	0	6	0	0	0	0	0	0	0	8
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	2	/	2	6	/	6	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	2	0	0	4	0	0	0	0	0	0	0	6
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.500			1.000			0.000			0.000		0.750
	APP/DEPART	2	/	2	4	/	4	0	/	0	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	1	0	0	0	0	0	0	0	1
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	1	/	1	0	/	0	0	/	0	0
	BEGIN PEAK HR		3:30 PM											
	VOLUMES	0	0	0	0	1	0	0	0	0	0	0	0	1
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.250			0.000			0.000		0.250
	APP/DEPART	0	/	0	1	/	1	0	/	0	0	/	0	0

U-TURNS					RTOR			
NB 0	SB 0	EB 0	WB 0	TTL	NRR X	SRR X	ERR X	WRR X
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
					0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
					0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

T1218

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

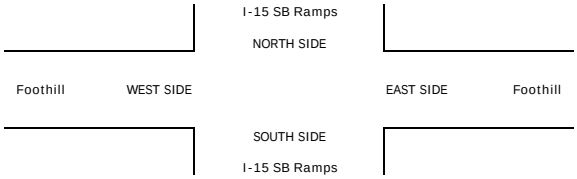
DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
Wed, Mar 11, 20	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	1
	EAST & WEST:	Foothill	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

Add U-Turns to Left Turns

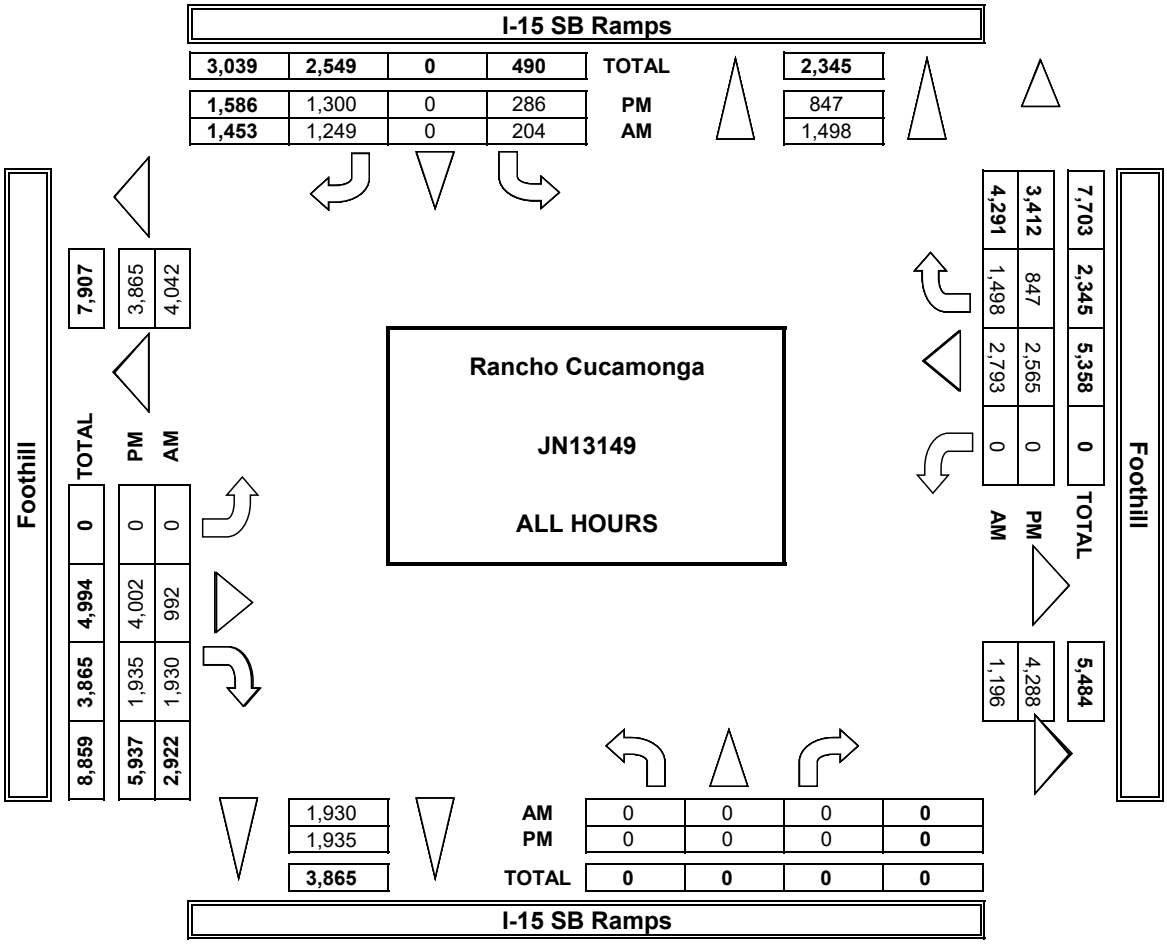
		NORTHBOUND I-15 SB Ramps			SOUTHBOUND I-15 SB Ramps			EASTBOUND Foothill			WESTBOUND Foothill				U-TURNS					RTOR			
	LANES:	NL X	NT X	NR X	SL 1.5	ST X	SR 1.5	EL X	ET 3	ER 1	WL X	WT 3	WR 1	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL	NRR X	SRR 0	ERR X	WRR X
AM	7:00 AM	0	0	0	31	0	112	0	99	269	0	264	196	971	0	0	0	0	0	0	79	0	0
	7:15 AM	0	0	0	29	0	138	0	107	265	0	374	230	1,143	0	0	0	0	0	0	66	0	0
	7:30 AM	0	0	0	21	0	152	0	121	294	0	375	199	1,162	0	0	0	0	0	0	74	0	0
	7:45 AM	0	0	0	33	0	194	0	142	216	0	392	228	1,205	0	0	0	0	0	0	66	0	0
	8:00 AM	0	0	0	17	0	168	0	142	252	0	369	216	1,164	0	0	0	0	0	0	94	0	0
	8:15 AM	0	0	0	23	0	159	0	127	251	0	336	174	1,070	0	0	0	0	0	0	80	0	0
	8:30 AM	0	0	0	26	0	145	0	135	233	0	329	145	1,013	0	0	0	0	0	0	73	0	0
	8:45 AM	0	0	0	24	0	181	0	119	150	0	354	110	938	0	0	0	0	0	0	75	0	0
	VOLUMES	0	0	0	204	0	1,249	0	992	1,930	0	2,793	1,498	8,666	0	0	0	0	0	0	607	0	0
	APPROACH %	0%	0%	0%	14%	0%	86%	0%	34%	66%	0%	65%	35%										
	APP/DEPART	0	/	1,498	1,453	/	1,930	2,922	/	1,196	4,291	/	4,042	0									
	BEGIN PEAK HR		7:15 AM																				
	VOLUMES	0	0	0	100	0	652	0	512	1,027	0	1,510	873	4,674						0	300	0	0
	APPROACH %	0%	0%	0%	13%	0%	87%	0%	33%	67%	0%	63%	37%										
	PEAK HR FACTOR		0.000			0.828			0.927			0.961		0.970									
	APP/DEPART	0	/	873	752	/	1,027	1,539	/	612	2,383	/	2,162	0									
PM	4:00 PM	0	0	0	31	0	132	0	481	234	0	296	110	1,284	0	0	0	0	0	0	61	0	0
	4:15 PM	0	0	0	31	0	136	0	496	239	0	302	138	1,342	0	0	0	0	0	0	55	0	0
	4:30 PM	0	0	0	52	0	167	0	479	241	0	309	107	1,355	0	0	0	0	0	0	48	0	0
	4:45 PM	0	0	0	57	0	159	0	512	228	0	330	111	1,397	0	0	0	0	0	0	64	0	0
	5:00 PM	0	0	0	31	0	150	0	542	250	0	369	95	1,437	0	0	0	0	0	0	54	0	0
	5:15 PM	0	0	0	35	0	180	0	539	276	0	335	89	1,454	0	0	0	0	0	0	73	0	0
	5:30 PM	0	0	0	21	0	156	0	492	269	0	308	94	1,340	0	0	0	0	0	0	72	0	0
	5:45 PM	0	0	0	28	0	220	0	461	198	0	316	103	1,326	0	0	0	0	0	0	60	0	0
	VOLUMES	0	0	0	286	0	1,300	0	4,002	1,935	0	2,565	847	10,935	0	0	0	0	0	0	487	0	0
	APPROACH %	0%	0%	0%	18%	0%	82%	0%	67%	33%	0%	75%	25%										
	APP/DEPART	0	/	847	1,586	/	1,935	5,937	/	4,288	3,412	/	3,865	0									
	BEGIN PEAK HR		4:30 PM																				
	VOLUMES	0	0	0	175	0	656	0	2,072	995	0	1,343	402	5,643						0	239	0	0
	APPROACH %	0%	0%	0%	21%	0%	79%	0%	68%	32%	0%	77%	23%										
	PEAK HR FACTOR		0.000			0.949			0.941			0.940		0.970									
	APP/DEPART	0	/	402	831	/	995	3,067	/	2,247	1,745	/	1,999	0									

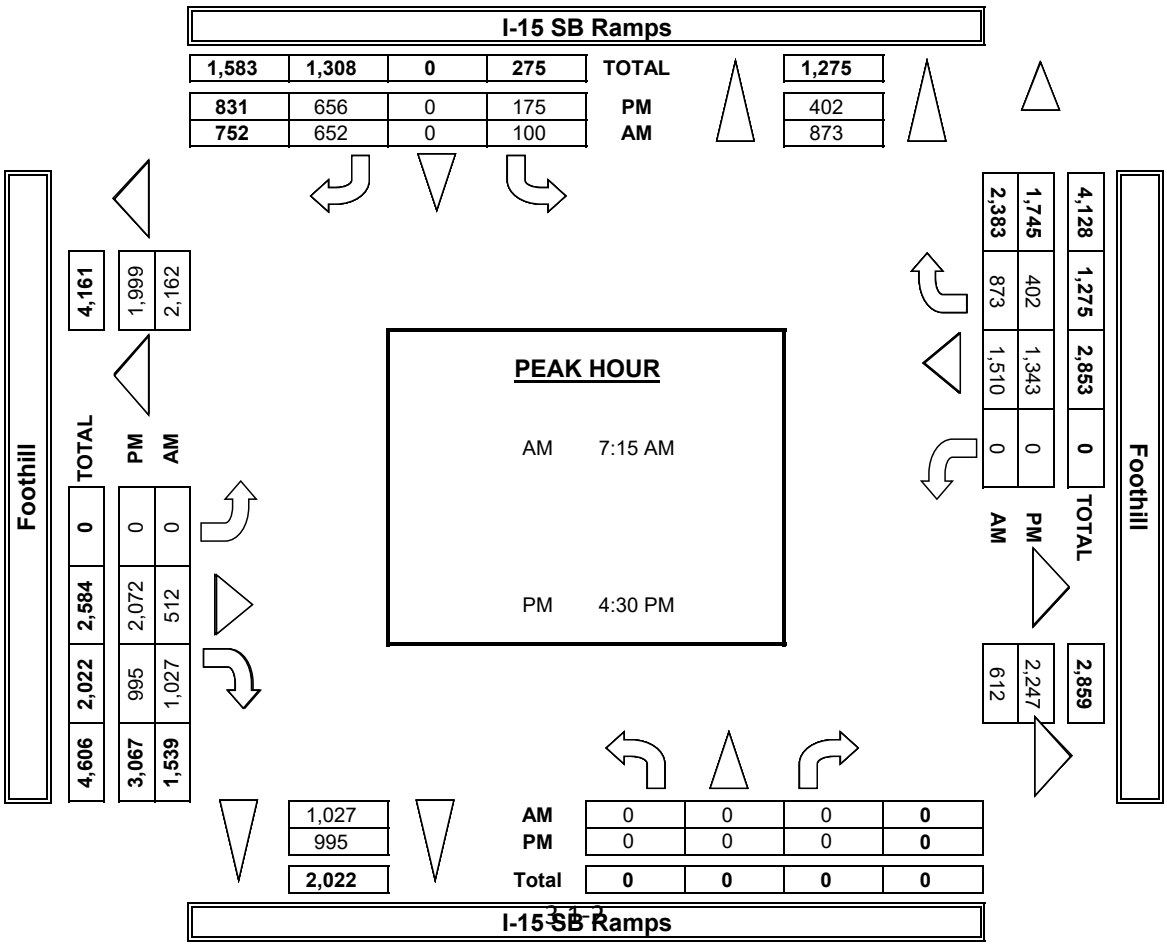


		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	1	1	2	0	0	1	1	2	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0
	TOTAL	0	0	2	1	3	0	0	2	1	3	0	0	0	0	0
PM	4:00 PM	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
	4:15 PM	0	0	2	1	3	0	0	0	0	0	0	0	2	1	3
	4:30 PM	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	1	1	2	0	0	0	1	1	0	0	1	0	1
	TOTAL	0	0	6	3	9	0	0	1	1	2	0	0	5	2	7

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Foothill	CONTROL:	SIGNAL

CLASS 1: PASSENGER VEHICLES

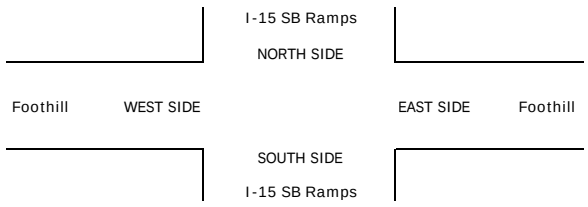
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (I-15 SB Ramps)			SOUTHBOUND (I-15 SB Ramps)			EASTBOUND (Foothill)			WESTBOUND (Foothill)			
	LANES:	NL X	NT X	NR X	SL 1.5	ST X	SR 1.5	EL X	ET 3	ER 1	WL X	WT 3	WR 1	TOTAL
AM	7:00 AM	0	0	0	26	0	106	0	85	257	0	244	189	907
	7:15 AM	0	0	0	24	0	131	0	89	254	0	354	213	1,065
	7:30 AM	0	0	0	17	0	147	0	115	283	0	355	181	1,098
	7:45 AM	0	0	0	28	0	185	0	132	209	0	362	214	1,130
	8:00 AM	0	0	0	15	0	160	0	131	244	0	348	199	1,097
	8:15 AM	0	0	0	17	0	156	0	118	242	0	319	156	1,008
	8:30 AM	0	0	0	20	0	137	0	115	222	0	309	131	934
	8:45 AM	0	0	0	18	0	173	0	115	141	0	336	92	875
	VOLUMES	0	0	0	165	0	1,195	0	900	1,852	0	2,627	1,375	8,114
	APPROACH %	0%	0%	0%	12%	0%	88%	0%	33%	67%	0%	66%	34%	
	APP/DEPART	0	/	1,375	1,360	/	1,852	2,752	/	1,065	4,002	/	3,822	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	84	0	623	0	467	990	0	1,419	807	4,390
	APPROACH %	0%	0%	0%	12%	0%	88%	0%	32%	68%	0%	64%	36%	
	PEAK HR FACTOR		0.000			0.830			0.915			0.966		0.971
	APP/DEPART	0	/	807	707	/	990	1,457	/	551	2,226	/	2,042	0
PM	4:00 PM	0	0	0	27	0	126	0	465	227	0	289	101	1,235
	4:15 PM	0	0	0	25	0	131	0	480	228	0	298	129	1,291
	4:30 PM	0	0	0	45	0	160	0	468	231	0	302	96	1,302
	4:45 PM	0	0	0	53	0	158	0	504	223	0	325	98	1,361
	5:00 PM	0	0	0	30	0	144	0	524	242	0	364	90	1,394
	5:15 PM	0	0	0	30	0	179	0	527	272	0	328	84	1,420
	5:30 PM	0	0	0	18	0	156	0	484	265	0	302	84	1,309
	5:45 PM	0	0	0	25	0	210	0	451	193	0	314	96	1,289
	VOLUMES	0	0	0	253	0	1,264	0	3,903	1,881	0	2,522	778	10,601
	APPROACH %	0%	0%	0%	17%	0%	83%	0%	67%	33%	0%	76%	24%	
	APP/DEPART	0	/	778	1,517	/	1,881	5,784	/	4,156	3,300	/	3,786	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	0	0	131	0	637	0	2,039	1,002	0	1,319	356	5,484
	APPROACH %	0%	0%	0%	17%	0%	83%	0%	67%	33%	0%	79%	21%	
	PEAK HR FACTOR		0.000			0.910			0.952			0.922		0.965
	APP/DEPART	0	/	356	768	/	1,002	3,041	/	2,170	1,675	/	1,956	0

U-TURNS					
	NB	SB	EB	WB	TTL
	0	0	0	0	0
AM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
PM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

RTOR			
NRR X	SRR 0	ERR X	WRR X
0	75	0	0
0	62	0	0
0	73	0	0
0	63	0	0
0	92	0	0
0	79	0	0
0	69	0	0
0	72	0	0
0	585	0	0
0	290	0	0
0	61	0	0
0	54	0	0
0	48	0	0
0	64	0	0
0	51	0	0
0	73	0	0
0	72	0	0
0	60	0	0
0	483	0	0
0	260	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Foothill	CONTROL:	SIGNAL

CLASS 2:	NOTES:	AM		▲ N	
2-AXLE		PM			
WORK		MD	◄ W		E ►
VEHICLES/		OTHER		S	
TRUCKS		OTHER		▼	

		NORTHBOUND I-15 SB Ramps			SOUTHBOUND I-15 SB Ramps			EASTBOUND Foothill			WESTBOUND Foothill			
	LANES:	NL X	NT X	NR X	SL 1.5	ST X	SR 1.5	EL X	ET 3	ER 1	WL X	WT 3	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	5	0	7	7	0	15	3	37
	7:15 AM	0	0	0	1	0	6	0	11	7	0	14	12	51
	7:30 AM	0	0	0	0	0	3	0	4	4	0	15	11	37
	7:45 AM	0	0	0	0	0	5	0	7	4	0	24	6	46
	8:00 AM	0	0	0	1	0	5	0	7	6	0	17	9	45
	8:15 AM	0	0	0	0	0	1	0	7	5	0	10	15	38
	8:30 AM	0	0	0	0	0	7	0	11	9	0	12	10	49
	8:45 AM	0	0	0	2	0	5	0	3	6	0	11	13	40
	VOLUMES	0	0	0	4	0	37	0	57	48	0	118	79	343
	APPROACH %	0%	0%	0%	10%	0%	90%	0%	54%	46%	0%	60%	40%	
	APP/DEPART	0	/	79	41	/	48	105	/	61	197	/	155	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	2	0	19	0	29	21	0	70	38	179
	APPROACH %	0%	0%	0%	10%	0%	90%	0%	58%	42%	0%	65%	35%	
	PEAK HR FACTOR		0.000			0.750			0.694			0.900		0.877
	APP/DEPART	0	/	38	21	/	21	50	/	31	108	/	89	0
PM	4:00 PM	0	0	0	1	0	3	0	9	6	0	3	6	28
	4:15 PM	0	0	0	0	0	3	0	8	8	0	1	5	25
	4:30 PM	0	0	0	1	0	2	0	2	7	0	5	6	23
	4:45 PM	0	0	0	1	0	1	0	3	4	0	3	6	18
	5:00 PM	0	0	0	0	0	3	0	13	5	0	4	2	27
	5:15 PM	0	0	0	0	0	0	0	7	3	0	4	3	17
	5:30 PM	0	0	0	0	0	0	0	6	3	0	5	6	20
	5:45 PM	0	0	0	0	0	5	0	7	3	0	0	4	19
	VOLUMES	0	0	0	3	0	17	0	55	39	0	25	38	177
	APPROACH %	0%	0%	0%	15%	0%	85%	0%	59%	41%	0%	40%	60%	
	APP/DEPART	0	/	38	20	/	39	94	/	58	63	/	42	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	3	0	9	0	22	25	0	12	23	94
	APPROACH %	0%	0%	0%	25%	0%	75%	0%	47%	53%	0%	34%	66%	
	PEAK HR FACTOR		0.000			0.750			0.734			0.795		0.839
	APP/DEPART	0	/	23	12	/	25	47	/	25	35	/	21	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0		
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR	SRR	ERR	WRR
X	0	X	X
0	4	0	0
0	4	0	0
0	1	0	0
0	1	0	0
0	1	0	0
0	1	0	0
0	4	0	0
0	3	0	0
0	19	0	0
0	7	0	0
0	0	0	0
0	1	0	0
0	0	0	0
0	1	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	2	0	0
0	1	0	0

I-15 SB Ramps

NORTH SIDE

Foothill WEST SIDE EAST SIDE Foothill

SOUTH SIDE

I-15 SB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Foothill	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

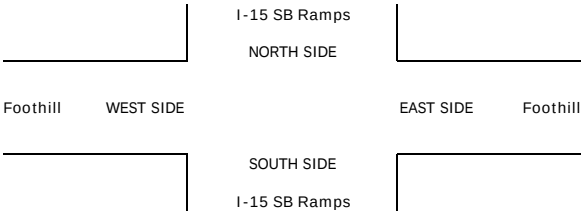
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (I-15 SB Ramps)			SOUTHBOUND (I-15 SB Ramps)			EASTBOUND (Foothill)			WESTBOUND (Foothill)			
	LANES:	NL X	NT X	NR X	SL 1.5	ST X	SR 1.5	EL X	ET 3	ER 1	WL X	WT 3	WR 1	TOTAL
AM	7:00 AM	0	0	0	1	0	0	0	2	3	0	2	0	8
	7:15 AM	0	0	0	0	0	0	0	2	2	0	2	0	6
	7:30 AM	0	0	0	0	0	0	0	1	0	0	2	1	4
	7:45 AM	0	0	0	0	0	0	0	0	0	0	1	3	4
	8:00 AM	0	0	0	1	0	0	0	2	1	0	2	3	9
	8:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	8:30 AM	0	0	0	0	0	0	0	2	0	0	3	0	5
	8:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	VOLUMES	0	0	0	2	0	0	0	9	6	0	14	7	38
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	60%	40%	0%	67%	33%	
	APP/DEPART	0	/	7	2	/	6	15	/	11	21	/	14	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	1	0	0	0	5	3	0	7	7	23
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	63%	38%	0%	50%	50%	
	PEAK HR FACTOR		0.000			0.250			0.500			0.700		0.639
	APP/DEPART	0	/	7	1	/	3	8	/	6	14	/	7	0
PM	4:00 PM	0	0	0	0	0	0	0	1	0	0	0	1	2
	4:15 PM	0	0	0	1	0	0	0	1	0	0	0	0	2
	4:30 PM	0	0	0	1	0	2	0	0	0	0	0	1	4
	4:45 PM	0	0	0	0	0	0	0	0	0	0	1	2	3
	5:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	1
	5:15 PM	0	0	0	1	0	0	0	2	0	0	1	0	4
	5:30 PM	0	0	0	2	0	0	0	0	1	0	0	0	3
	5:45 PM	0	0	0	1	0	0	0	0	0	0	0	1	2
	VOLUMES	0	0	0	6	0	3	0	4	1	0	2	5	21
	APPROACH %	0%	0%	0%	67%	0%	33%	0%	80%	20%	0%	29%	71%	
	APP/DEPART	0	/	5	9	/	1	5	/	10	7	/	5	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	0	0	0	2	0	3	0	2	0	0	2	3	12
	APPROACH %	0%	0%	0%	40%	0%	60%	0%	100%	0%	0%	40%	60%	
	PEAK HR FACTOR		0.000			0.417			0.250			0.417		0.750
	APP/DEPART	0	/	3	5	/	0	2	/	4	5	/	5	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR X	SRR 0	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Foothill	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (I-15 SB Ramps)			SOUTHBOUND (I-15 SB Ramps)			EASTBOUND (Foothill)			WESTBOUND (Foothill)			
	LANES:	NL X	NT X	NR X	SL 1.5	ST X	SR 1.5	EL X	ET 3	ER 1	WL X	WT 3	WR 1	TOTAL
AM	7:00 AM	0	0	0	4	0	1	0	2	2	0	2	3	14
	7:15 AM	0	0	0	4	0	1	0	2	2	0	3	5	17
	7:30 AM	0	0	0	4	0	2	0	0	6	0	2	5	19
	7:45 AM	0	0	0	5	0	2	0	2	3	0	3	5	20
	8:00 AM	0	0	0	0	0	2	0	1	1	0	1	5	10
	8:15 AM	0	0	0	6	0	2	0	1	3	0	4	3	19
	8:30 AM	0	0	0	6	0	0	0	4	2	0	1	4	17
	8:45 AM	0	0	0	4	0	3	0	0	2	0	5	5	19
	VOLUMES	0	0	0	33	0	13	0	12	21	0	21	35	135
	APPROACH %	0%	0%	0%	72%	0%	28%	0%	36%	64%	0%	38%	63%	
	APP/DEPART	0	/	35	46	/	21	33	/	45	56	/	34	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	0	0	17	0	6	0	6	13	0	10	18	70
	APPROACH %	0%	0%	0%	74%	0%	26%	0%	32%	68%	0%	36%	64%	
	PEAK HR FACTOR		0.000			0.821			0.792			0.875		0.875
	APP/DEPART	0	/	18	23	/	13	19	/	23	28	/	16	0
PM	4:00 PM	0	0	0	3	0	3	0	5	1	0	2	2	16
	4:15 PM	0	0	0	5	0	2	0	6	3	0	3	4	23
	4:30 PM	0	0	0	5	0	2	0	7	2	0	0	4	20
	4:45 PM	0	0	0	3	0	0	0	3	1	0	1	4	12
	5:00 PM	0	0	0	1	0	2	0	3	3	0	0	3	12
	5:15 PM	0	0	0	4	0	1	0	2	1	0	1	2	11
	5:30 PM	0	0	0	0	0	0	0	1	0	0	0	4	5
	5:45 PM	0	0	0	2	0	5	0	2	1	0	1	1	12
	VOLUMES	0	0	0	23	0	15	0	29	12	0	8	24	111
	APPROACH %	0%	0%	0%	61%	0%	39%	0%	71%	29%	0%	25%	75%	
	APP/DEPART	0	/	24	38	/	12	41	/	52	32	/	23	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	16	0	7	0	21	7	0	6	14	71
	APPROACH %	0%	0%	0%	70%	0%	30%	0%	75%	25%	0%	30%	70%	
	PEAK HR FACTOR		0.000			0.821			0.778			0.714		0.772
	APP/DEPART	0	/	14	23	/	7	28	/	37	20	/	13	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Foothill	CONTROL:	SIGNAL

CLASS 5:	NOTES:	AM	▲ N	
RV		PM		
		MD	◄ W	E ►
		OTHER		
		OTHER	S ▼	

		NORTHBOUND I-15 SB Ramps			SOUTHBOUND I-15 SB Ramps			EASTBOUND Foothill			WESTBOUND Foothill			
	LANES:	NL X	NT X	NR X	SL 1.5	ST X	SR 1.5	EL X	ET 3	ER 1	WL X	WT 3	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	1
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	2	0	0	0	0	0	0	2
	8:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	1
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	3	0	0	0	0	0	1	4
	APPROACH %	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	100%	
	APP/DEPART	0	/	1	3	/	0	0	/	0	1	/	3	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	0	0	0	0	2	0	0	0	0	0	1	3
	APPROACH %	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	100%	
	PEAK HR FACTOR		0.000			0.250			0.000			0.250		0.375
	APP/DEPART	0	/	1	2	/	0	0	/	0	1	/	2	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		3:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	0
0	1	0	0
0	1	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	2	0	0
0	1	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

I-15 SB Ramps

NORTH SIDE

Foothill WEST SIDE EAST SIDE Foothill

SOUTH SIDE

I-15 SB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

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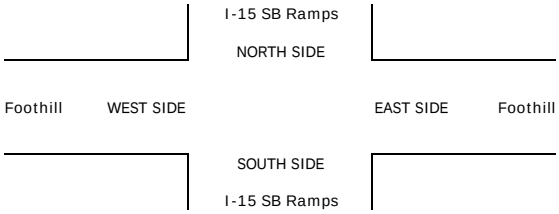
DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	I-15 SB Ramps	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Foothill	CONTROL:	SIGNAL

CLASS 6:	NOTES:	AM / PM / MD / OTHER / OTHER	▲ N / ◄ W / E ► / S ▼
BUSES			

		NORTHBOUND I-15 SB Ramps			SOUTHBOUND I-15 SB Ramps			EASTBOUND Foothill			WESTBOUND Foothill			
	LANES:	NL X	NT X	NR X	SL 1.5	ST X	SR 1.5	EL X	ET 3	ER 1	WL X	WT 3	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	3	0	0	1	0	4
	7:15 AM	0	0	0	0	0	0	0	3	0	0	1	0	4
	7:30 AM	0	0	0	0	0	0	0	1	1	0	1	1	4
	7:45 AM	0	0	0	0	0	0	0	1	0	0	2	0	3
	8:00 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
	8:15 AM	0	0	0	0	0	0	0	1	1	0	2	0	4
	8:30 AM	0	0	0	0	0	1	0	3	0	0	4	0	8
	8:45 AM	0	0	0	0	0	0	0	1	1	0	1	0	3
	VOLUMES	0	0	0	0	0	1	0	14	3	0	13	1	32
	APPROACH %	0%	0%	0%	0%	0%	100%	0%	82%	18%	0%	93%	7%	
	APP/DEPART	0	/	1	1	/	3	17	/	14	14	/	14	0
	BEGIN PEAK HR		7:45 AM											
	VOLUMES	0	0	0	0	0	1	0	6	1	0	9	0	17
	APPROACH %	0%	0%	0%	0%	0%	100%	0%	86%	14%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.250			0.583			0.563		0.531
	APP/DEPART	0	/	0	1	/	1	7	/	6	9	/	10	0
PM	4:00 PM	0	0	0	0	0	0	0	1	0	0	2	0	3
	4:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	4:30 PM	0	0	0	0	0	1	0	2	1	0	2	0	6
	4:45 PM	0	0	0	0	0	0	0	2	0	0	0	1	3
	5:00 PM	0	0	0	0	0	0	0	2	0	0	1	0	3
	5:15 PM	0	0	0	0	0	0	0	1	0	0	1	0	2
	5:30 PM	0	0	0	1	0	0	0	1	0	0	1	0	3
	5:45 PM	0	0	0	0	0	0	0	1	1	0	1	1	4
	VOLUMES	0	0	0	1	0	1	0	11	2	0	8	2	25
	APPROACH %	0%	0%	0%	50%	0%	50%	0%	85%	15%	0%	80%	20%	
	APP/DEPART	0	/	2	2	/	2	13	/	12	10	/	9	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	0	0	0	0	0	1	0	7	1	0	4	1	14
	APPROACH %	0%	0%	0%	0%	0%	100%	0%	88%	13%	0%	80%	20%	
	PEAK HR FACTOR		0.000			0.250			0.667			0.625		0.583
	APP/DEPART	0	/	1	1	/	1	8	/	7	5	/	5	0

U-TURNS					
	NB	SB	EB	WB	TTL
	0	0	0	0	
AM	0	0	0	0	0
PM	0	0	0	0	0

RTOR				
	NRR	SRR	ERR	WRR
	X	0	X	X
AM	0	0	0	0
	0	0	0	0
PM	0	0	0	0
	0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

T1218

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
Wed, Mar 11, 20	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	2
	EAST & WEST:	Foothill	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ◄ W — ▲ N — S ▼ — E ►

Add U-Turns to Left Turns

		NORTHBOUND (I-15 NB Ramps)			SOUTHBOUND (I-15 NB Ramps)			EASTBOUND (Foothill)			WESTBOUND (Foothill)			
	LANES:	NL 1.5	NT X	NR 1.5	SL X	ST X	SR X	EL X	ET 3	ER 1	WL X	WT 3	WR 1	TOTAL
AM	7:00 AM	180	0	100	0	0	0	0	79	51	0	280	37	727
	7:15 AM	215	0	91	0	0	0	0	88	48	0	389	43	874
	7:30 AM	224	0	110	0	0	0	0	87	53	0	350	37	861
	7:45 AM	237	0	134	0	0	0	0	117	58	0	386	41	973
	8:00 AM	212	0	92	0	0	0	0	89	70	0	373	50	886
	8:15 AM	211	0	109	0	0	0	0	98	48	0	299	21	786
	8:30 AM	203	0	99	0	0	0	0	112	49	0	275	26	764
	8:45 AM	232	0	107	0	0	0	0	97	42	0	236	35	749
	VOLUMES	1,714	0	842	0	0	0	0	767	419	0	2,588	290	6,620
	APPROACH %	67%	0%	33%	0%	0%	0%	0%	65%	35%	0%	90%	10%	
	APP/DEPART	2,556	/	290	0	/	419	1,186	/	1,609	2,878	/	4,302	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	888	0	427	0	0	0	0	381	229	0	1,498	171	3,594
	APPROACH %	68%	0%	32%	0%	0%	0%	0%	62%	38%	0%	90%	10%	
	PEAK HR FACTOR		0.886			0.000			0.871			0.966		0.923
	APP/DEPART	1,315	/	171	0	/	229	610	/	808	1,669	/	2,386	0
PM	4:00 PM	139	0	117	0	0	0	0	267	239	0	271	82	1,115
	4:15 PM	131	0	140	0	0	0	0	281	255	0	309	96	1,212
	4:30 PM	153	0	137	0	0	0	0	284	243	0	263	75	1,155
	4:45 PM	158	0	134	0	0	0	0	304	265	0	283	92	1,236
	5:00 PM	164	0	142	0	0	0	0	306	267	0	304	95	1,278
	5:15 PM	154	0	137	0	0	0	0	286	288	0	270	86	1,221
	5:30 PM	147	0	147	0	0	0	0	283	230	0	255	74	1,136
	5:45 PM	163	0	146	0	0	0	0	260	224	0	256	75	1,124
	VOLUMES	1,209	0	1,100	0	0	0	0	2,271	2,011	0	2,211	675	9,477
	APPROACH %	52%	0%	48%	0%	0%	0%	0%	53%	47%	0%	77%	23%	
	APP/DEPART	2,309	/	675	0	/	2,011	4,282	/	3,371	2,886	/	3,420	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	629	0	550	0	0	0	0	1,180	1,063	0	1,120	348	4,890
	APPROACH %	53%	0%	47%	0%	0%	0%	0%	53%	47%	0%	76%	24%	
	PEAK HR FACTOR		0.963			0.000			0.977			0.920		0.957
	APP/DEPART	1,179	/	348	0	/	1,063	2,243	/	1,730	1,468	/	1,749	0

U-TURNS					
NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR			
NRR	SRR	ERR	WRR
0	X	X	X
45	0	0	0
33	0	0	0
50	0	0	0
55	0	0	0
44	0	0	0
53	0	0	0
45	0	0	0
37	0	0	0
362	0	0	0
182	0	0	0
51	0	0	0
31	0	0	0
33	0	0	0
41	0	0	0
35	0	0	0
32	0	0	0
42	0	0	0
40	0	0	0
305	0	0	0
141	0	0	0



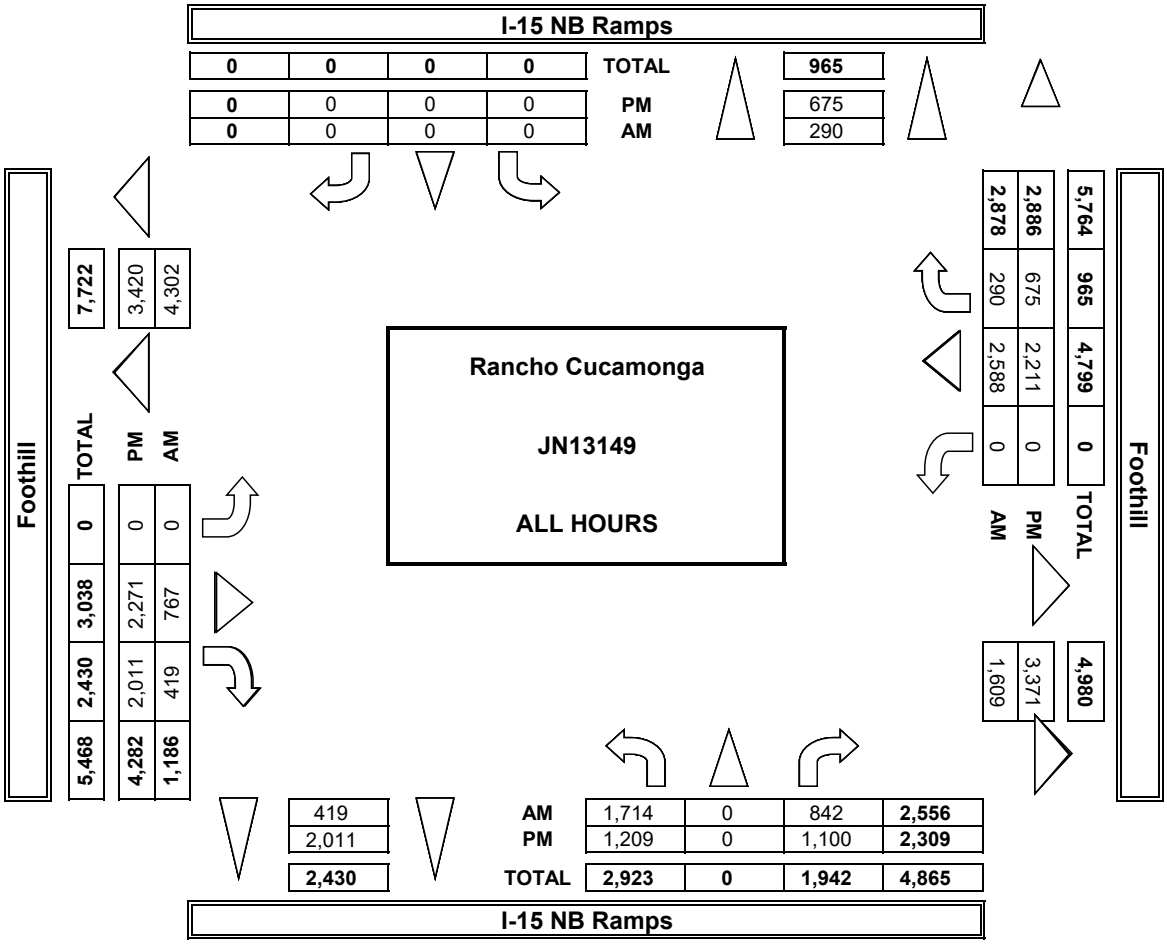
		ALL PED AND BIKE				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL
AM	7:00 AM	0	0	0	0	0
	7:15 AM	0	0	0	0	0
	7:30 AM	0	0	0	0	0
	7:45 AM	0	0	0	0	0
	8:00 AM	0	0	0	0	0
	8:15 AM	1	0	1	1	3
	8:30 AM	1	0	0	1	2
	8:45 AM	0	0	1	0	1
	TOTAL	2	0	2	2	6
PM	4:00 PM	0	0	0	3	3
	4:15 PM	3	0	2	1	6
	4:30 PM	0	0	2	0	2
	4:45 PM	0	0	0	0	0
	5:00 PM	0	0	1	0	1
	5:15 PM	0	0	1	0	1
	5:30 PM	0	0	0	0	0
	5:45 PM	0	0	1	1	2
	TOTAL	3	0	7	5	15

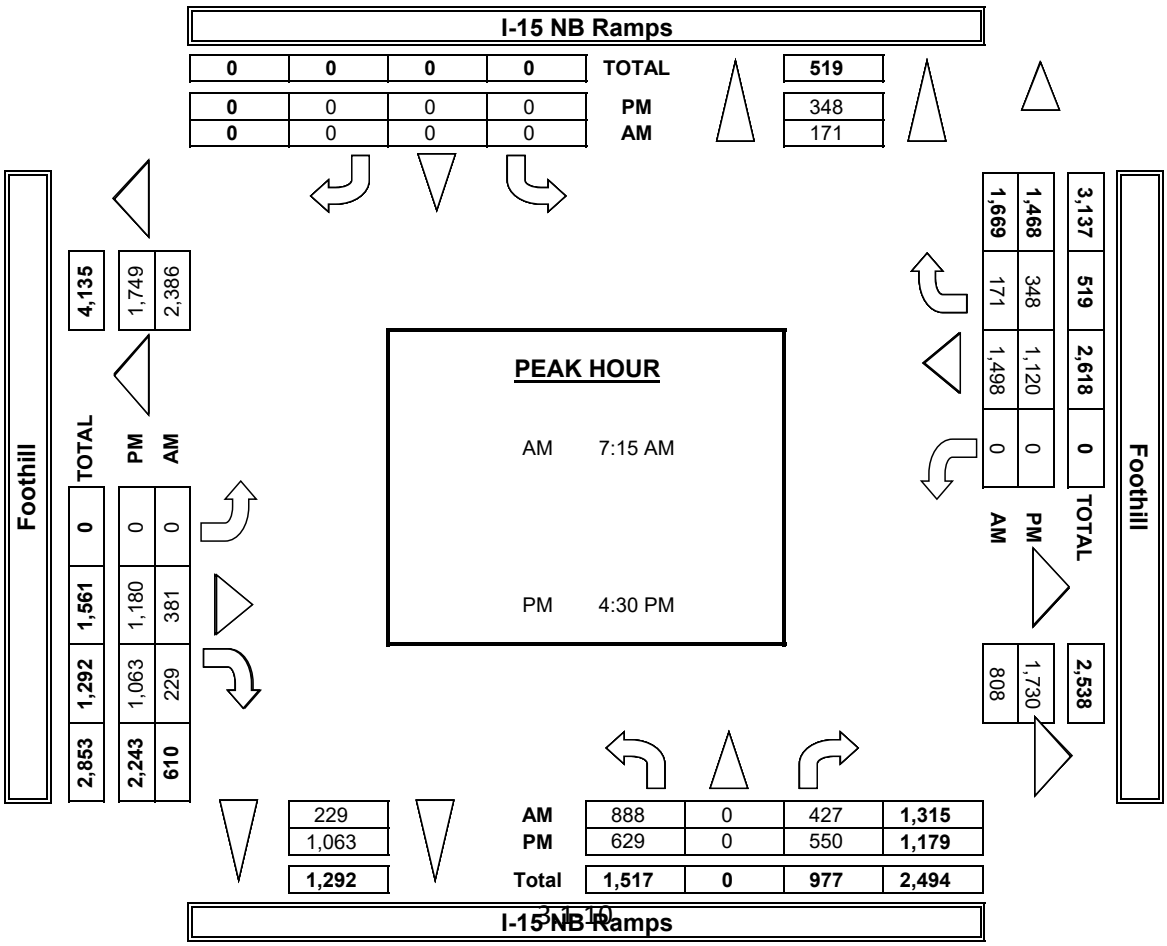
	PEDESTRIAN CROSSINGS				
	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	1	0	1
8:30 AM	1	0	0	1	2
8:45 AM	0	0	1	0	1
TOTAL	1	0	2	1	4
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	1	0	1
5:15 PM	0	0	1	0	1
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL	0	0	2	0	2

	BICYCLE CROSSINGS				
	ES	WS	SS	NS	TOTAL
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	1	0	0	1	2
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
TOTAL	1	0	0	1	2
4:00 PM	0	0	0	3	3
4:15 PM	3	0	2	1	6
4:30 PM	0	0	2	0	2
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	1	1	2
TOTAL	3	0	5	5	13

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Foothill	CONTROL:	SIGNAL

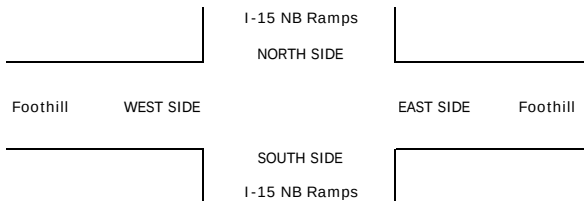
CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (I-15 NB Ramps)			SOUTHBOUND (I-15 NB Ramps)			EASTBOUND (Foothill)			WESTBOUND (Foothill)			
	LANES:	NL 1.5	NT X	NR 1.5	SL X	ST X	SR X	EL X	ET 3	ER 1	WL X	WT 3	WR 1	TOTAL
AM	7:00 AM	166	0	85	0	0	0	0	65	46	0	267	29	658
	7:15 AM	200	0	78	0	0	0	0	71	42	0	367	37	795
	7:30 AM	209	0	96	0	0	0	0	78	52	0	327	30	792
	7:45 AM	215	0	130	0	0	0	0	106	54	0	364	34	903
	8:00 AM	196	0	78	0	0	0	0	84	62	0	351	42	813
	8:15 AM	195	0	88	0	0	0	0	88	43	0	280	19	713
	8:30 AM	190	0	78	0	0	0	0	96	39	0	254	21	678
	8:45 AM	214	0	89	0	0	0	0	90	39	0	218	30	680
	VOLUMES	1,585	0	722	0	0	0	0	678	377	0	2,428	242	6,032
	APPROACH %	69%	0%	31%	0%	0%	0%	0%	64%	36%	0%	91%	9%	
	APP/DEPART	2,307	/	242	0	/	377	1,055	/	1,400	2,670	/	4,013	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	820	0	382	0	0	0	0	339	210	0	1,409	143	3,303
	APPROACH %	68%	0%	32%	0%	0%	0%	0%	62%	38%	0%	91%	9%	
	PEAK HR FACTOR		0.871			0.000			0.858			0.960		0.914
	APP/DEPART	1,202	/	143	0	/	210	549	/	721	1,552	/	2,229	0
PM	4:00 PM	135	0	100	0	0	0	0	254	232	0	259	77	1,057
	4:15 PM	127	0	133	0	0	0	0	268	246	0	300	86	1,160
	4:30 PM	150	0	132	0	0	0	0	274	235	0	248	66	1,105
	4:45 PM	155	0	128	0	0	0	0	296	261	0	268	76	1,184
	5:00 PM	160	0	133	0	0	0	0	291	262	0	298	88	1,232
	5:15 PM	150	0	129	0	0	0	0	275	283	0	262	82	1,181
	5:30 PM	141	0	142	0	0	0	0	276	226	0	245	70	1,100
	5:45 PM	160	0	138	0	0	0	0	252	219	0	250	72	1,091
	VOLUMES	1,178	0	1,035	0	0	0	0	2,186	1,964	0	2,130	617	9,110
	APPROACH %	53%	0%	47%	0%	0%	0%	0%	53%	47%	0%	78%	22%	
	APP/DEPART	2,213	/	617	0	/	1,964	4,150	/	3,221	2,747	/	3,308	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	615	0	522	0	0	0	0	1,136	1,041	0	1,076	312	4,702
	APPROACH %	54%	0%	46%	0%	0%	0%	0%	52%	48%	0%	78%	22%	
	PEAK HR FACTOR		0.970			0.000			0.975			0.899		0.954
	APP/DEPART	1,137	/	312	0	/	1,041	2,177	/	1,658	1,388	/	1,691	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR 0	SRR X	ERR X	WRR X
38	0	0	0
29	0	0	0
45	0	0	0
51	0	0	0
38	0	0	0
44	0	0	0
39	0	0	0
30	0	0	0
314	0	0	0
163	0	0	0
46	0	0	0
30	0	0	0
33	0	0	0
40	0	0	0
35	0	0	0
30	0	0	0
39	0	0	0
38	0	0	0
291	0	0	0
138	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Foothill	CONTROL:	SIGNAL

CLASS 2:	NOTES:	AM		▲ N	
2-AXLE		PM			
WORK		MD	◄ W		E ►
VEHICLES/		OTHER		S	
TRUCKS		OTHER		▼	

		NORTHBOUND (I-15 NB Ramps)			SOUTHBOUND (I-15 NB Ramps)			EASTBOUND (Foothill)			WESTBOUND (Foothill)			
	LANES:	NL 1.5	NT X	NR 1.5	SL X	ST X	SR X	EL X	ET 3	ER 1	WL X	WT 3	WR 1	TOTAL
AM	7:00 AM	11	0	7	0	0	0	0	4	3	0	7	0	32
	7:15 AM	11	0	7	0	0	0	0	7	5	0	15	1	46
	7:30 AM	11	0	8	0	0	0	0	3	1	0	15	1	39
	7:45 AM	18	0	3	0	0	0	0	5	2	0	12	2	42
	8:00 AM	11	0	5	0	0	0	0	3	5	0	15	2	41
	8:15 AM	12	0	14	0	0	0	0	3	4	0	13	0	46
	8:30 AM	10	0	11	0	0	0	0	5	6	0	12	0	44
	8:45 AM	14	0	9	0	0	0	0	3	2	0	10	1	39
	VOLUMES	98	0	64	0	0	0	0	33	28	0	99	7	329
	APPROACH %	60%	0%	40%	0%	0%	0%	0%	54%	46%	0%	93%	7%	
	APP/DEPART	162	/	7	0	/	28	61	/	97	106	/	197	0
	BEGIN PEAK HR	7:45 AM												
	VOLUMES	51	0	33	0	0	0	0	16	17	0	52	4	173
	APPROACH %	61%	0%	39%	0%	0%	0%	0%	48%	52%	0%	93%	7%	
	PEAK HR FACTOR	0.808			0.000			0.750			0.824			0.940
	APP/DEPART	84	/	4	0	/	17	33	/	49	56	/	103	0
PM	4:00 PM	2	0	12	0	0	0	0	5	5	0	7	1	32
	4:15 PM	3	0	4	0	0	0	0	3	5	0	3	4	22
	4:30 PM	2	0	3	0	0	0	0	2	1	0	9	3	20
	4:45 PM	2	0	4	0	0	0	0	4	0	0	7	6	23
	5:00 PM	4	0	3	0	0	0	0	8	5	0	2	2	24
	5:15 PM	3	0	5	0	0	0	0	4	3	0	4	3	22
	5:30 PM	6	0	2	0	0	0	0	2	4	0	5	2	21
	5:45 PM	2	0	6	0	0	0	0	4	3	0	2	2	19
	VOLUMES	24	0	39	0	0	0	0	32	26	0	39	23	183
	APPROACH %	38%	0%	62%	0%	0%	0%	0%	55%	45%	0%	63%	37%	
	APP/DEPART	63	/	23	0	/	26	58	/	71	62	/	63	0
	BEGIN PEAK HR	4:00 PM												
	VOLUMES	9	0	23	0	0	0	0	14	11	0	26	14	97
	APPROACH %	28%	0%	72%	0%	0%	0%	0%	56%	44%	0%	65%	35%	
	PEAK HR FACTOR	0.571			0.000			0.625			0.769			0.758
	APP/DEPART	32	/	14	0	/	11	25	/	37	40	/	35	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0		
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR	SRR	ERR	WRR
0	X	X	X
4	0	0	0
3	0	0	0
3	0	0	0
3	0	0	0
3	0	0	0
5	0	0	0
5	0	0	0
2	0	0	0
28	0	0	0
16	0	0	0
3	0	0	0
1	0	0	0
0	0	0	0
1	0	0	0
0	0	0	0
2	0	0	0
1	0	0	0
2	0	0	0
10	0	0	0
5	0	0	0

I-15 NB Ramps

NORTH SIDE

Foothill WEST SIDE EAST SIDE Foothill

SOUTH SIDE

I-15 NB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Foothill	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (I-15 NB Ramps)			SOUTHBOUND (I-15 NB Ramps)			EASTBOUND (Foothill)			WESTBOUND (Foothill)			
	LANES:	NL 1.5	NT X	NR 1.5	SL X	ST X	SR X	EL X	ET 3	ER 1	WL X	WT 3	WR 1	TOTAL
AM	7:00 AM	1	0	2	0	0	0	0	3	0	0	1	2	9
	7:15 AM	2	0	0	0	0	0	0	2	0	0	0	1	5
	7:30 AM	1	0	2	0	0	0	0	1	0	0	2	2	8
	7:45 AM	1	0	0	0	0	0	0	0	0	0	3	0	4
	8:00 AM	3	0	2	0	0	0	0	1	2	0	2	2	12
	8:15 AM	0	0	4	0	0	0	0	0	0	0	1	0	5
	8:30 AM	1	0	2	0	0	0	0	0	2	0	2	0	7
	8:45 AM	1	0	3	0	0	0	0	0	0	0	0	0	4
	VOLUMES	10	0	15	0	0	0	0	7	4	0	11	7	54
	APPROACH %	40%	0%	60%	0%	0%	0%	0%	64%	36%	0%	61%	39%	
	APP/DEPART	25	/	7	0	/	4	11	/	22	18	/	21	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	7	0	4	0	0	0	0	4	2	0	7	5	29
	APPROACH %	64%	0%	36%	0%	0%	0%	0%	67%	33%	0%	58%	42%	
	PEAK HR FACTOR		0.550			0.000			0.500			0.750		0.604
	APP/DEPART	11	/	5	0	/	2	6	/	8	12	/	14	0
PM	4:00 PM	0	0	0	0	0	0	0	1	0	0	1	1	3
	4:15 PM	0	0	1	0	0	0	0	2	0	0	0	1	4
	4:30 PM	1	0	0	0	0	0	0	0	1	0	0	0	2
	4:45 PM	0	0	0	0	0	0	0	0	0	0	3	5	8
	5:00 PM	0	0	2	0	0	0	0	0	0	0	0	1	3
	5:15 PM	0	0	0	0	0	0	0	3	0	0	1	0	4
	5:30 PM	0	0	1	0	0	0	0	2	0	0	0	0	3
	5:45 PM	0	0	0	0	0	0	0	1	0	0	1	0	2
	VOLUMES	1	0	4	0	0	0	0	9	1	0	6	8	29
	APPROACH %	20%	0%	80%	0%	0%	0%	0%	90%	10%	0%	43%	57%	
	APP/DEPART	5	/	8	0	/	1	10	/	13	14	/	7	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	0	3	0	0	0	0	5	0	0	4	6	18
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	40%	60%	
	PEAK HR FACTOR		0.375			0.000			0.417			0.313		0.563
	APP/DEPART	3	/	6	0	/	0	5	/	8	10	/	4	0

U-TURNS					
	NB	SB	EB	WB	TTL
	0	0	0	0	
AM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
PM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

RTOR			
NRR 0	SRR X	ERR X	WRR X
2	0	0	0
0	0	0	0
1	0	0	0
0	0	0	0
1	0	0	0
3	0	0	0
0	0	0	0
1	0	0	0
8	0	0	0
2	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1	0	0	0
1	0	0	0

I-15 NB Ramps

NORTH SIDE

Foothill WEST SIDE EAST SIDE Foothill

SOUTH SIDE

I-15 NB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Foothill	CONTROL:	SIGNAL

CLASS 4:	NOTES:	AM	▲ N	
4 OR MORE AXLE TRUCKS		PM MD OTHER OTHER	◄ W	E ►
			S ▼	

		NORTHBOUND (I-15 NB Ramps)			SOUTHBOUND (I-15 NB Ramps)			EASTBOUND (Foothill)			WESTBOUND (Foothill)			
	LANES:	NL 1.5	NT X	NR 1.5	SL X	ST X	SR X	EL X	ET 3	ER 1	WL X	WT 3	WR 1	TOTAL
AM	7:00 AM	1	0	4	0	0	0	0	4	2	0	4	5	20
	7:15 AM	2	0	5	0	0	0	0	5	1	0	6	4	23
	7:30 AM	3	0	4	0	0	0	0	4	0	0	4	4	19
	7:45 AM	2	0	1	0	0	0	0	5	2	0	6	5	21
	8:00 AM	2	0	7	0	0	0	0	0	1	0	4	4	18
	8:15 AM	3	0	3	0	0	0	0	6	1	0	4	2	19
	8:30 AM	1	0	8	0	0	0	0	9	1	0	4	5	28
	8:45 AM	3	0	6	0	0	0	0	3	1	0	7	4	24
	VOLUMES	17	0	38	0	0	0	0	36	9	0	39	33	172
	APPROACH %	31%	0%	69%	0%	0%	0%	0%	80%	20%	0%	54%	46%	
	APP/DEPART	55	/	33	0	/	9	45	/	74	72	/	56	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	9	0	24	0	0	0	0	18	4	0	19	15	89
	APPROACH %	27%	0%	73%	0%	0%	0%	0%	82%	18%	0%	56%	44%	
	PEAK HR FACTOR		0.917			0.000			0.550			0.773		0.795
	APP/DEPART	33	/	15	0	/	4	22	/	42	34	/	28	0
PM	4:00 PM	2	0	5	0	0	0	0	6	2	0	2	3	20
	4:15 PM	1	0	2	0	0	0	0	7	4	0	6	5	25
	4:30 PM	0	0	2	0	0	0	0	7	5	0	4	6	24
	4:45 PM	1	0	2	0	0	0	0	3	3	0	4	5	18
	5:00 PM	0	0	4	0	0	0	0	5	0	0	3	4	16
	5:15 PM	1	0	2	0	0	0	0	3	2	0	2	1	11
	5:30 PM	0	0	2	0	0	0	0	1	0	0	4	2	9
	5:45 PM	1	0	2	0	0	0	0	2	2	0	1	1	9
	VOLUMES	6	0	21	0	0	0	0	34	18	0	26	27	132
	APPROACH %	22%	0%	78%	0%	0%	0%	0%	65%	35%	0%	49%	51%	
	APP/DEPART	27	/	27	0	/	18	52	/	55	53	/	32	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	4	0	11	0	0	0	0	23	14	0	16	19	87
	APPROACH %	27%	0%	73%	0%	0%	0%	0%	62%	38%	0%	46%	54%	
	PEAK HR FACTOR		0.536			0.000			0.771			0.795		0.870
	APP/DEPART	15	/	19	0	/	14	37	/	34	35	/	20	0

U-TURNS					RTOR			
NB 0	SB 0	EB 0	WB 0	TTL	NRR 0	SRR X	ERR X	WRR X
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	0
0	0	0	0	0	1	0	0	0
0	0	0	0	0	2	0	0	0
0	0	0	0	0	1	0	0	0
0	0	0	0	0	1	0	0	0
0	0	0	0	0	4	0	0	0
0	0	0	0	0	10	0	0	0
					8	0	0	0
0	0	0	0	0	2	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	3	0	0	0
					2	0	0	0

I-15 NB Ramps

NORTH SIDE

Foothill WEST SIDE EAST SIDE Foothill

SOUTH SIDE

I-15 NB Ramps

INTERSECTION TURNING MOVEMENT COUNTS

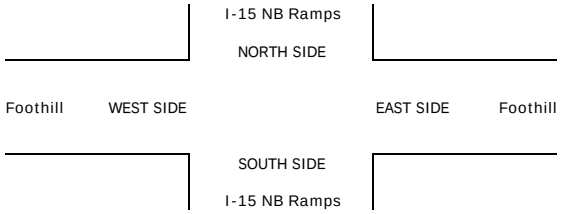
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Foothill	CONTROL:	SIGNAL

CLASS 5:	NOTES:	AM		▲ N	
RV		PM			E ►
		MD	◄ W		
		OTHER		S ▼	
		OTHER			

		NORTHBOUND (I-15 NB Ramps)			SOUTHBOUND (I-15 NB Ramps)			EASTBOUND (Foothill)			WESTBOUND (Foothill)			
	LANES:	NL 1.5	NT X	NR 1.5	SL X	ST X	SR X	EL X	ET 3	ER 1	WL X	WT 3	WR 1	TOTAL
AM	7:00 AM	1	0	0	0	0	0	0	0	0	0	0	0	1
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	1	0	0	0	0	0	0	0	0	0	0	0	1
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	1	/	0	0	/	0	0	/	0	0	/	1	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	1	0	0	0	0	0	0	0	0	0	0	0	1
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.250			0.000			0.000			0.000		0.250
	APP/DEPART	1	/	0	0	/	0	0	/	0	0	/	1	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	1	0	0	0	0	0	0	0	0	0	1
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	1	0	0	0	0	0	0	0	0	0	1
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	1	/	0	0	/	0	0	/	1	0	/	0	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	0	0	1	0	0	0	0	0	0	0	0	0	1
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.250			0.000			0.000			0.000		0.250
	APP/DEPART	1	/	0	0	/	0	0	/	1	0	/	0	0

U-TURNS					RTOR			
NB 0	SB 0	EB 0	WB 0	TTL	NRR 0	SRR X	ERR X	WRR X
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
					0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
					0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

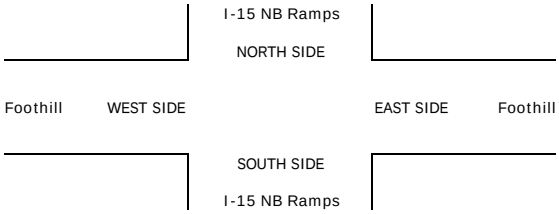
DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	I-15 NB Ramps	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Foothill	CONTROL:	SIGNAL

CLASS 6:	NOTES:	AM / PM / MD / OTHER / OTHER	▲ N / ◄ W / E ► / S ▼
BUSES			

		NORTHBOUND I-15 NB Ramps			SOUTHBOUND I-15 NB Ramps			EASTBOUND Foothill			WESTBOUND Foothill			
	LANES:	NL 1.5	NT X	NR 1.5	SL X	ST X	SR X	EL X	ET 3	ER 1	WL X	WT 3	WR 1	TOTAL
AM	7:00 AM	0	0	2	0	0	0	0	3	0	0	1	1	7
	7:15 AM	0	0	1	0	0	0	0	3	0	0	1	0	5
	7:30 AM	0	0	0	0	0	0	0	1	0	0	2	0	3
	7:45 AM	1	0	0	0	0	0	0	1	0	0	1	0	3
	8:00 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
	8:15 AM	1	0	0	0	0	0	0	1	0	0	1	0	3
	8:30 AM	1	0	0	0	0	0	0	2	1	0	3	0	7
	8:45 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
	VOLUMES	3	0	3	0	0	0	0	13	1	0	11	1	32
	APPROACH %	50%	0%	50%	0%	0%	0%	0%	93%	7%	0%	92%	8%	
	APP/DEPART	6	/	1	0	/	1	14	/	16	12	/	14	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	1	0	3	0	0	0	0	8	0	0	5	1	18
	APPROACH %	25%	0%	75%	0%	0%	0%	0%	100%	0%	0%	83%	17%	
	PEAK HR FACTOR		0.500			0.000			0.667			0.750		0.643
	APP/DEPART	4	/	1	0	/	0	8	/	11	6	/	6	0
PM	4:00 PM	0	0	0	0	0	0	0	1	0	0	2	0	3
	4:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	4:30 PM	0	0	0	0	0	0	0	1	1	0	2	0	4
	4:45 PM	0	0	0	0	0	0	0	1	1	0	1	0	3
	5:00 PM	0	0	0	0	0	0	0	2	0	0	1	0	3
	5:15 PM	0	0	0	0	0	0	0	1	0	0	1	0	2
	5:30 PM	0	0	0	0	0	0	0	2	0	0	1	0	3
	5:45 PM	0	0	0	0	0	0	0	1	0	0	2	0	3
	VOLUMES	0	0	0	0	0	0	0	10	2	0	10	0	22
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	83%	17%	0%	100%	0%	
	APP/DEPART	0	/	0	0	/	2	12	/	10	10	/	10	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	0	0	0	0	0	0	0	5	2	0	5	0	12
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	71%	29%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.000			0.875			0.625		0.750
	APP/DEPART	0	/	0	0	/	2	7	/	5	5	/	5	0

U-TURNS					
	NB	SB	EB	WB	TTL
	0	0	0	0	
AM	0	0	0	0	0
PM	0	0	0	0	0

RTOR				
	NRR	SRR	ERR	WRR
	0	X	X	X
AM	2	0	0	0
	2	0	0	0
PM	0	0	0	0
	0	0	0	0



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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Arrow Route
Weather: Clear

File Name : 02_RNC_Etiwanda_Arrow AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

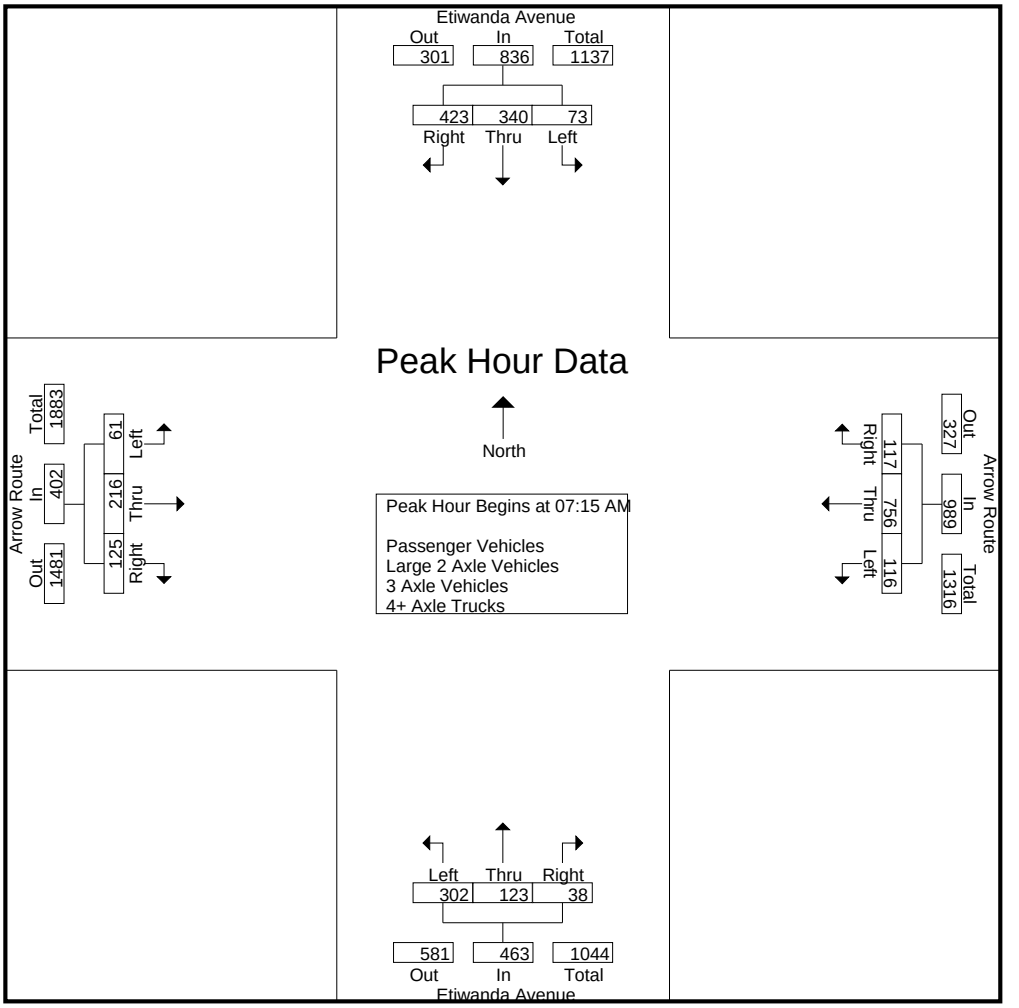
	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	20	94	64	178	30	131	20	181	52	28	5	85	18	43	24	85	529
07:15 AM	17	72	82	171	34	190	30	254	66	36	8	110	20	49	40	109	644
07:30 AM	15	100	99	214	19	184	20	223	97	33	11	141	13	64	30	107	685
07:45 AM	22	84	142	248	33	236	44	313	63	28	6	97	17	48	26	91	749
Total	74	350	387	811	116	741	114	971	278	125	30	433	68	204	120	392	2607
08:00 AM	19	84	100	203	30	146	23	199	76	26	13	115	11	55	29	95	612
08:15 AM	15	60	83	158	27	120	13	160	51	31	11	93	11	45	20	76	487
08:30 AM	23	43	55	121	14	103	18	135	45	22	6	73	14	26	23	63	392
08:45 AM	10	44	51	105	16	97	23	136	45	35	10	90	24	46	28	98	429
Total	67	231	289	587	87	466	77	630	217	114	40	371	60	172	100	332	1920
Grand Total	141	581	676	1398	203	1207	191	1601	495	239	70	804	128	376	220	724	4527
Apprch %	10.1	41.6	48.4		12.7	75.4	11.9		61.6	29.7	8.7		17.7	51.9	30.4		
Total %	3.1	12.8	14.9	30.9	4.5	26.7	4.2	35.4	10.9	5.3	1.5	17.8	2.8	8.3	4.9	16	
Passenger Vehicles	133	532	645	1310	175	1169	175	1519	439	198	63	700	114	354	170	638	4167
% Passenger Vehicles	94.3	91.6	95.4	93.7	86.2	96.9	91.6	94.9	88.7	82.8	90	87.1	89.1	94.1	77.3	88.1	92
Large 2 Axle Vehicles	4	8	5	17	13	19	4	36	12	9	2	23	2	15	7	24	100
% Large 2 Axle Vehicles	2.8	1.4	0.7	1.2	6.4	1.6	2.1	2.2	2.4	3.8	2.9	2.9	1.6	4	3.2	3.3	2.2
3 Axle Vehicles	4	12	3	19	4	4	5	13	12	16	1	29	2	3	14	19	80
% 3 Axle Vehicles	2.8	2.1	0.4	1.4	2	0.3	2.6	0.8	2.4	6.7	1.4	3.6	1.6	0.8	6.4	2.6	1.8
4+ Axle Trucks	0	29	23	52	11	15	7	33	32	16	4	52	10	4	29	43	180
% 4+ Axle Trucks	0	5	3.4	3.7	5.4	1.2	3.7	2.1	6.5	6.7	5.7	6.5	7.8	1.1	13.2	5.9	4

	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	17	72	82	171	**34**	190	30	254	66	**36**	8	110	**20**	49	**40**	**109**	644
07:30 AM	15	**100**	99	214	19	184	20	223	**97**	33	11	**141**	13	**64**	30	107	685
07:45 AM	**22**	84	**142**	**248**	33	**236**	**44**	**313**	63	28	6	97	17	48	26	91	**749**
08:00 AM	19	84	100	203	30	146	23	199	76	26	**13**	115	11	55	29	95	612
Total Volume	73	340	423	836	116	756	117	989	302	123	38	463	61	216	125	402	2690
% App. Total	8.7	40.7	50.6		11.7	76.4	11.8		65.2	26.6	8.2		15.2	53.7	31.1		
PHF	.830	.850	.745	.843	.853	.801	.665	.790	.778	.854	.731	.821	.763	.844	.781	.922	.898

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
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File Name : 02_RNC_Etiwanda_Arrow AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	17	72	82	171	**34**	190	30	254	66	**36**	8	110	**20**	49	**40**	**109**
+15 mins.	15	**100**	99	214	19	184	20	223	**97**	33	11	**141**	13	**64**	30	107
+30 mins.	**22**	84	**142**	**248**	33	**236**	**44**	**313**	63	28	6	97	17	48	26	91
+45 mins.	19	84	100	203	30	146	23	199	76	26	**13**	115	11	55	29	95
Total Volume	73	340	423	836	116	756	117	989	302	123	38	463	61	216	125	402
% App. Total	8.7	40.7	50.6		11.7	76.4	11.8		65.2	26.6	8.2		15.2	53.7	31.1	
PHF	.830	.850	.745	.843	.853	.801	.665	.790	.778	.854	.731	.821	.763	.844	.781	.922

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City of Rancho Cucamonga
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File Name : 02_RNC_Etiwanda_Arrow AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles

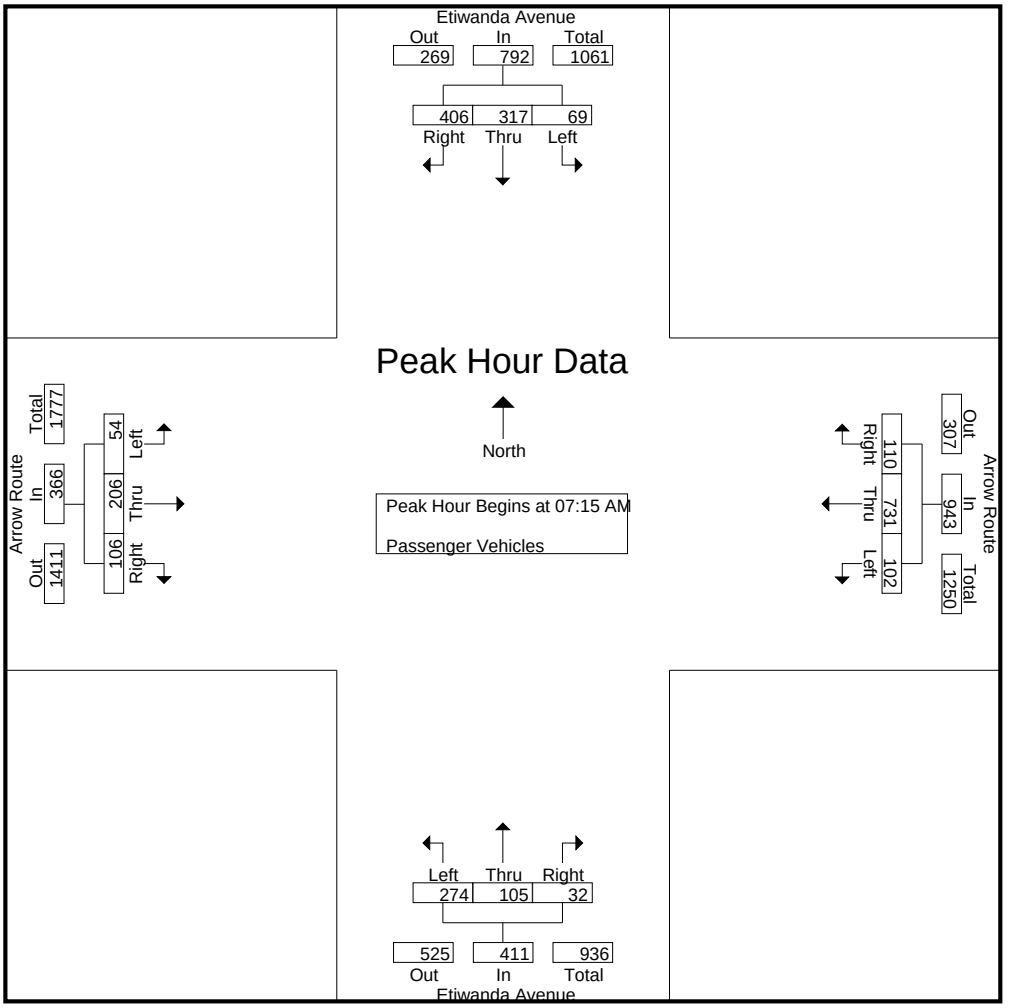
	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	20	90	63	173	23	127	16	166	43	25	5	73	14	38	20	72	484
07:15 AM	16	66	77	159	29	182	29	240	59	29	6	94	15	48	36	99	592
07:30 AM	14	97	96	207	17	181	17	215	91	28	11	130	13	62	27	102	654
07:45 AM	20	76	139	235	30	229	41	300	58	24	5	87	15	46	23	84	706
Total	70	329	375	774	99	719	103	921	251	106	27	384	57	194	106	357	2436
08:00 AM	19	78	94	191	26	139	23	188	66	24	10	100	11	50	20	81	560
08:15 AM	14	50	77	141	24	118	12	154	46	23	11	80	10	41	14	65	440
08:30 AM	21	39	52	112	12	99	17	128	39	17	6	62	14	24	13	51	353
08:45 AM	9	36	47	92	14	94	20	128	37	28	9	74	22	45	17	84	378
Total	63	203	270	536	76	450	72	598	188	92	36	316	57	160	64	281	1731
Grand Total	133	532	645	1310	175	1169	175	1519	439	198	63	700	114	354	170	638	4167
Apprch %	10.2	40.6	49.2		11.5	77	11.5		62.7	28.3	9		17.9	55.5	26.6		
Total %	3.2	12.8	15.5	31.4	4.2	28.1	4.2	36.5	10.5	4.8	1.5	16.8	2.7	8.5	4.1	15.3	

	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	16	66	77	159	29	182	29	240	59	**29**	6	94	**15**	48	**36**	99	592
07:30 AM	14	**97**	96	207	17	181	17	215	**91**	28	**11**	**130**	13	**62**	27	**102**	654
07:45 AM	**20**	76	**139**	**235**	**30**	**229**	**41**	**300**	58	24	5	87	15	46	23	84	**706**
08:00 AM	19	78	94	191	26	139	23	188	66	24	10	100	11	50	20	81	560
Total Volume	69	317	406	792	102	731	110	943	274	105	32	411	54	206	106	366	2512
% App. Total	8.7	40	51.3		10.8	77.5	11.7		66.7	25.5	7.8		14.8	56.3	29		
PHF	.863	.817	.730	.843	.850	.798	.671	.786	.753	.905	.727	.790	.900	.831	.736	.897	.890

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Arrow Route
Weather: Clear

File Name : 02_RNC_Etiwanda_Arrow AM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	16	66	77	159	29	182	29	240	59	**29**	6	94	**15**	48	**36**	99
+15 mins.	14	**97**	96	207	17	181	17	215	**91**	28	**11**	**130**	13	**62**	27	**102**
+30 mins.	**20**	76	**139**	**235**	**30**	**229**	**41**	**300**	58	24	5	87	15	46	23	84
+45 mins.	19	78	94	191	26	139	23	188	66	24	10	100	11	50	20	81
Total Volume	69	317	406	792	102	731	110	943	274	105	32	411	54	206	106	366
% App. Total	8.7	40	51.3		10.8	77.5	11.7		66.7	25.5	7.8		14.8	56.3	29	
PHF	.863	.817	.730	.843	.850	.798	.671	.786	.753	.905	.727	.790	.900	.831	.736	.897

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File Name : 02_RNC_Etiwanda_Arrow AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Large 2 Axle Vehicles

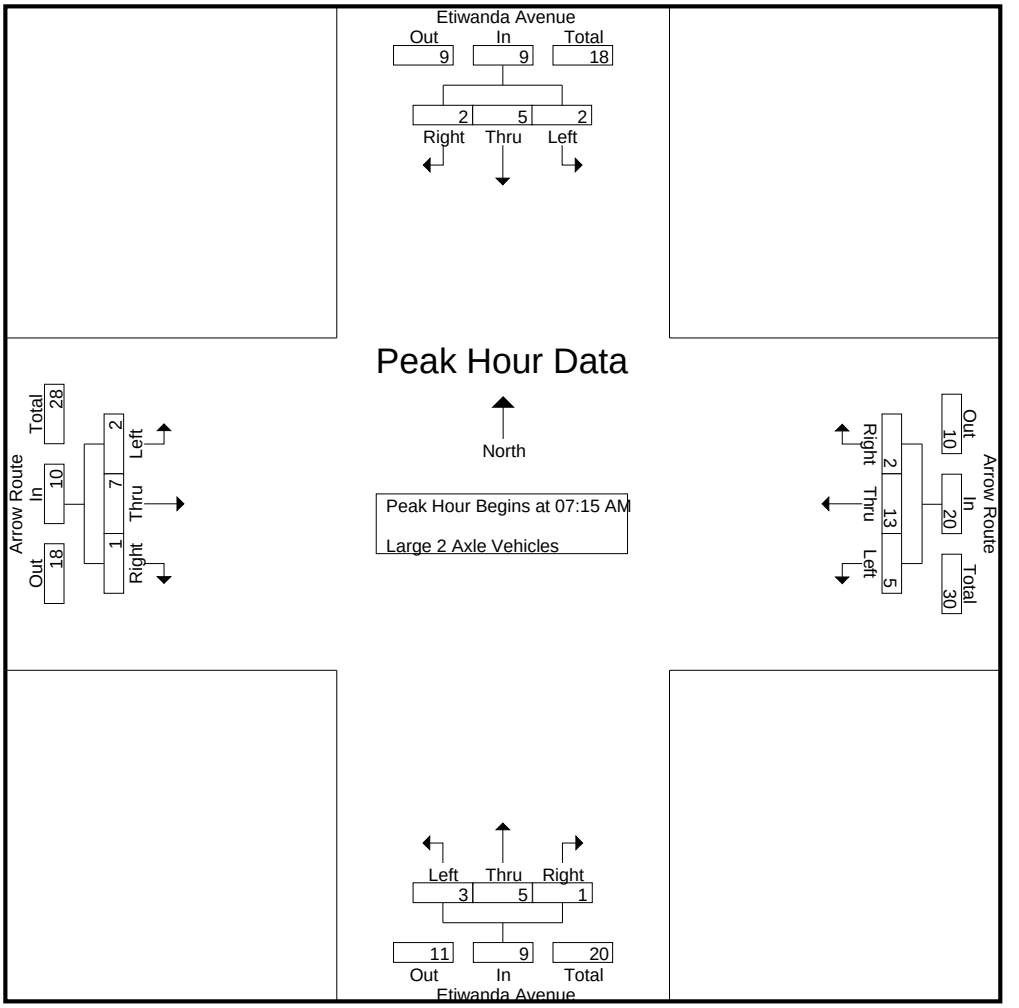
	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	1	1	6	3	0	9	1	1	0	2	0	4	0	4	16
07:15 AM	0	3	2	5	2	6	0	8	0	3	0	3	2	1	0	3	19
07:30 AM	1	2	0	3	0	1	1	2	0	0	0	0	0	1	1	2	7
07:45 AM	1	0	0	1	1	4	1	6	1	2	0	3	0	2	0	2	12
Total	2	5	3	10	9	14	2	25	2	6	0	8	2	8	1	11	54
08:00 AM	0	0	0	0	2	2	0	4	2	0	1	3	0	3	0	3	10
08:15 AM	1	1	0	2	1	1	0	2	2	1	0	3	0	2	1	3	10
08:30 AM	0	0	1	1	0	1	1	2	3	2	0	5	0	1	1	2	10
08:45 AM	1	2	1	4	1	1	1	3	3	0	1	4	0	1	4	5	16
Total	2	3	2	7	4	5	2	11	10	3	2	15	0	7	6	13	46
Grand Total	4	8	5	17	13	19	4	36	12	9	2	23	2	15	7	24	100
Apprch %	23.5	47.1	29.4		36.1	52.8	11.1		52.2	39.1	8.7		8.3	62.5	29.2		
Total %	4	8	5	17	13	19	4	36	12	9	2	23	2	15	7	24	

	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	**3**	**2**	**5**	**2**	**6**	0	**8**	0	**3**	0	**3**	**2**	1	0	**3**	**19**
07:30 AM	**1**	2	0	3	0	1	**1**	2	0	0	0	0	0	1	**1**	2	7
07:45 AM	1	0	0	1	1	4	1	6	1	2	0	3	0	2	0	2	12
08:00 AM	0	0	0	0	2	2	0	4	**2**	0	**1**	3	0	**3**	0	3	10
Total Volume	2	5	2	9	5	13	2	20	3	5	1	9	2	7	1	10	48
% App. Total	22.2	55.6	22.2		25	65	10		33.3	55.6	11.1		20	70	10		
PHF	.500	.417	.250	.450	.625	.542	.500	.625	.375	.417	.250	.750	.250	.583	.250	.833	.632

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File Name : 02_RNC_Etiwanda_Arrow AM
Site Code : 22520079
Start Date : 2/5/2020
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Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	**3**	**2**	**5**	**2**	**6**	0	**8**	0	**3**	0	**3**	**2**	1	0	**3**
+15 mins.	**1**	2	0	3	0	1	**1**	2	0	0	0	0	0	1	**1**	2
+30 mins.	1	0	0	1	1	4	1	6	1	2	0	3	0	2	0	2
+45 mins.	0	0	0	0	2	2	0	4	**2**	0	**1**	3	0	**3**	0	3
Total Volume	2	5	2	9	5	13	2	20	3	5	1	9	2	7	1	10
% App. Total	22.2	55.6	22.2		25	65	10		33.3	55.6	11.1		20	70	10	
PHF	.500	.417	.250	.450	.625	.542	.500	.625	.375	.417	.250	.750	.250	.583	.250	.833

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City of Rancho Cucamonga
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File Name : 02_RNC_Etiwanda_Arrow AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 3 Axle Vehicles

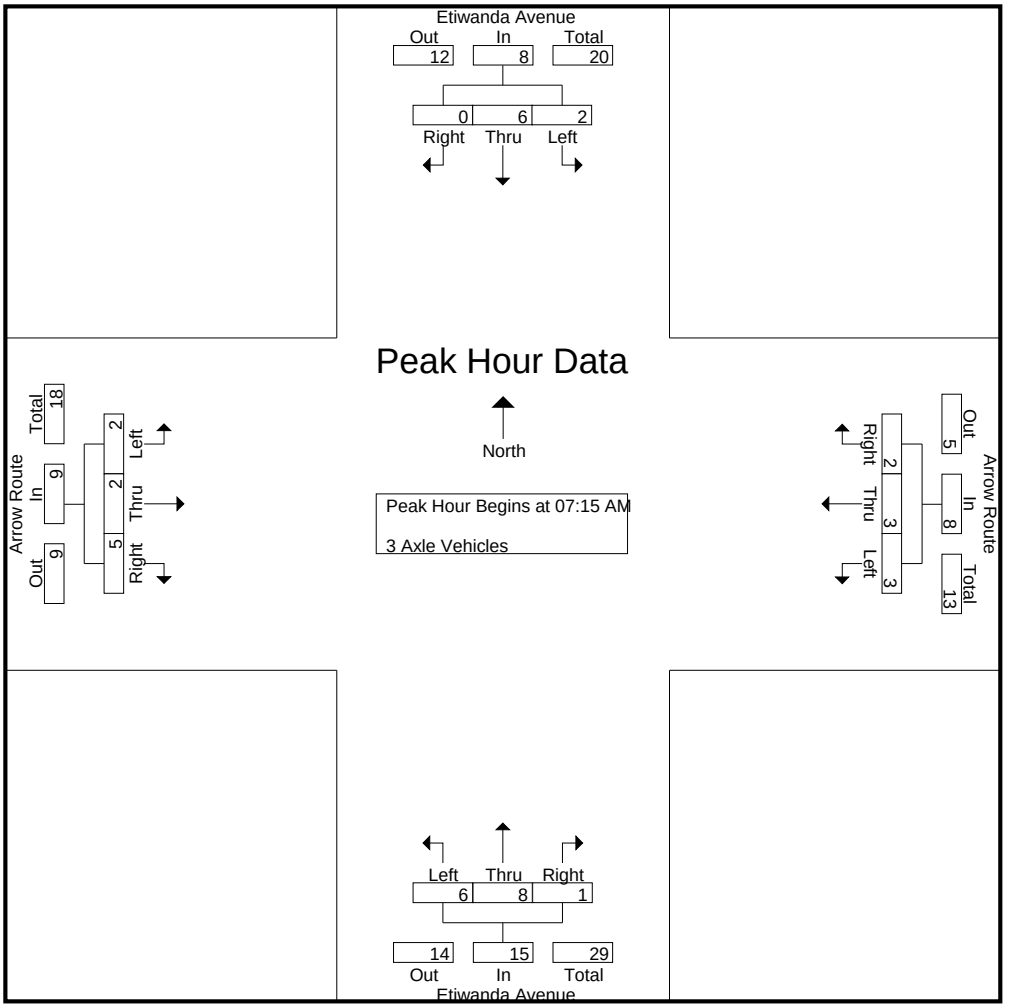
	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	4	0	4	0	0	0	0	2	1	0	3	0	0	2	2	9
07:15 AM	1	1	0	2	0	0	0	0	1	4	0	5	2	0	1	3	10
07:30 AM	0	0	0	0	1	1	0	2	2	2	0	4	0	0	1	1	7
07:45 AM	1	2	0	3	1	1	2	4	1	1	0	2	0	0	0	0	9
Total	2	7	0	9	2	2	2	6	6	8	0	14	2	0	4	6	35
08:00 AM	0	3	0	3	1	1	0	2	2	1	1	4	0	2	3	5	14
08:15 AM	0	1	2	3	1	0	1	2	0	3	0	3	0	0	2	2	10
08:30 AM	2	0	0	2	0	1	0	1	2	2	0	4	0	1	2	3	10
08:45 AM	0	1	1	2	0	0	2	2	2	2	0	4	0	0	3	3	11
Total	2	5	3	10	2	2	3	7	6	8	1	15	0	3	10	13	45
Grand Total	4	12	3	19	4	4	5	13	12	16	1	29	2	3	14	19	80
Apprch %	21.1	63.2	15.8		30.8	30.8	38.5		41.4	55.2	3.4		10.5	15.8	73.7		
Total %	5	15	3.8	23.8	5	5	6.2	16.2	15	20	1.2	36.2	2.5	3.8	17.5	23.8	

	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	**1**	1	0	2	0	0	0	0	1	**4**	0	**5**	**2**	0	1	3	10
07:30 AM	0	0	0	0	**1**	**1**	0	2	**2**	2	0	4	0	0	1	1	7
07:45 AM	1	2	0	**3**	1	1	**2**	**4**	1	1	0	2	0	0	0	0	9
08:00 AM	0	**3**	0	3	1	1	0	2	2	1	**1**	4	0	**2**	**3**	**5**	**14**
Total Volume	2	6	0	8	3	3	2	8	6	8	1	15	2	2	5	9	40
% App. Total	25	75	0		37.5	37.5	25		40	53.3	6.7		22.2	22.2	55.6		
PHF	.500	.500	.000	.667	.750	.750	.250	.500	.750	.500	.250	.750	.250	.250	.417	.450	.714

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Arrow Route
Weather: Clear

File Name : 02_RNC_Etiwanda_Arrow AM
Site Code : 22520079
Start Date : 2/5/2020
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Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	**1**	1	0	2	0	0	0	0	1	**4**	0	**5**	**2**	0	1	3
+15 mins.	0	0	0	0	**1**	**1**	0	2	**2**	2	0	4	0	0	1	1
+30 mins.	1	2	0	**3**	1	1	**2**	**4**	1	1	0	2	0	0	0	0
+45 mins.	0	**3**	0	3	1	1	0	2	2	1	**1**	4	0	**2**	**3**	**5**
Total Volume	2	6	0	8	3	3	2	8	6	8	1	15	2	2	5	9
% App. Total	25	75	0		37.5	37.5	25		40	53.3	6.7		22.2	22.2	55.6	
PHF	.500	.500	.000	.667	.750	.750	.250	.500	.750	.500	.250	.750	.250	.250	.417	.450

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File Name : 02_RNC_Etiwanda_Arrow AM
Site Code : 22520079
Start Date : 2/5/2020
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Groups Printed- 4+ Axle Trucks

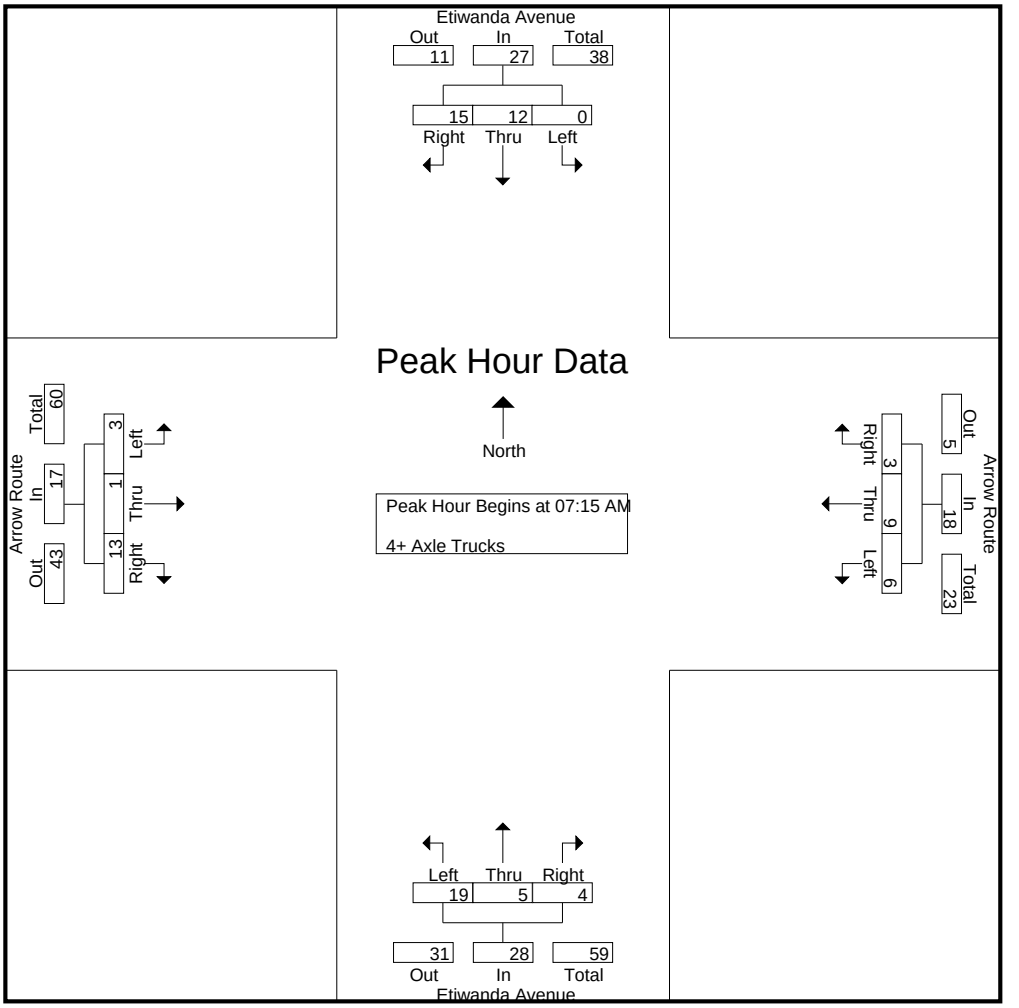
	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	1	1	4	6	6	1	0	7	4	1	2	7	20
07:15 AM	0	2	3	5	3	2	1	6	6	0	2	8	1	0	3	4	23
07:30 AM	0	1	3	4	1	1	2	4	4	3	0	7	0	1	1	2	17
07:45 AM	0	6	3	9	1	2	0	3	3	1	1	5	2	0	3	5	22
Total	0	9	9	18	6	6	7	19	19	5	3	27	7	2	9	18	82
08:00 AM	0	3	6	9	1	4	0	5	6	1	1	8	0	0	6	6	28
08:15 AM	0	8	4	12	1	1	0	2	3	4	0	7	1	2	3	6	27
08:30 AM	0	4	2	6	2	2	0	4	1	1	0	2	0	0	7	7	19
08:45 AM	0	5	2	7	1	2	0	3	3	5	0	8	2	0	4	6	24
Total	0	20	14	34	5	9	0	14	13	11	1	25	3	2	20	25	98
Grand Total	0	29	23	52	11	15	7	33	32	16	4	52	10	4	29	43	180
Apprch %	0	55.8	44.2		33.3	45.5	21.2		61.5	30.8	7.7		23.3	9.3	67.4		
Total %	0	16.1	12.8	28.9	6.1	8.3	3.9	18.3	17.8	8.9	2.2	28.9	5.6	2.2	16.1	23.9	

	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	2	3	5	**3**	2	1	**6**	**6**	0	**2**	**8**	1	0	3	4	23
07:30 AM	0	1	3	4	1	1	**2**	4	4	**3**	0	7	0	**1**	1	2	17
07:45 AM	0	**6**	3	**9**	1	2	0	3	3	1	1	5	**2**	0	3	5	22
08:00 AM	0	3	**6**	9	1	**4**	0	5	6	1	1	8	0	0	**6**	**6**	**28**
Total Volume	0	12	15	27	6	9	3	18	19	5	4	28	3	1	13	17	90
% App. Total	0	44.4	55.6		33.3	50	16.7		67.9	17.9	14.3		17.6	5.9	76.5		
PHF	.000	.500	.625	.750	.500	.563	.375	.750	.792	.417	.500	.875	.375	.250	.542	.708	.804

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Arrow Route
Weather: Clear

File Name : 02_RNC_Etiwanda_Arrow AM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	2	3	5	**3**	2	1	**6**	**6**	0	**2**	**8**	1	0	3	4
+15 mins.	0	1	3	4	1	1	**2**	4	4	**3**	0	7	0	**1**	1	2
+30 mins.	0	**6**	3	**9**	1	2	0	3	3	1	1	5	**2**	0	3	5
+45 mins.	0	3	**6**	9	1	**4**	0	5	6	1	1	8	0	0	**6**	**6**
Total Volume	0	12	15	27	6	9	3	18	19	5	4	28	3	1	13	17
% App. Total	0	44.4	55.6		33.3	50	16.7		67.9	17.9	14.3		17.6	5.9	76.5	
PHF	.000	.500	.625	.750	.500	.563	.375	.750	.792	.417	.500	.875	.375	.250	.542	.708

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City of Rancho Cucamonga
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File Name : 02_RNC_Etiwanda_Arrow PM
Site Code : 22520079
Start Date : 2/5/2020
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

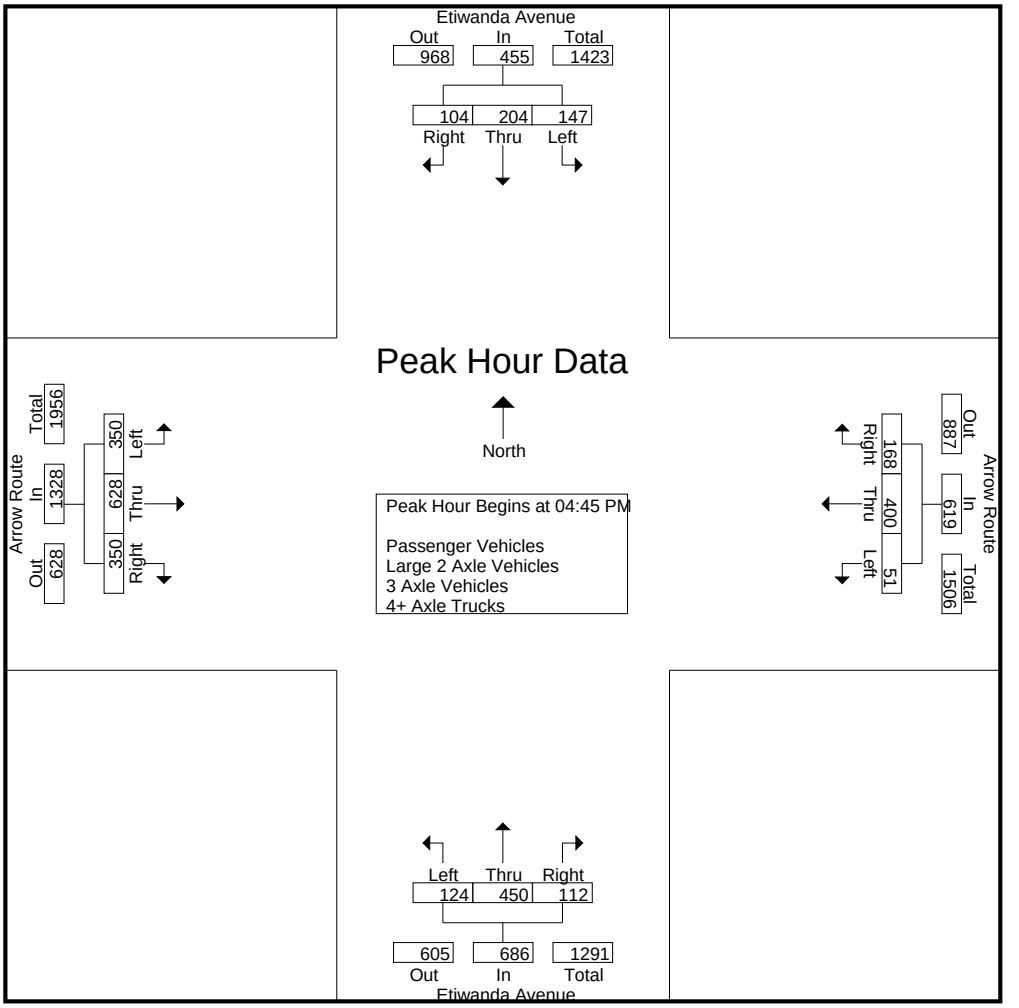
	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	34	40	26	100	14	92	39	145	26	94	30	150	72	161	83	316	711
04:15 PM	33	56	31	120	15	89	31	135	47	112	39	198	66	132	69	267	720
04:30 PM	24	45	21	90	15	85	41	141	50	110	21	181	89	145	83	317	729
04:45 PM	28	62	29	119	10	96	47	153	35	111	21	167	91	156	74	321	760
Total	119	203	107	429	54	362	158	574	158	427	111	696	318	594	309	1221	2920
05:00 PM	39	46	24	109	16	103	49	168	25	110	34	169	77	161	96	334	780
05:15 PM	42	51	19	112	18	110	43	171	31	116	25	172	85	143	99	327	782
05:30 PM	38	45	32	115	7	91	29	127	33	113	32	178	97	168	81	346	766
05:45 PM	28	36	16	80	12	98	41	151	42	93	33	168	93	140	68	301	700
Total	147	178	91	416	53	402	162	617	131	432	124	687	352	612	344	1308	3028
Grand Total	266	381	198	845	107	764	320	1191	289	859	235	1383	670	1206	653	2529	5948
Apprch %	31.5	45.1	23.4		9	64.1	26.9		20.9	62.1	17		26.5	47.7	25.8		
Total %	4.5	6.4	3.3	14.2	1.8	12.8	5.4	20	4.9	14.4	4	23.3	11.3	20.3	11	42.5	
Passenger Vehicles	259	322	190	771	97	750	310	1157	261	833	225	1319	661	1186	569	2416	5663
% Passenger Vehicles	97.4	84.5	96	91.2	90.7	98.2	96.9	97.1	90.3	97	95.7	95.4	98.7	98.3	87.1	95.5	95.2
Large 2 Axle Vehicles	2	9	4	15	3	6	3	12	6	6	4	16	2	11	7	20	63
% Large 2 Axle Vehicles	0.8	2.4	2	1.8	2.8	0.8	0.9	1	2.1	0.7	1.7	1.2	0.3	0.9	1.1	0.8	1.1
3 Axle Vehicles	0	34	0	34	4	2	4	10	5	5	2	12	0	4	35	39	95
% 3 Axle Vehicles	0	8.9	0	4	3.7	0.3	1.2	0.8	1.7	0.6	0.9	0.9	0	0.3	5.4	1.5	1.6
4+ Axle Trucks	5	16	4	25	3	6	3	12	17	15	4	36	7	5	42	54	127
% 4+ Axle Trucks	1.9	4.2	2	3	2.8	0.8	0.9	1	5.9	1.7	1.7	2.6	1	0.4	6.4	2.1	2.1

	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	28	**62**	29	**119**	10	96	47	153	**35**	111	21	167	91	156	74	321	760
05:00 PM	39	46	24	109	16	103	**49**	168	25	110	**34**	169	77	161	96	334	780
05:15 PM	**42**	51	19	112	**18**	**110**	43	**171**	31	**116**	25	172	85	143	**99**	327	**782**
05:30 PM	38	45	**32**	115	7	91	29	127	33	113	32	**178**	**97**	**168**	81	**346**	766
Total Volume	147	204	104	455	51	400	168	619	124	450	112	686	350	628	350	1328	3088
% App. Total	32.3	44.8	22.9		8.2	64.6	27.1		18.1	65.6	16.3		26.4	47.3	26.4		
PHF	.875	.823	.813	.956	.708	.909	.857	.905	.886	.970	.824	.963	.902	.935	.884	.960	.987

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
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File Name : 02_RNC_Etiwanda_Arrow PM
Site Code : 22520079
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Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:30 PM				04:15 PM				04:45 PM			
+0 mins.	28	**62**	29	**119**	15	85	41	141	47	**112**	**39**	**198**	91	156	74	321
+15 mins.	39	46	24	109	10	96	47	153	**50**	110	21	181	77	161	96	334
+30 mins.	**42**	51	19	112	16	103	**49**	168	35	111	21	167	85	143	**99**	327
+45 mins.	38	45	**32**	115	**18**	**110**	43	**171**	25	110	34	169	**97**	**168**	81	**346**
Total Volume	147	204	104	455	59	394	180	633	157	443	115	715	350	628	350	1328
% App. Total	32.3	44.8	22.9		9.3	62.2	28.4		22	62	16.1		26.4	47.3	26.4	
PHF	.875	.823	.813	.956	.819	.895	.918	.925	.785	.989	.737	.903	.902	.935	.884	.960

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Groups Printed- Passenger Vehicles

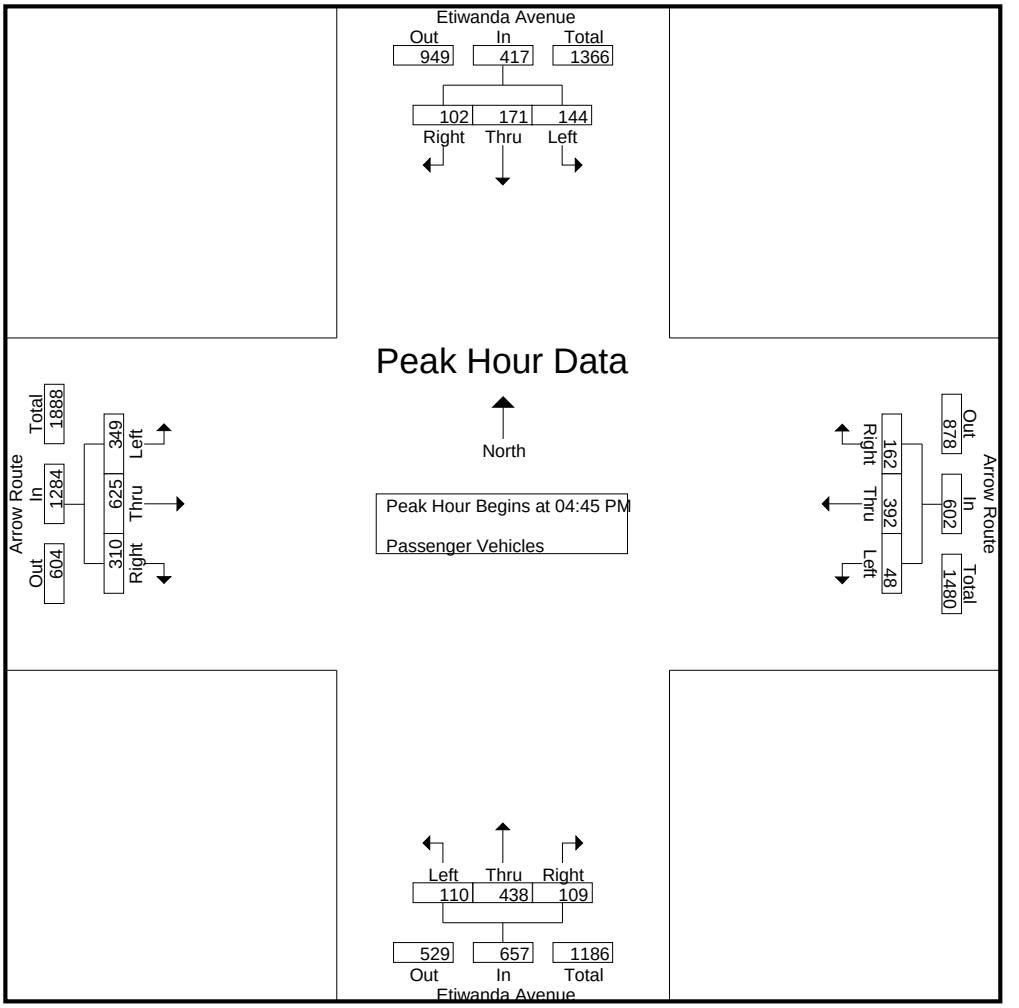
	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	32	36	23	91	13	90	38	141	24	91	25	140	68	159	76	303	675
04:15 PM	32	47	28	107	13	87	30	130	42	110	37	189	63	127	58	248	674
04:30 PM	24	37	21	82	13	83	39	135	49	105	21	175	89	140	65	294	686
04:45 PM	27	49	29	105	10	94	45	149	34	110	20	164	90	155	61	306	724
Total	115	169	101	385	49	354	152	555	149	416	103	668	310	581	260	1151	2759
05:00 PM	39	36	23	98	14	101	49	164	22	108	33	163	77	161	84	322	747
05:15 PM	41	45	18	104	17	109	41	167	25	110	24	159	85	142	91	318	748
05:30 PM	37	41	32	110	7	88	27	122	29	110	32	171	97	167	74	338	741
05:45 PM	27	31	16	74	10	98	41	149	36	89	33	158	92	135	60	287	668
Total	144	153	89	386	48	396	158	602	112	417	122	651	351	605	309	1265	2904
Grand Total	259	322	190	771	97	750	310	1157	261	833	225	1319	661	1186	569	2416	5663
Apprch %	33.6	41.8	24.6		8.4	64.8	26.8		19.8	63.2	17.1		27.4	49.1	23.6		
Total %	4.6	5.7	3.4	13.6	1.7	13.2	5.5	20.4	4.6	14.7	4	23.3	11.7	20.9	10	42.7	

	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	27	**49**	29	105	10	94	45	149	**34**	**110**	20	164	90	155	61	306	724
05:00 PM	39	36	23	98	14	101	**49**	164	22	108	**33**	163	77	161	84	322	747
05:15 PM	**41**	45	18	104	**17**	**109**	41	**167**	25	110	24	159	85	142	**91**	318	**748**
05:30 PM	37	41	**32**	**110**	7	88	27	122	29	110	32	**171**	**97**	**167**	74	**338**	741
Total Volume	144	171	102	417	48	392	162	602	110	438	109	657	349	625	310	1284	2960
% App. Total	34.5	41	24.5		8	65.1	26.9		16.7	66.7	16.6		27.2	48.7	24.1		
PHF	.878	.872	.797	.948	.706	.899	.827	.901	.809	.995	.826	.961	.899	.936	.852	.950	.989

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File Name : 02_RNC_Etiwanda_Arrow PM
Site Code : 22520079
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Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	27	**49**	29	105	10	94	45	149	**34**	**110**	20	164	90	155	61	306
+15 mins.	39	36	23	98	14	101	**49**	164	22	108	**33**	163	77	161	84	322
+30 mins.	**41**	45	18	104	**17**	**109**	41	**167**	25	110	24	159	85	142	**91**	318
+45 mins.	37	41	**32**	**110**	7	88	27	122	29	110	32	**171**	**97**	**167**	74	**338**
Total Volume	144	171	102	417	48	392	162	602	110	438	109	657	349	625	310	1284
% App. Total	34.5	41	24.5		8	65.1	26.9		16.7	66.7	16.6		27.2	48.7	24.1	
PHF	.878	.872	.797	.948	.706	.899	.827	.901	.809	.995	.826	.961	.899	.936	.852	.950

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Groups Printed- Large 2 Axle Vehicles

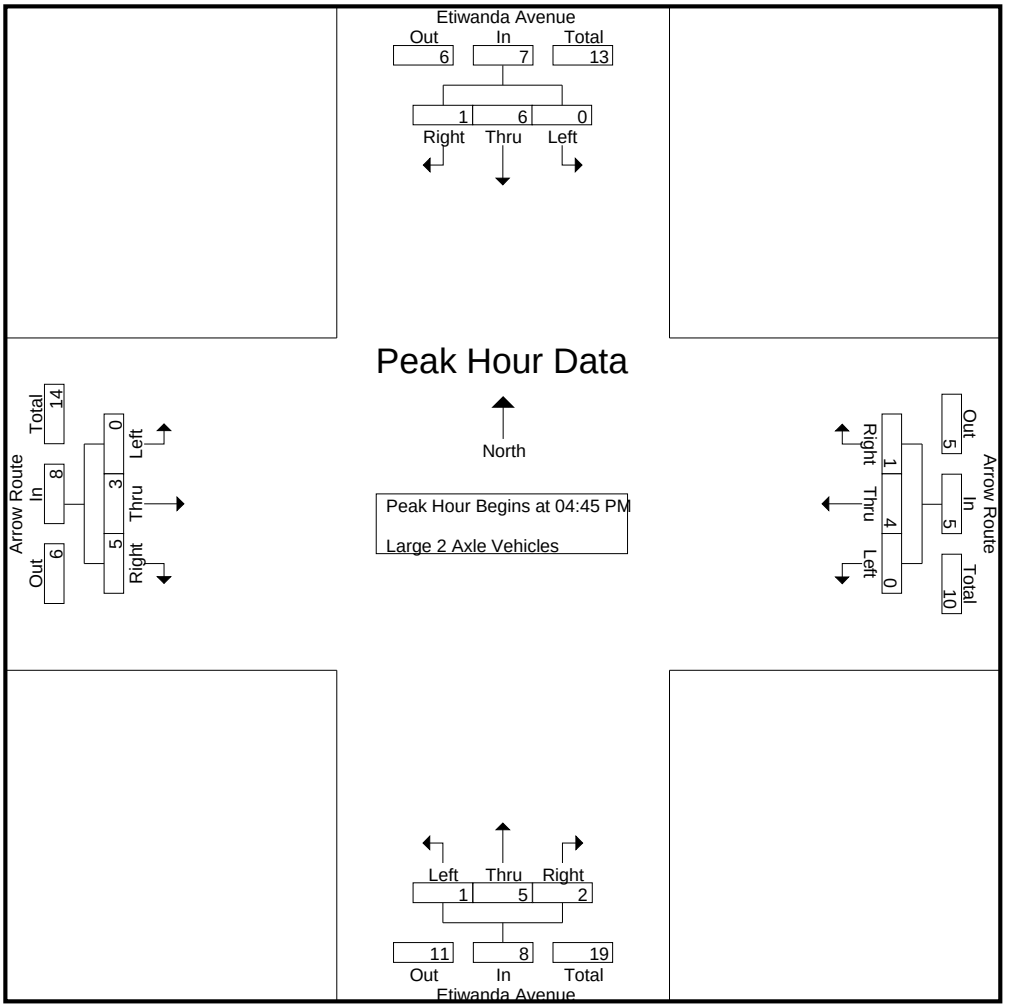
	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	0	1	2	0	1	1	2	0	0	1	1	1	1	0	2	7
04:15 PM	0	2	2	4	1	0	0	1	4	0	1	5	1	1	1	3	13
04:30 PM	0	1	0	1	1	1	1	3	0	1	0	1	0	1	1	2	7
04:45 PM	0	2	0	2	0	1	0	1	1	1	0	2	0	1	2	3	8
Total	1	5	3	9	2	3	2	7	5	2	2	9	2	4	4	10	35
05:00 PM	0	1	0	1	0	0	0	0	0	1	1	2	0	0	1	1	4
05:15 PM	0	1	1	2	0	0	0	0	0	3	1	4	0	1	1	2	8
05:30 PM	0	2	0	2	0	3	1	4	0	0	0	0	0	1	1	2	8
05:45 PM	1	0	0	1	1	0	0	1	1	0	0	1	0	5	0	5	8
Total	1	4	1	6	1	3	1	5	1	4	2	7	0	7	3	10	28
Grand Total	2	9	4	15	3	6	3	12	6	6	4	16	2	11	7	20	63
Apprch %	13.3	60	26.7		25	50	25		37.5	37.5	25		10	55	35		
Total %	3.2	14.3	6.3	23.8	4.8	9.5	4.8	19	9.5	9.5	6.3	25.4	3.2	17.5	11.1	31.7	

	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	**2**	0	**2**	0	1	0	1	**1**	1	0	2	0	**1**	**2**	**3**	**8**
05:00 PM	0	1	0	1	0	0	0	0	0	1	**1**	2	0	0	1	1	4
05:15 PM	0	1	**1**	2	0	0	0	0	0	**3**	1	**4**	0	1	1	2	8
05:30 PM	0	2	0	2	0	**3**	**1**	**4**	0	0	0	0	0	1	1	2	8
Total Volume	0	6	1	7	0	4	1	5	1	5	2	8	0	3	5	8	28
% App. Total	0	85.7	14.3		0	80	20		12.5	62.5	25		0	37.5	62.5		
PHF	.000	.750	.250	.875	.000	.333	.250	.313	.250	.417	.500	.500	.000	.750	.625	.667	.875

Counts Unlimited
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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Arrow Route
Weather: Clear

File Name : 02_RNC_Etiwanda_Arrow PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	**2**	0	**2**	0	1	0	1	**1**	1	0	2	0	**1**	**2**	**3**
+15 mins.	0	1	0	1	0	0	0	0	0	1	**1**	2	0	0	1	1
+30 mins.	0	1	**1**	2	0	0	0	0	0	**3**	1	**4**	0	1	1	2
+45 mins.	0	2	0	2	0	**3**	**1**	**4**	0	0	0	0	0	1	1	2
Total Volume	0	6	1	7	0	4	1	5	1	5	2	8	0	3	5	8
% App. Total	0	85.7	14.3		0	80	20		12.5	62.5	25		0	37.5	62.5	
PHF	.000	.750	.250	.875	.000	.333	.250	.313	.250	.417	.500	.500	.000	.750	.625	.667

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Arrow Route
Weather: Clear

File Name : 02_RNC_Etiwanda_Arrow PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 3 Axle Vehicles

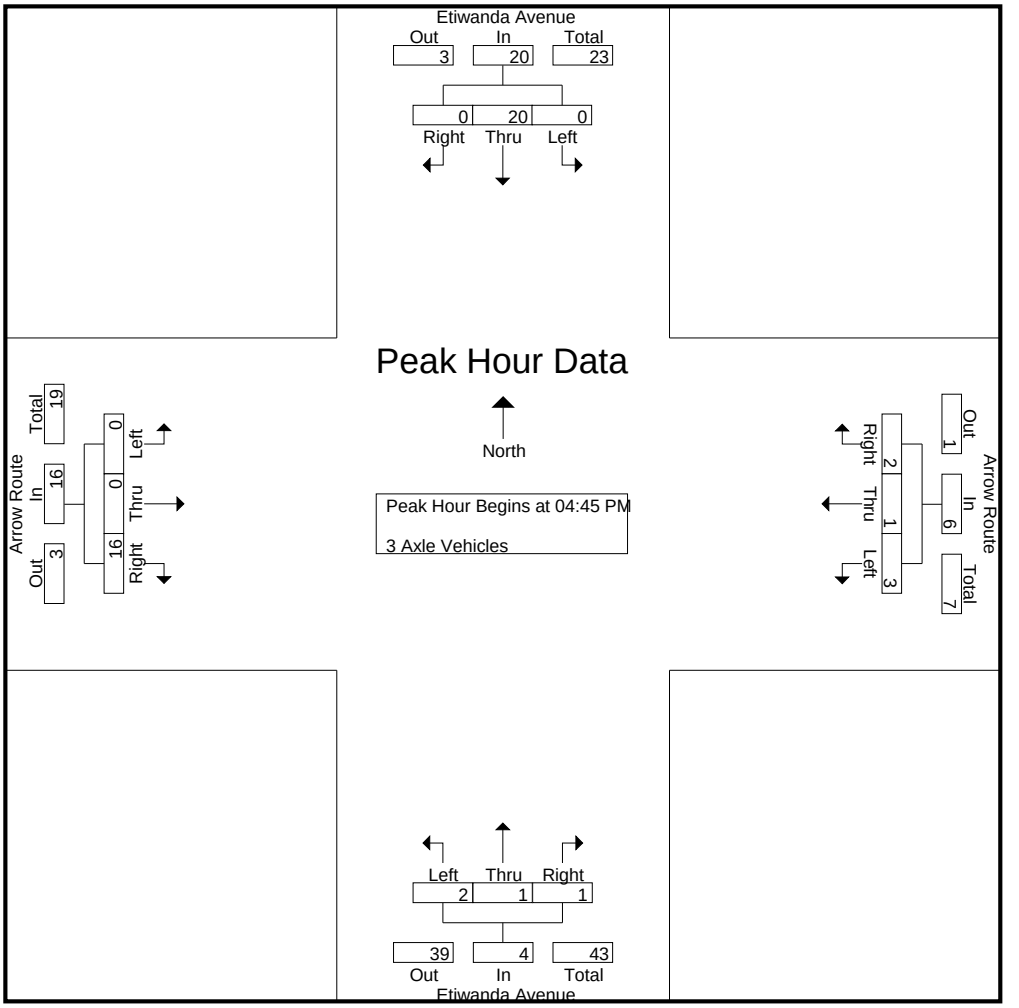
	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	1	5	6	7
04:15 PM	0	5	0	5	0	0	1	1	1	1	0	2	0	1	7	8	16
04:30 PM	0	6	0	6	1	1	1	3	1	2	0	3	0	2	4	6	18
04:45 PM	0	9	0	9	0	0	1	1	0	0	1	1	0	0	6	6	17
Total	0	20	0	20	1	1	3	5	2	3	2	7	0	4	22	26	58
05:00 PM	0	8	0	8	2	1	0	3	0	1	0	1	0	0	5	5	17
05:15 PM	0	2	0	2	1	0	1	2	2	0	0	2	0	0	3	3	9
05:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	2	3
05:45 PM	0	3	0	3	0	0	0	0	1	1	0	2	0	0	3	3	8
Total	0	14	0	14	3	1	1	5	3	2	0	5	0	0	13	13	37
Grand Total	0	34	0	34	4	2	4	10	5	5	2	12	0	4	35	39	95
Apprch %	0	100	0		40	20	40		41.7	41.7	16.7		0	10.3	89.7		
Total %	0	35.8	0	35.8	4.2	2.1	4.2	10.5	5.3	5.3	2.1	12.6	0	4.2	36.8	41.1	

	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	**9**	0	**9**	0	0	**1**	1	0	0	**1**	1	0	0	**6**	**6**	**17**
05:00 PM	0	8	0	8	**2**	**1**	0	**3**	0	**1**	0	1	0	0	5	5	17
05:15 PM	0	2	0	2	1	0	1	2	**2**	0	0	**2**	0	0	3	3	9
05:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	2	3
Total Volume	0	20	0	20	3	1	2	6	2	1	1	4	0	0	16	16	46
% App. Total	0	100	0		50	16.7	33.3		50	25	25		0	0	100		
PHF	.000	.556	.000	.556	.375	.250	.500	.500	.250	.250	.250	.500	.000	.000	.667	.667	.676

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Arrow Route
Weather: Clear

File Name : 02_RNC_Etiwanda_Arrow PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	**9**	0	**9**	0	0	**1**	1	0	0	**1**	1	0	0	**6**	**6**
+15 mins.	0	8	0	8	**2**	**1**	0	**3**	0	**1**	0	1	0	0	5	5
+30 mins.	0	2	0	2	1	0	1	2	**2**	0	0	**2**	0	0	3	3
+45 mins.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	2
Total Volume	0	20	0	20	3	1	2	6	2	1	1	4	0	0	16	16
% App. Total	0	100	0		50	16.7	33.3		50	25	25		0	0	100	
PHF	.000	.556	.000	.556	.375	.250	.500	.500	.250	.250	.250	.500	.000	.000	.667	.667

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Arrow Route
Weather: Clear

File Name : 02_RNC_Etiwanda_Arrow PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 4+ Axle Trucks

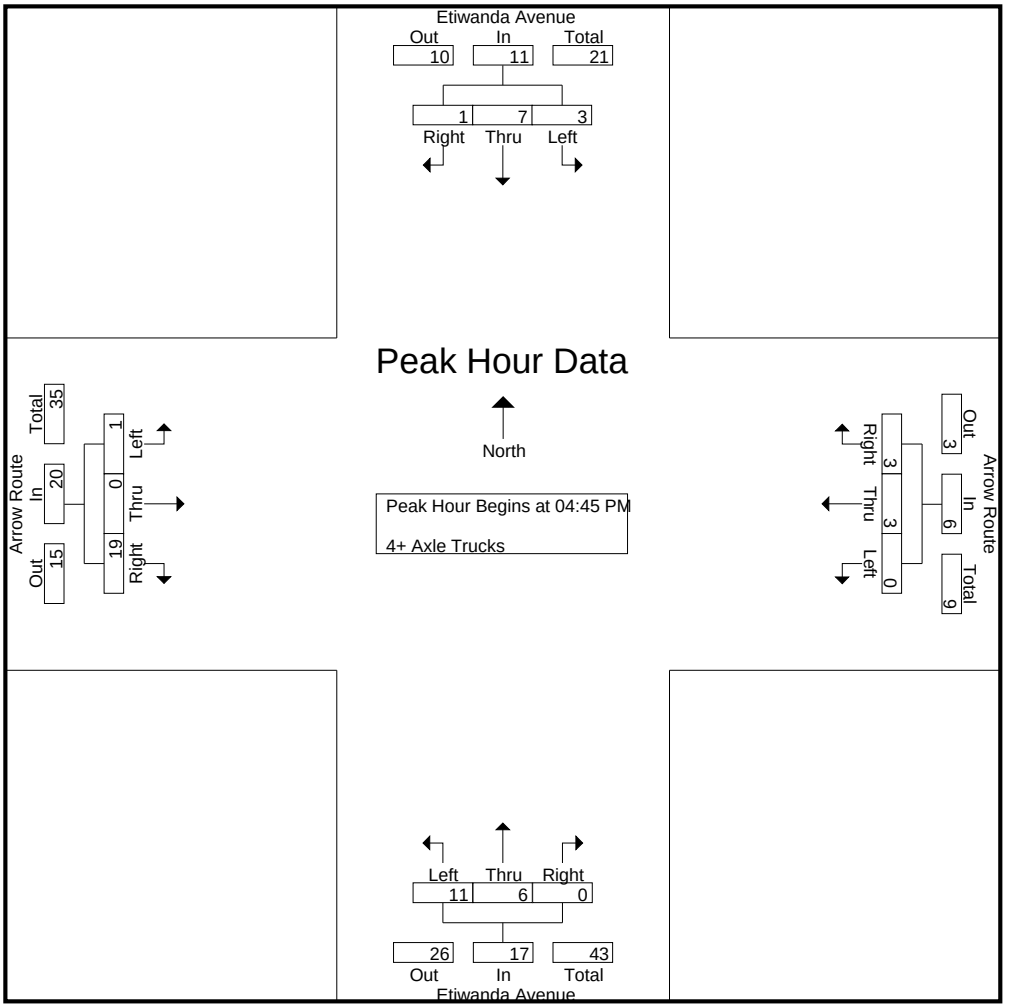
	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	4	2	7	1	1	0	2	2	3	3	8	3	0	2	5	22
04:15 PM	1	2	1	4	1	2	0	3	0	1	1	2	2	3	3	8	17
04:30 PM	0	1	0	1	0	0	0	0	0	2	0	2	0	2	13	15	18
04:45 PM	1	2	0	3	0	1	1	2	0	0	0	0	1	0	5	6	11
Total	3	9	3	15	2	4	1	7	2	6	4	12	6	5	23	34	68
05:00 PM	0	1	1	2	0	1	0	1	3	0	0	3	0	0	6	6	12
05:15 PM	1	3	0	4	0	1	1	2	4	3	0	7	0	0	4	4	17
05:30 PM	1	1	0	2	0	0	1	1	4	3	0	7	0	0	4	4	14
05:45 PM	0	2	0	2	1	0	0	1	4	3	0	7	1	0	5	6	16
Total	2	7	1	10	1	2	2	5	15	9	0	24	1	0	19	20	59
Grand Total	5	16	4	25	3	6	3	12	17	15	4	36	7	5	42	54	127
Apprch %	20	64	16		25	50	25		47.2	41.7	11.1		13	9.3	77.8		
Total %	3.9	12.6	3.1	19.7	2.4	4.7	2.4	9.4	13.4	11.8	3.1	28.3	5.5	3.9	33.1	42.5	

	Etiwanda Avenue Southbound				Arrow Route Westbound				Etiwanda Avenue Northbound				Arrow Route Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	**1**	2	0	3	0	**1**	**1**	**2**	0	0	0	0	**1**	0	5	**6**	11
05:00 PM	0	1	**1**	2	0	1	0	1	3	0	0	3	0	0	**6**	6	12
05:15 PM	1	**3**	0	**4**	0	1	1	2	**4**	**3**	0	**7**	0	0	4	4	**17**
05:30 PM	1	1	0	2	0	0	1	1	4	3	0	7	0	0	4	4	14
Total Volume	3	7	1	11	0	3	3	6	11	6	0	17	1	0	19	20	54
% App. Total	27.3	63.6	9.1		0	50	50		64.7	35.3	0		5	0	95		
PHF	.750	.583	.250	.688	.000	.750	.750	.750	.688	.500	.000	.607	.250	.000	.792	.833	.794

Counts Unlimited
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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Arrow Route
Weather: Clear

File Name : 02_RNC_Etiwanda_Arrow PM
Site Code : 22520079
Start Date : 2/5/2020
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Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	**1**	2	0	3	0	**1**	**1**	**2**	0	0	0	0	**1**	0	5	**6**
+15 mins.	0	1	**1**	2	0	1	0	1	3	0	0	3	0	0	**6**	6
+30 mins.	1	**3**	0	**4**	0	1	1	2	**4**	**3**	0	**7**	0	0	4	4
+45 mins.	1	1	0	2	0	0	1	1	4	3	0	7	0	0	4	4
Total Volume	3	7	1	11	0	3	3	6	11	6	0	17	1	0	19	20
% App. Total	27.3	63.6	9.1		0	50	50		64.7	35.3	0		5	0	95	
PHF	.750	.583	.250	.688	.000	.750	.750	.750	.688	.500	.000	.607	.250	.000	.792	.833

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

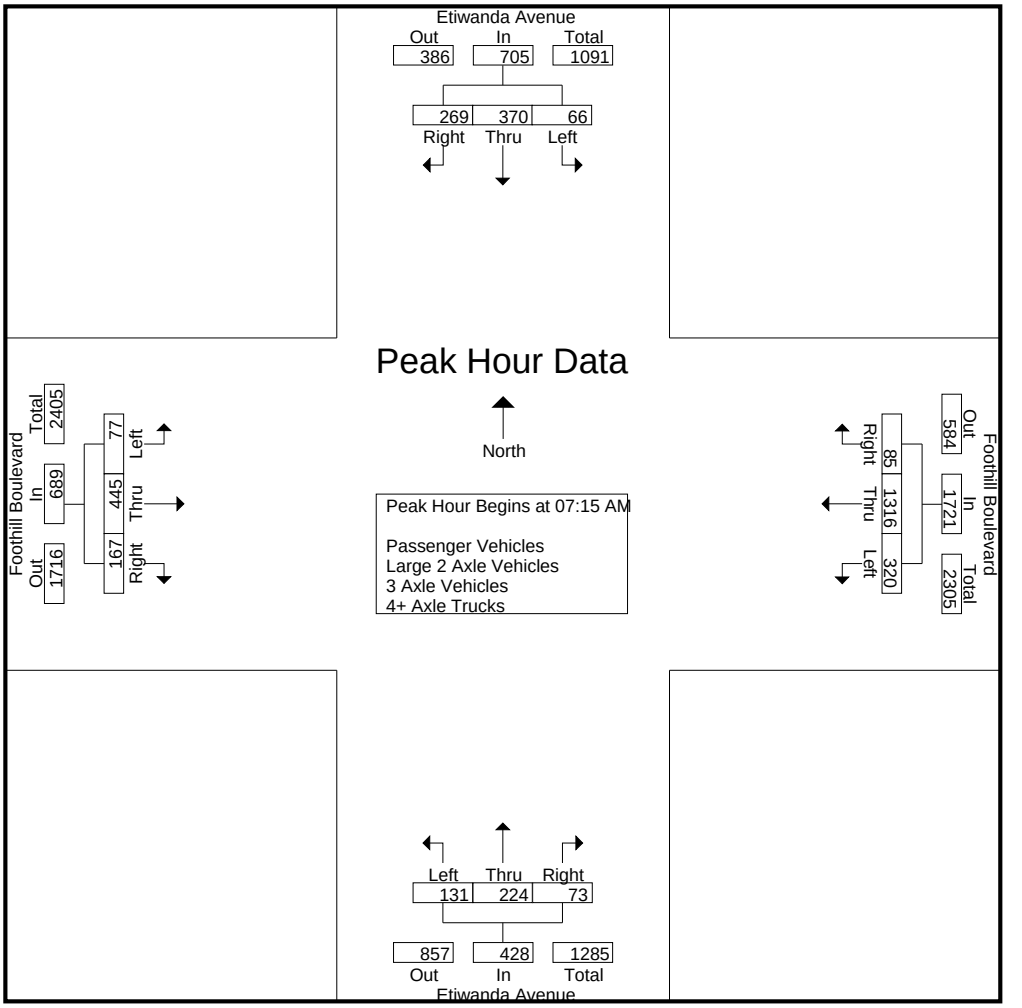
	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	7	85	59	151	49	278	16	343	32	36	15	83	16	101	36	153	730
07:15 AM	18	90	59	167	64	321	19	404	32	63	18	113	16	90	34	140	824
07:30 AM	5	76	55	136	80	344	22	446	31	55	22	108	14	118	35	167	857
07:45 AM	27	105	87	219	98	336	27	461	40	62	16	118	17	109	46	172	970
Total	57	356	260	673	291	1279	84	1654	135	216	71	422	63	418	151	632	3381
08:00 AM	16	99	68	183	78	315	17	410	28	44	17	89	30	128	52	210	892
08:15 AM	9	84	55	148	38	201	6	245	41	23	13	77	14	103	37	154	624
08:30 AM	6	50	48	104	40	199	10	249	32	16	19	67	24	128	39	191	611
08:45 AM	3	46	40	89	33	184	9	226	35	34	18	87	24	106	25	155	557
Total	34	279	211	524	189	899	42	1130	136	117	67	320	92	465	153	710	2684
Grand Total	91	635	471	1197	480	2178	126	2784	271	333	138	742	155	883	304	1342	6065
Apprch %	7.6	53	39.3		17.2	78.2	4.5		36.5	44.9	18.6		11.5	65.8	22.7		
Total %	1.5	10.5	7.8	19.7	7.9	35.9	2.1	45.9	4.5	5.5	2.3	12.2	2.6	14.6	5	22.1	
Passenger Vehicles	91	619	468	1178	466	2102	125	2693	215	319	134	668	150	816	243	1209	5748
% Passenger Vehicles	100	97.5	99.4	98.4	97.1	96.5	99.2	96.7	79.3	95.8	97.1	90	96.8	92.4	79.9	90.1	94.8
Large 2 Axle Vehicles	0	8	2	10	5	44	0	49	7	11	1	19	5	33	7	45	123
% Large 2 Axle Vehicles	0	1.3	0.4	0.8	1	2	0	1.8	2.6	3.3	0.7	2.6	3.2	3.7	2.3	3.4	2
3 Axle Vehicles	0	4	1	5	3	6	1	10	16	3	3	22	0	6	11	17	54
% 3 Axle Vehicles	0	0.6	0.2	0.4	0.6	0.3	0.8	0.4	5.9	0.9	2.2	3	0	0.7	3.6	1.3	0.9
4+ Axle Trucks	0	4	0	4	6	26	0	32	33	0	0	33	0	28	43	71	140
% 4+ Axle Trucks	0	0.6	0	0.3	1.2	1.2	0	1.1	12.2	0	0	4.4	0	3.2	14.1	5.3	2.3

	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	18	90	59	167	64	321	19	404	32	**63**	18	113	16	90	34	140	824
07:30 AM	5	76	55	136	80	**344**	22	446	31	55	**22**	108	14	118	35	167	857
07:45 AM	**27**	**105**	**87**	**219**	**98**	336	**27**	**461**	**40**	62	16	**118**	17	109	46	172	**970**
08:00 AM	16	99	68	183	78	315	17	410	28	44	17	89	**30**	**128**	**52**	**210**	892
Total Volume	66	370	269	705	320	1316	85	1721	131	224	73	428	77	445	167	689	3543
% App. Total	9.4	52.5	38.2		18.6	76.5	4.9		30.6	52.3	17.1		11.2	64.6	24.2		
PHF	.611	.881	.773	.805	.816	.956	.787	.933	.819	.889	.830	.907	.642	.869	.803	.820	.913

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill AM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:45 AM			
+0 mins.	18	90	59	167	64	321	19	404	32	**63**	18	113	17	109	46	172
+15 mins.	5	76	55	136	80	**344**	22	446	31	55	**22**	108	**30**	**128**	**52**	**210**
+30 mins.	**27**	**105**	**87**	**219**	**98**	336	**27**	**461**	**40**	62	16	**118**	14	103	37	154
+45 mins.	16	99	68	183	78	315	17	410	28	44	17	89	24	128	39	191
Total Volume	66	370	269	705	320	1316	85	1721	131	224	73	428	85	468	174	727
% App. Total	9.4	52.5	38.2		18.6	76.5	4.9		30.6	52.3	17.1		11.7	64.4	23.9	
PHF	.611	.881	.773	.805	.816	.956	.787	.933	.819	.889	.830	.907	.708	.914	.837	.865

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles

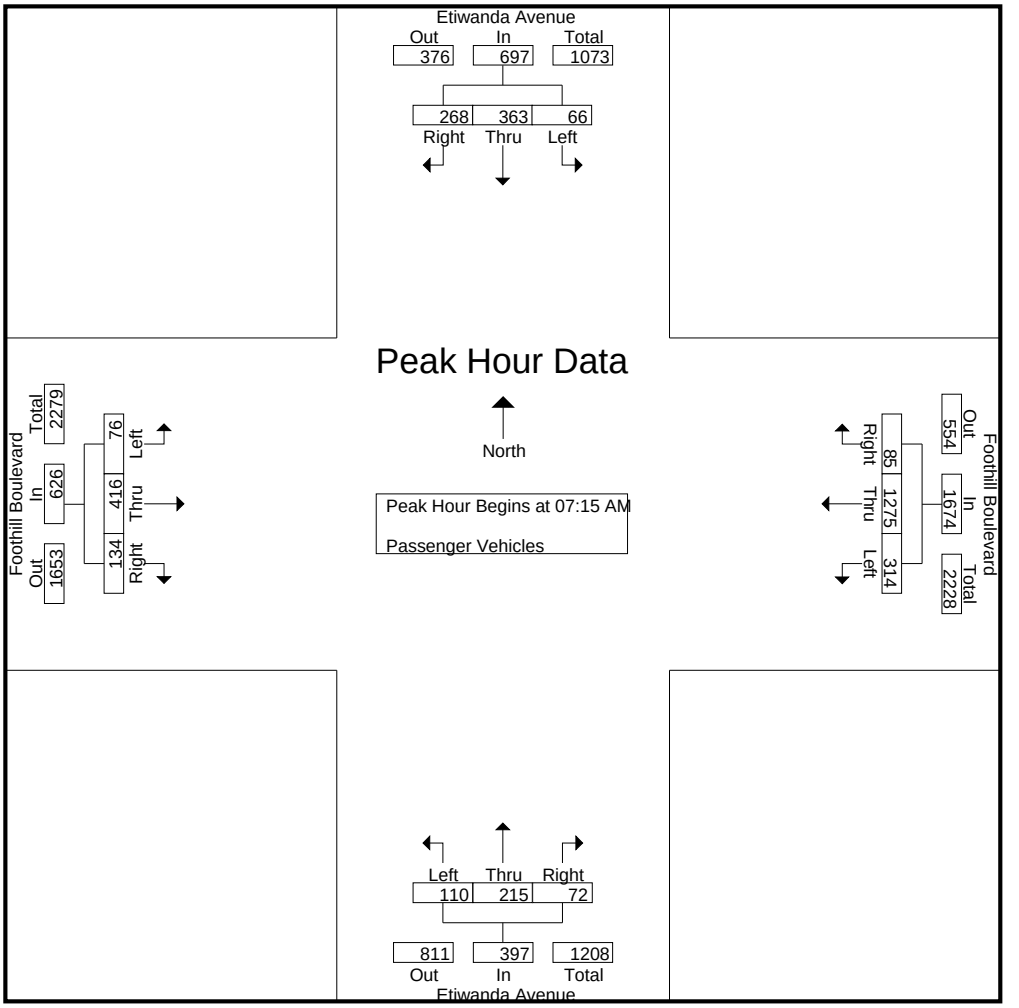
	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	7	84	58	149	45	271	16	332	19	35	14	68	15	94	34	143	692
07:15 AM	18	87	58	163	63	310	19	392	26	58	18	102	16	82	27	125	782
07:30 AM	5	76	55	136	79	336	22	437	26	54	21	101	14	108	28	150	824
07:45 AM	27	103	87	217	96	326	27	449	34	60	16	110	16	103	41	160	936
Total	57	350	258	665	283	1243	84	1610	105	207	69	381	61	387	130	578	3234
08:00 AM	16	97	68	181	76	303	17	396	24	43	17	84	30	123	38	191	852
08:15 AM	9	81	54	144	37	194	5	236	30	23	13	66	14	89	25	128	574
08:30 AM	6	48	48	102	40	188	10	238	30	12	19	61	23	115	31	169	570
08:45 AM	3	43	40	86	30	174	9	213	26	34	16	76	22	102	19	143	518
Total	34	269	210	513	183	859	41	1083	110	112	65	287	89	429	113	631	2514
Grand Total	91	619	468	1178	466	2102	125	2693	215	319	134	668	150	816	243	1209	5748
Apprch %	7.7	52.5	39.7		17.3	78.1	4.6		32.2	47.8	20.1		12.4	67.5	20.1		
Total %	1.6	10.8	8.1	20.5	8.1	36.6	2.2	46.9	3.7	5.5	2.3	11.6	2.6	14.2	4.2	21	

	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	18	87	58	163	63	310	19	392	26	58	18	102	16	82	27	125	782
07:30 AM	5	76	55	136	79	**336**	22	437	26	54	**21**	101	14	108	28	150	824
07:45 AM	**27**	**103**	**87**	**217**	**96**	326	**27**	**449**	**34**	**60**	16	**110**	16	103	**41**	160	**936**
08:00 AM	16	97	68	181	76	303	17	396	24	43	17	84	**30**	**123**	38	**191**	852
Total Volume	66	363	268	697	314	1275	85	1674	110	215	72	397	76	416	134	626	3394
% App. Total	9.5	52.1	38.5		18.8	76.2	5.1		27.7	54.2	18.1		12.1	66.5	21.4		
PHF	.611	.881	.770	.803	.818	.949	.787	.932	.809	.896	.857	.902	.633	.846	.817	.819	.907

Counts Unlimited
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill AM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	18	87	58	163	63	310	19	392	26	58	18	102	16	82	27	125
+15 mins.	5	76	55	136	79	**336**	22	437	26	54	**21**	101	14	108	28	150
+30 mins.	**27**	**103**	**87**	**217**	**96**	326	**27**	**449**	**34**	**60**	16	**110**	16	103	**41**	160
+45 mins.	16	97	68	181	76	303	17	396	24	43	17	84	**30**	**123**	38	**191**
Total Volume	66	363	268	697	314	1275	85	1674	110	215	72	397	76	416	134	626
% App. Total	9.5	52.1	38.5		18.8	76.2	5.1		27.7	54.2	18.1		12.1	66.5	21.4	
PHF	.611	.881	.770	.803	.818	.949	.787	.932	.809	.896	.857	.902	.633	.846	.817	.819

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(951) 268-6268

City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Large 2 Axle Vehicles

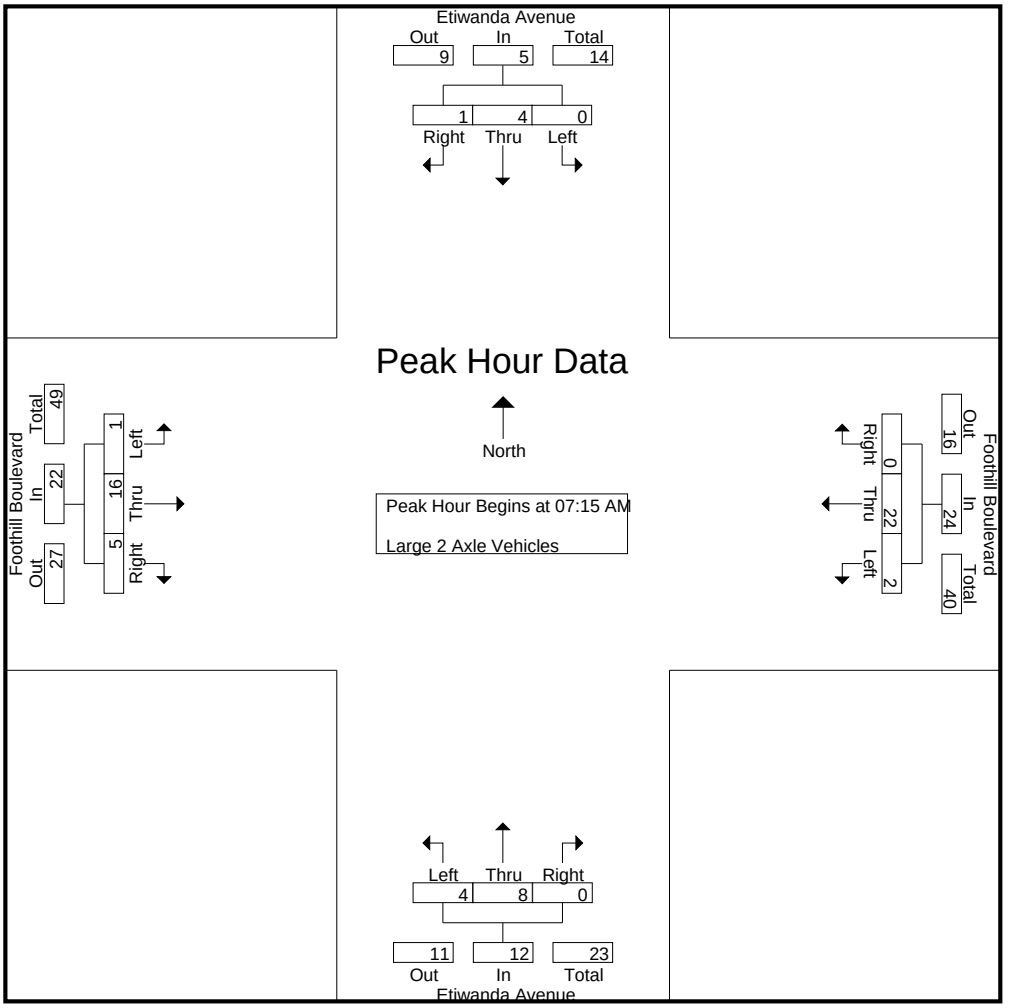
	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	1	1	2	5	0	7	1	1	1	3	1	6	0	7	18
07:15 AM	0	3	1	4	1	6	0	7	1	4	0	5	0	5	1	6	22
07:30 AM	0	0	0	0	0	6	0	6	0	1	0	1	0	5	1	6	13
07:45 AM	0	0	0	0	0	6	0	6	2	2	0	4	1	2	0	3	13
Total	0	3	2	5	3	23	0	26	4	8	1	13	2	18	2	22	66
08:00 AM	0	1	0	1	1	4	0	5	1	1	0	2	0	4	3	7	15
08:15 AM	0	2	0	2	0	4	0	4	1	0	0	1	0	7	0	7	14
08:30 AM	0	0	0	0	0	8	0	8	1	2	0	3	1	3	0	4	15
08:45 AM	0	2	0	2	1	5	0	6	0	0	0	0	2	1	2	5	13
Total	0	5	0	5	2	21	0	23	3	3	0	6	3	15	5	23	57
Grand Total	0	8	2	10	5	44	0	49	7	11	1	19	5	33	7	45	123
Apprch %	0	80	20		10.2	89.8	0		36.8	57.9	5.3		11.1	73.3	15.6		
Total %	0	6.5	1.6	8.1	4.1	35.8	0	39.8	5.7	8.9	0.8	15.4	4.1	26.8	5.7	36.6	

	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	**3**	**1**	**4**	**1**	**6**	0	**7**	1	**4**	0	**5**	0	**5**	1	6	**22**
07:30 AM	0	0	0	0	0	6	0	6	0	1	0	1	0	5	1	6	13
07:45 AM	0	0	0	0	0	6	0	6	**2**	2	0	4	**1**	2	0	3	13
08:00 AM	0	1	0	1	1	4	0	5	1	1	0	2	0	4	**3**	**7**	15
Total Volume	0	4	1	5	2	22	0	24	4	8	0	12	1	16	5	22	63
% App. Total	0	80	20		8.3	91.7	0		33.3	66.7	0		4.5	72.7	22.7		
PHF	.000	.333	.250	.313	.500	.917	.000	.857	.500	.500	.000	.600	.250	.800	.417	.786	.716

Counts Unlimited
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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill AM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	**3**	**1**	**4**	**1**	**6**	0	**7**	1	**4**	0	**5**	0	**5**	1	6
+15 mins.	0	0	0	0	0	6	0	6	0	1	0	1	0	5	1	6
+30 mins.	0	0	0	0	0	6	0	6	**2**	2	0	4	**1**	2	0	3
+45 mins.	0	1	0	1	1	4	0	5	1	1	0	2	0	4	**3**	**7**
Total Volume	0	4	1	5	2	22	0	24	4	8	0	12	1	16	5	22
% App. Total	0	80	20		8.3	91.7	0		33.3	66.7	0		4.5	72.7	22.7	
PHF	.000	.333	.250	.313	.500	.917	.000	.857	.500	.500	.000	.600	.250	.800	.417	.786

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 3 Axle Vehicles

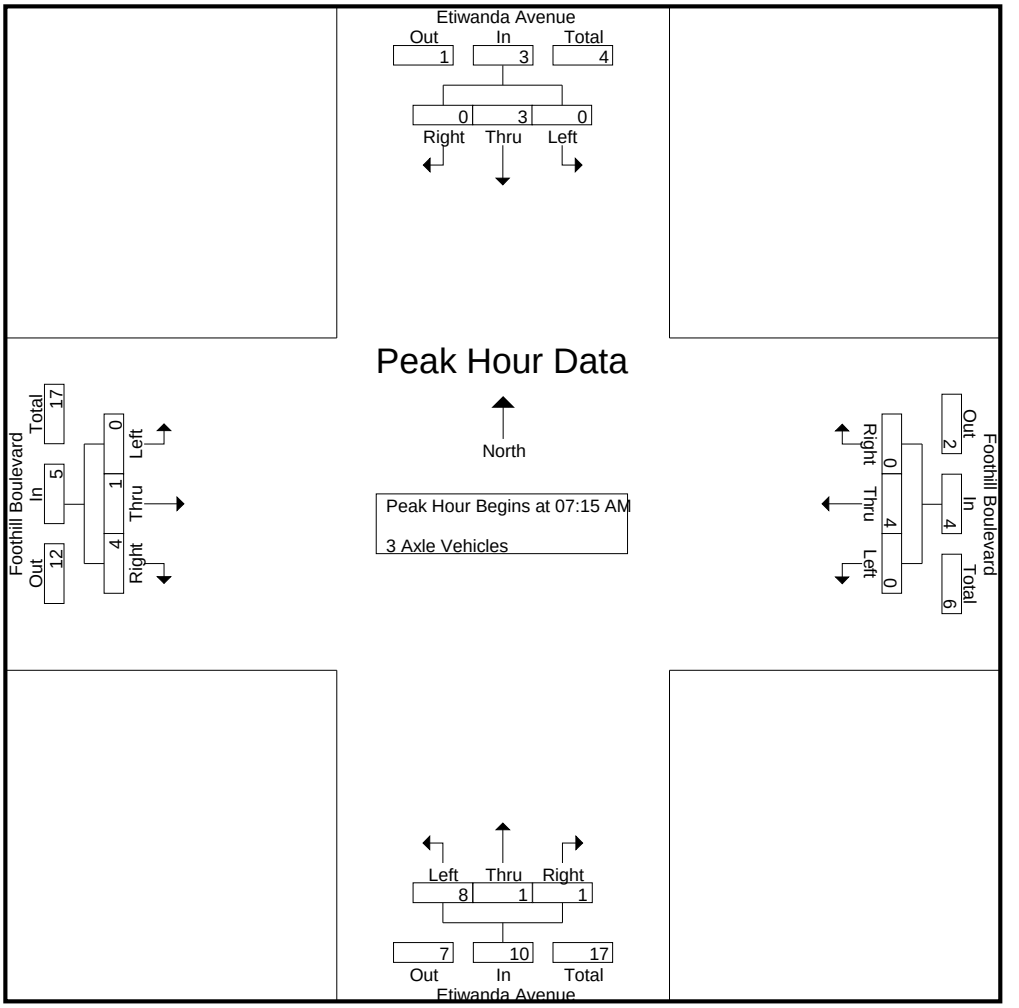
	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	1	0	1	2	1	0	3	2	0	0	2	0	0	2	2	8
07:15 AM	0	0	0	0	0	2	0	2	3	1	0	4	0	0	1	1	7
07:30 AM	0	0	0	0	0	0	0	0	1	0	1	2	0	0	1	1	3
07:45 AM	0	2	0	2	0	1	0	1	2	0	0	2	0	1	2	3	8
Total	0	3	0	3	2	4	0	6	8	1	1	10	0	1	6	7	26
08:00 AM	0	1	0	1	0	1	0	1	2	0	0	2	0	0	0	0	4
08:15 AM	0	0	1	1	0	1	1	2	4	0	0	4	0	1	2	3	10
08:30 AM	0	0	0	0	0	0	0	0	0	2	0	2	0	2	2	4	6
08:45 AM	0	0	0	0	1	0	0	1	2	0	2	4	0	2	1	3	8
Total	0	1	1	2	1	2	1	4	8	2	2	12	0	5	5	10	28
Grand Total	0	4	1	5	3	6	1	10	16	3	3	22	0	6	11	17	54
Apprch %	0	80	20		30	60	10		72.7	13.6	13.6		0	35.3	64.7		
Total %	0	7.4	1.9	9.3	5.6	11.1	1.9	18.5	29.6	5.6	5.6	40.7	0	11.1	20.4	31.5	

	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	0	0	0	0	**2**	0	**2**	**3**	**1**	0	**4**	0	0	1	1	7
07:30 AM	0	0	0	0	0	0	0	0	1	0	**1**	2	0	0	1	1	3
07:45 AM	0	**2**	0	**2**	0	1	0	1	2	0	0	2	0	**1**	**2**	**3**	**8**
08:00 AM	0	1	0	1	0	1	0	1	2	0	0	2	0	0	0	0	4
Total Volume	0	3	0	3	0	4	0	4	8	1	1	10	0	1	4	5	22
% App. Total	0	100	0		0	100	0		80	10	10		0	20	80		
PHF	.000	.375	.000	.375	.000	.500	.000	.500	.667	.250	.250	.625	.000	.250	.500	.417	.688

Counts Unlimited
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Corona, CA 92878
(951) 268-6268

City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill AM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	0	0	0	0	**2**	0	**2**	**3**	**1**	0	**4**	0	0	1	1
+15 mins.	0	0	0	0	0	0	0	0	1	0	**1**	2	0	0	1	1
+30 mins.	0	**2**	0	**2**	0	1	0	1	2	0	0	2	0	**1**	**2**	**3**
+45 mins.	0	1	0	1	0	1	0	1	2	0	0	2	0	0	0	0
Total Volume	0	3	0	3	0	4	0	4	8	1	1	10	0	1	4	5
% App. Total	0	100	0		0	100	0		80	10	10		0	20	80	
PHF	.000	.375	.000	.375	.000	.500	.000	.500	.667	.250	.250	.625	.000	.250	.500	.417

Counts Unlimited
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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 4+ Axle Trucks

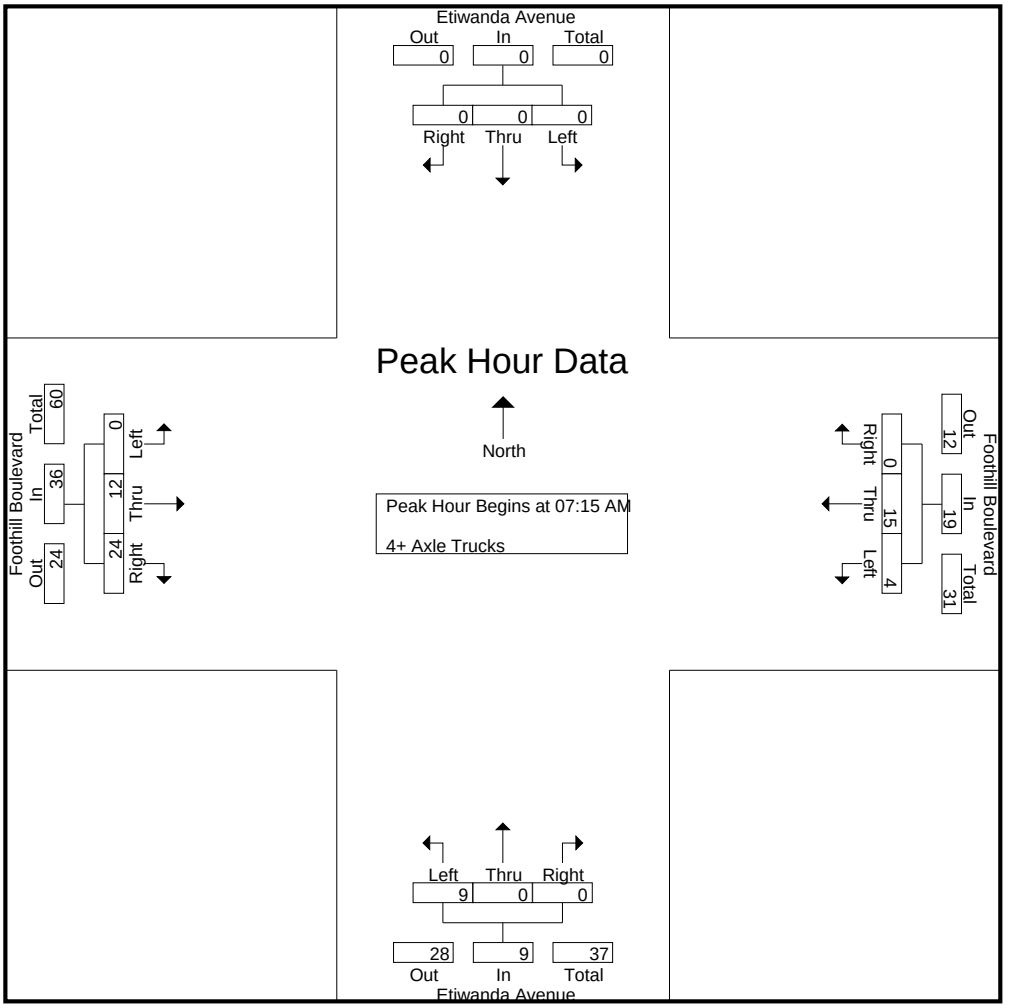
	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	1	0	1	10	0	0	10	0	1	0	1	12
07:15 AM	0	0	0	0	0	3	0	3	2	0	0	2	0	3	5	8	13
07:30 AM	0	0	0	0	1	2	0	3	4	0	0	4	0	5	5	10	17
07:45 AM	0	0	0	0	2	3	0	5	2	0	0	2	0	3	3	6	13
Total	0	0	0	0	3	9	0	12	18	0	0	18	0	12	13	25	55
08:00 AM	0	0	0	0	1	7	0	8	1	0	0	1	0	1	11	12	21
08:15 AM	0	1	0	1	1	2	0	3	6	0	0	6	0	6	10	16	26
08:30 AM	0	2	0	2	0	3	0	3	1	0	0	1	0	8	6	14	20
08:45 AM	0	1	0	1	1	5	0	6	7	0	0	7	0	1	3	4	18
Total	0	4	0	4	3	17	0	20	15	0	0	15	0	16	30	46	85
Grand Total	0	4	0	4	6	26	0	32	33	0	0	33	0	28	43	71	140
Apprch %	0	100	0		18.8	81.2	0		100	0	0		0	39.4	60.6		
Total %	0	2.9	0	2.9	4.3	18.6	0	22.9	23.6	0	0	23.6	0	20	30.7	50.7	

	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	0	0	0	0	3	0	3	2	0	0	2	0	3	5	8	13
07:30 AM	0	0	0	0	1	2	0	3	**4**	0	0	**4**	0	**5**	5	10	17
07:45 AM	0	0	0	0	**2**	3	0	5	2	0	0	2	0	3	3	6	13
08:00 AM	0	0	0	0	1	**7**	0	**8**	1	0	0	1	0	1	**11**	**12**	**21**
Total Volume	0	0	0	0	4	15	0	19	9	0	0	9	0	12	24	36	64
% App. Total	0	0	0		21.1	78.9	0		100	0	0		0	33.3	66.7		
PHF	.000	.000	.000	.000	.500	.536	.000	.594	.563	.000	.000	.563	.000	.600	.545	.750	.762

Counts Unlimited
PO Box 1178
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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	0	0	0	0	3	0	3	2	0	0	2	0	3	5	8
+15 mins.	0	0	0	0	1	2	0	3	**4**	0	0	**4**	0	**5**	5	10
+30 mins.	0	0	0	0	**2**	3	0	5	2	0	0	2	0	3	3	6
+45 mins.	0	0	0	0	1	**7**	0	**8**	1	0	0	1	0	1	**11**	**12**
Total Volume	0	0	0	0	4	15	0	19	9	0	0	9	0	12	24	36
% App. Total	0	0	0		21.1	78.9	0		100	0	0		0	33.3	66.7	
PHF	.000	.000	.000	.000	.500	.536	.000	.594	.563	.000	.000	.563	.000	.600	.545	.750

Counts Unlimited
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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

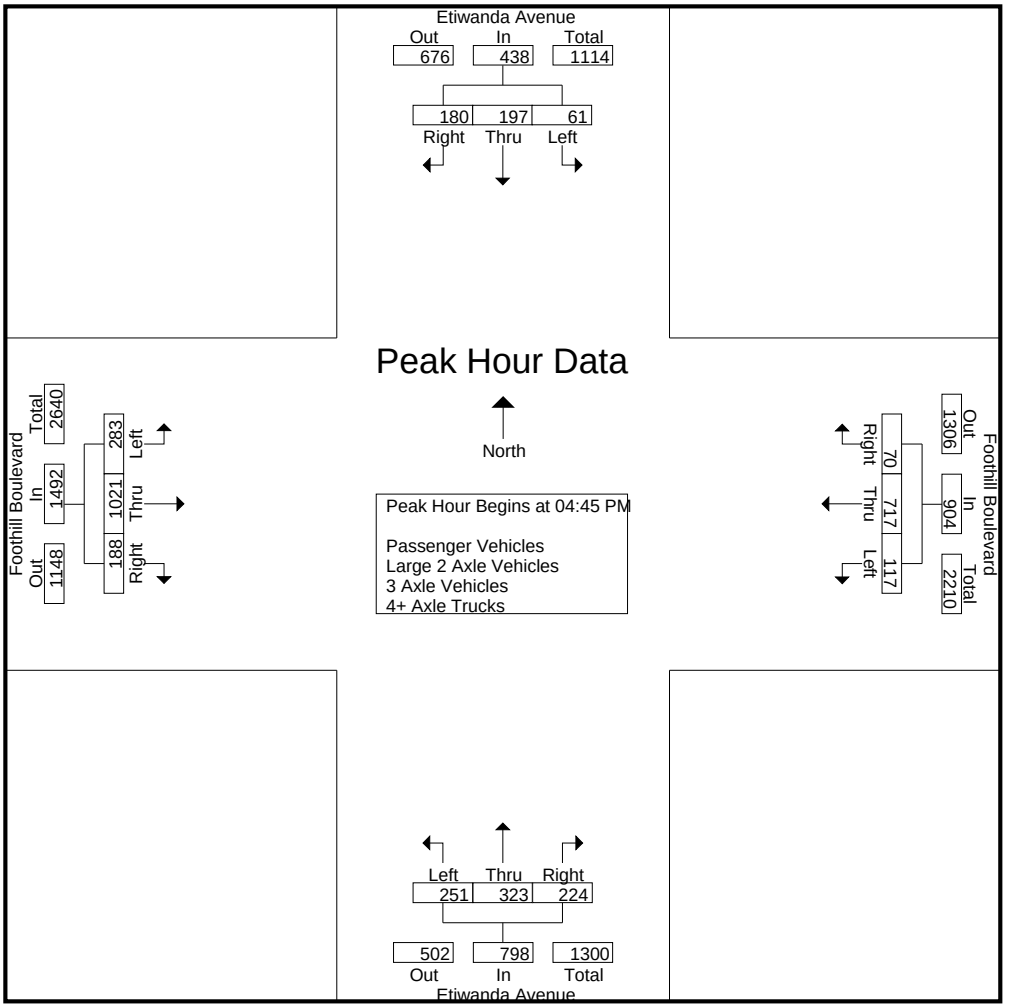
	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	25	48	35	108	25	188	10	223	54	70	39	163	47	252	46	345	839
04:15 PM	10	37	37	84	35	174	13	222	67	81	60	208	61	238	46	345	859
04:30 PM	21	43	40	104	10	198	11	219	55	79	62	196	66	267	37	370	889
04:45 PM	20	56	57	133	31	190	14	235	70	91	57	218	63	217	42	322	908
Total	76	184	169	429	101	750	48	899	246	321	218	785	237	974	171	1382	3495
05:00 PM	9	41	44	94	27	181	20	228	65	66	63	194	80	252	42	374	890
05:15 PM	18	56	44	118	28	186	22	236	55	83	58	196	46	236	51	333	883
05:30 PM	14	44	35	93	31	160	14	205	61	83	46	190	94	316	53	463	951
05:45 PM	13	62	61	136	18	197	23	238	45	85	49	179	58	259	28	345	898
Total	54	203	184	441	104	724	79	907	226	317	216	759	278	1063	174	1515	3622
Grand Total	130	387	353	870	205	1474	127	1806	472	638	434	1544	515	2037	345	2897	7117
Apprch %	14.9	44.5	40.6		11.4	81.6	7		30.6	41.3	28.1		17.8	70.3	11.9		
Total %	1.8	5.4	5	12.2	2.9	20.7	1.8	25.4	6.6	9	6.1	21.7	7.2	28.6	4.8	40.7	
Passenger Vehicles	129	362	352	843	191	1434	127	1752	440	631	425	1496	515	1991	308	2814	6905
% Passenger Vehicles	99.2	93.5	99.7	96.9	93.2	97.3	100	97	93.2	98.9	97.9	96.9	100	97.7	89.3	97.1	97
Large 2 Axle Vehicles	1	2	1	4	7	16	0	23	6	6	3	15	0	35	9	44	86
% Large 2 Axle Vehicles	0.8	0.5	0.3	0.5	3.4	1.1	0	1.3	1.3	0.9	0.7	1	0	1.7	2.6	1.5	1.2
3 Axle Vehicles	0	23	0	23	3	1	0	4	6	1	2	9	0	2	6	8	44
% 3 Axle Vehicles	0	5.9	0	2.6	1.5	0.1	0	0.2	1.3	0.2	0.5	0.6	0	0.1	1.7	0.3	0.6
4+ Axle Trucks	0	0	0	0	4	23	0	27	20	0	4	24	0	9	22	31	82
% 4+ Axle Trucks	0	0	0	0	2	1.6	0	1.5	4.2	0	0.9	1.6	0	0.4	6.4	1.1	1.2

	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	**20**	**56**	**57**	**133**	**31**	**190**	14	235	**70**	**91**	57	**218**	63	217	42	322	908
05:00 PM	9	41	44	94	27	181	20	228	65	66	**63**	194	80	252	42	374	890
05:15 PM	18	56	44	118	28	186	**22**	**236**	55	83	58	196	46	236	51	333	883
05:30 PM	14	44	35	93	31	160	14	205	61	83	46	190	**94**	**316**	**53**	**463**	**951**
Total Volume	61	197	180	438	117	717	70	904	251	323	224	798	283	1021	188	1492	3632
% App. Total	13.9	45	41.1		12.9	79.3	7.7		31.5	40.5	28.1		19	68.4	12.6		
PHF	.763	.879	.789	.823	.944	.943	.795	.958	.896	.887	.889	.915	.753	.808	.887	.806	.955

Counts Unlimited
PO Box 1178
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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill PM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:15 PM				05:00 PM			
+0 mins.	**21**	43	40	104	10	**198**	11	219	67	81	60	208	80	252	42	374
+15 mins.	20	**56**	**57**	**133**	**31**	190	14	235	55	79	62	196	46	236	51	333
+30 mins.	9	41	44	94	27	181	20	228	**70**	**91**	57	**218**	**94**	**316**	**53**	**463**
+45 mins.	18	56	44	118	28	186	**22**	**236**	65	66	**63**	194	58	259	28	345
Total Volume	68	196	185	449	96	755	67	918	257	317	242	816	278	1063	174	1515
% App. Total	15.1	43.7	41.2		10.5	82.2	7.3		31.5	38.8	29.7		18.3	70.2	11.5	
PHF	.810	.875	.811	.844	.774	.953	.761	.972	.918	.871	.960	.936	.739	.841	.821	.818

Counts Unlimited
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles

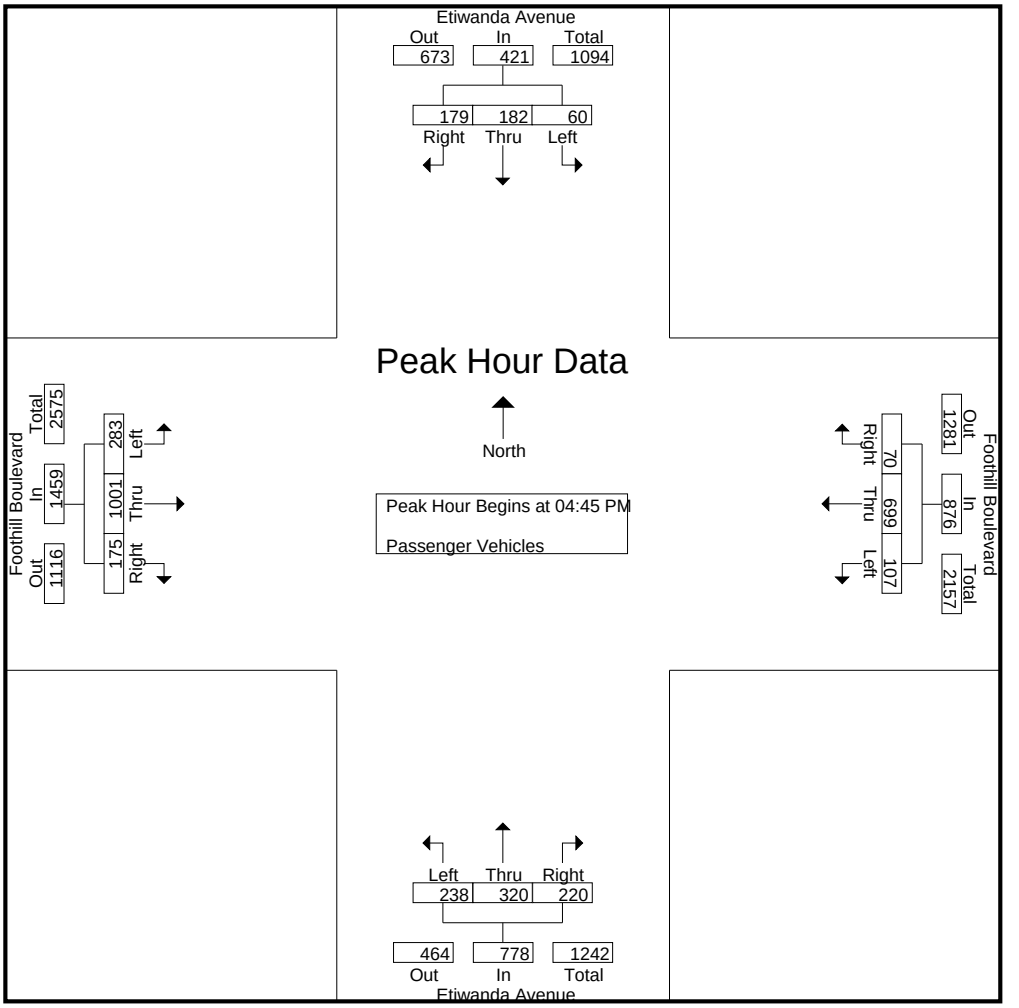
	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	25	47	35	107	23	184	10	217	45	69	38	152	47	247	37	331	807
04:15 PM	10	34	37	81	34	165	13	212	62	79	58	199	61	230	38	329	821
04:30 PM	21	38	40	99	9	191	11	211	54	78	61	193	66	261	34	361	864
04:45 PM	20	44	57	121	30	188	14	232	65	90	56	211	63	212	38	313	877
Total	76	163	169	408	96	728	48	872	226	316	213	755	237	950	147	1334	3369
05:00 PM	9	40	43	92	25	175	20	220	65	65	63	193	80	250	39	369	874
05:15 PM	18	55	44	117	25	180	22	227	50	82	56	188	46	228	48	322	854
05:30 PM	13	43	35	91	27	156	14	197	58	83	45	186	94	311	50	455	929
05:45 PM	13	61	61	135	18	195	23	236	41	85	48	174	58	252	24	334	879
Total	53	199	183	435	95	706	79	880	214	315	212	741	278	1041	161	1480	3536
Grand Total	129	362	352	843	191	1434	127	1752	440	631	425	1496	515	1991	308	2814	6905
Apprch %	15.3	42.9	41.8		10.9	81.8	7.2		29.4	42.2	28.4		18.3	70.8	10.9		
Total %	1.9	5.2	5.1	12.2	2.8	20.8	1.8	25.4	6.4	9.1	6.2	21.7	7.5	28.8	4.5	40.8	

	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	**20**	44	**57**	**121**	**30**	**188**	14	**232**	**65**	**90**	56	**211**	63	212	38	313	877
05:00 PM	9	40	43	92	25	175	20	220	65	65	**63**	193	80	250	39	369	874
05:15 PM	18	**55**	44	117	25	180	**22**	227	50	82	56	188	46	228	48	322	854
05:30 PM	13	43	35	91	27	156	14	197	58	83	45	186	**94**	**311**	**50**	**455**	**929**
Total Volume	60	182	179	421	107	699	70	876	238	320	220	778	283	1001	175	1459	3534
% App. Total	14.3	43.2	42.5		12.2	79.8	8		30.6	41.1	28.3		19.4	68.6	12		
PHF	.750	.827	.785	.870	.892	.930	.795	.944	.915	.889	.873	.922	.753	.805	.875	.802	.951

Counts Unlimited
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	**20**	44	**57**	**121**	**30**	**188**	14	**232**	**65**	**90**	56	**211**	63	212	38	313
+15 mins.	9	40	43	92	25	175	20	220	65	65	**63**	193	80	250	39	369
+30 mins.	18	**55**	44	117	25	180	**22**	227	50	82	56	188	46	228	48	322
+45 mins.	13	43	35	91	27	156	14	197	58	83	45	186	**94**	**311**	**50**	**455**
Total Volume	60	182	179	421	107	699	70	876	238	320	220	778	283	1001	175	1459
% App. Total	14.3	43.2	42.5		12.2	79.8	8		30.6	41.1	28.3		19.4	68.6	12	
PHF	.750	.827	.785	.870	.892	.930	.795	.944	.915	.889	.873	.922	.753	.805	.875	.802

Counts Unlimited
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Corona, CA 92878
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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Large 2 Axle Vehicles

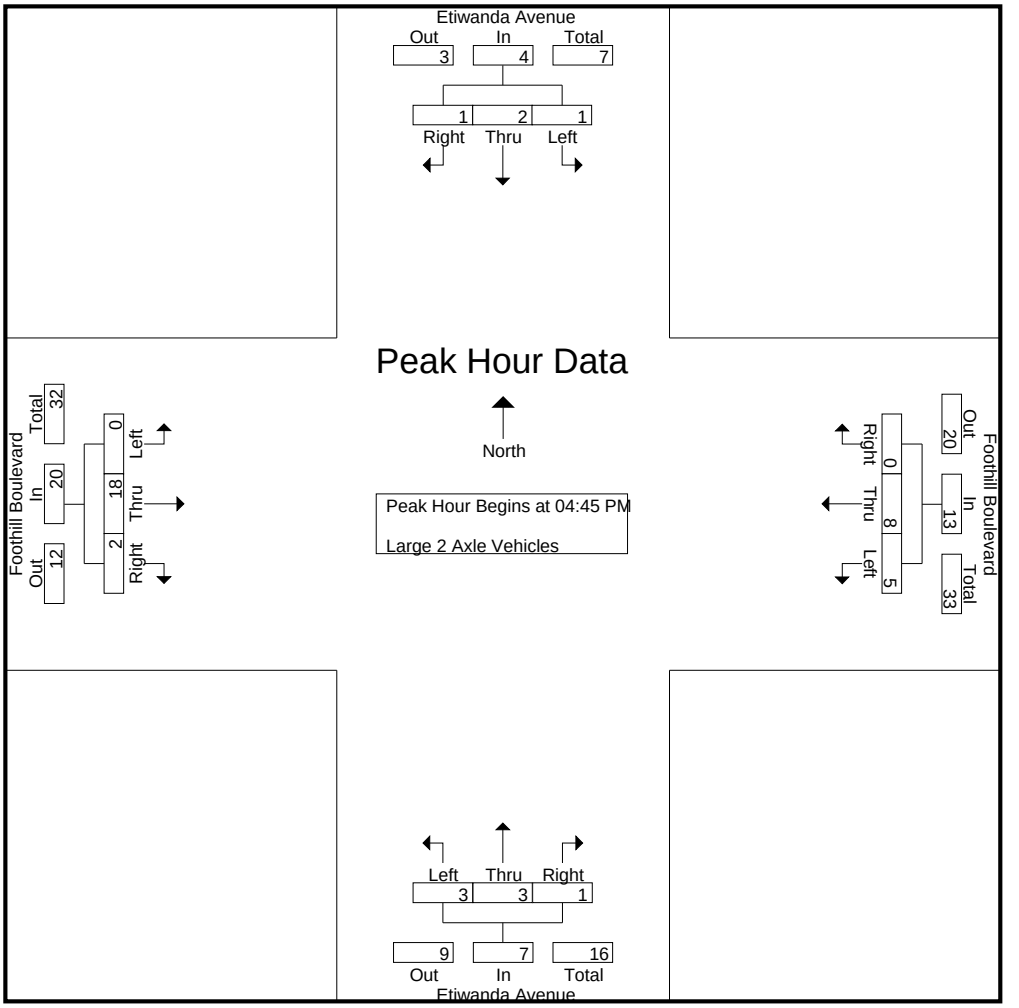
	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	1	0	1	2	1	0	3	0	2	1	3	7
04:15 PM	0	0	0	0	1	2	0	3	1	1	1	3	0	5	5	10	16
04:30 PM	0	0	0	0	1	3	0	4	0	1	1	2	0	4	0	4	10
04:45 PM	0	1	0	1	1	0	0	1	0	1	0	1	0	5	0	5	8
Total	0	1	0	1	3	6	0	9	3	4	2	9	0	16	6	22	41
05:00 PM	0	0	1	1	1	2	0	3	0	1	0	1	0	1	0	1	6
05:15 PM	0	1	0	1	0	2	0	2	2	1	1	4	0	7	1	8	15
05:30 PM	1	0	0	1	3	4	0	7	1	0	0	1	0	5	1	6	15
05:45 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	6	1	7	9
Total	1	1	1	3	4	10	0	14	3	2	1	6	0	19	3	22	45
Grand Total	1	2	1	4	7	16	0	23	6	6	3	15	0	35	9	44	86
Apprch %	25	50	25		30.4	69.6	0		40	40	20		0	79.5	20.5		
Total %	1.2	2.3	1.2	4.7	8.1	18.6	0	26.7	7	7	3.5	17.4	0	40.7	10.5	51.2	

	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	**1**	0	**1**	1	0	0	1	0	**1**	0	1	0	5	0	5	8
05:00 PM	0	0	**1**	1	1	2	0	3	0	1	0	1	0	1	0	1	6
05:15 PM	0	1	0	1	0	2	0	2	**2**	1	**1**	**4**	0	**7**	**1**	**8**	**15**
05:30 PM	**1**	0	0	1	**3**	**4**	0	**7**	1	0	0	1	0	5	1	6	15
Total Volume	1	2	1	4	5	8	0	13	3	3	1	7	0	18	2	20	44
% App. Total	25	50	25		38.5	61.5	0		42.9	42.9	14.3		0	90	10		
PHF	.250	.500	.250	1.00	.417	.500	.000	.464	.375	.750	.250	.438	.000	.643	.500	.625	.733

Counts Unlimited
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill PM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	**1**	0	**1**	1	0	0	1	0	**1**	0	1	0	5	0	5
+15 mins.	0	0	**1**	1	1	2	0	3	0	1	0	1	0	1	0	1
+30 mins.	0	1	0	1	0	2	0	2	**2**	1	**1**	**4**	0	**7**	**1**	**8**
+45 mins.	**1**	0	0	1	**3**	**4**	0	**7**	1	0	0	1	0	5	1	6
Total Volume	1	2	1	4	5	8	0	13	3	3	1	7	0	18	2	20
% App. Total	25	50	25		38.5	61.5	0		42.9	42.9	14.3		0	90	10	
PHF	.250	.500	.250	1.000	.417	.500	.000	.464	.375	.750	.250	.438	.000	.643	.500	.625

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 3 Axle Vehicles

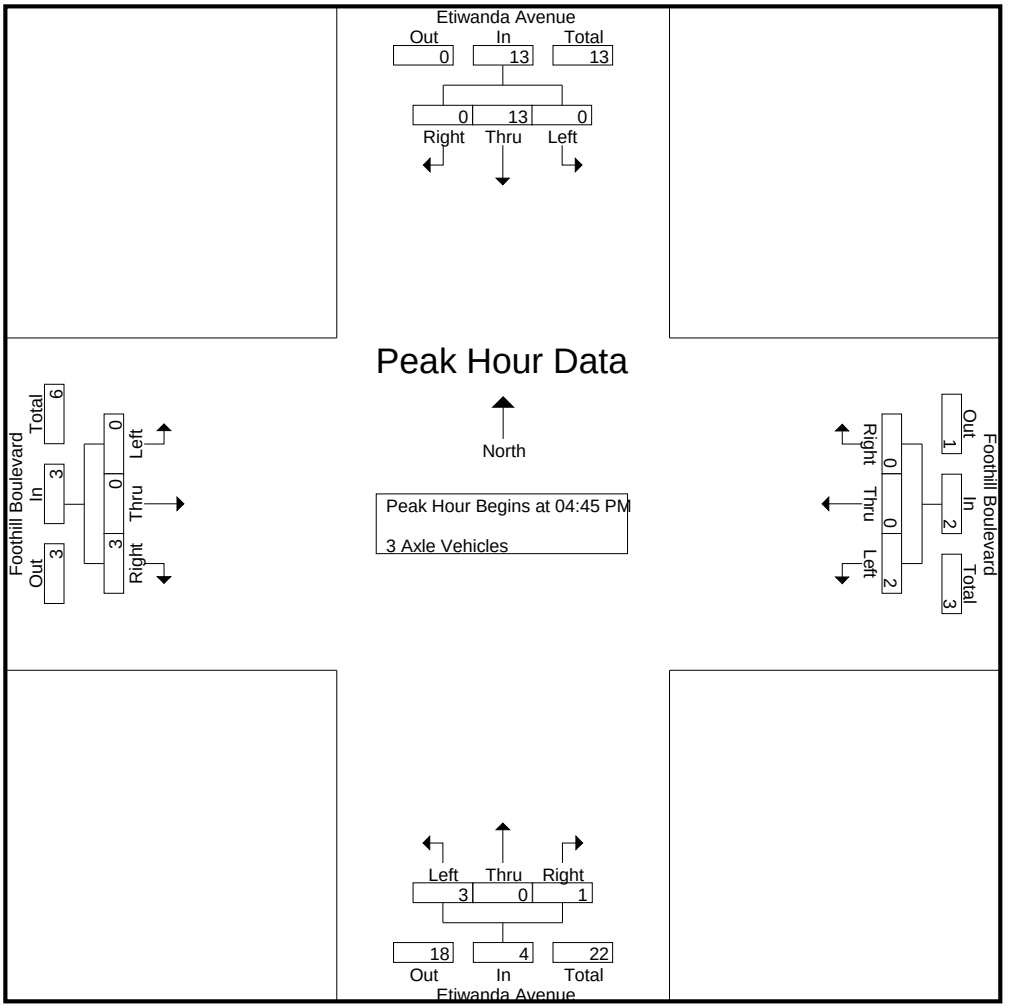
	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	1	0	1	1	0	0	1	1	0	0	1	0	0	0	0	3
04:15 PM	0	3	0	3	0	0	0	0	2	1	0	3	0	1	0	1	7
04:30 PM	0	5	0	5	0	1	0	1	0	0	0	0	0	0	2	2	8
04:45 PM	0	11	0	11	0	0	0	0	2	0	1	3	0	0	2	2	16
Total	0	20	0	20	1	1	0	2	5	1	1	7	0	1	4	5	34
05:00 PM	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	2
05:15 PM	0	0	0	0	1	0	0	1	1	0	0	1	0	0	1	1	3
05:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:45 PM	0	1	0	1	0	0	0	0	0	0	1	1	0	1	1	2	4
Total	0	3	0	3	2	0	0	2	1	0	1	2	0	1	2	3	10
Grand Total	0	23	0	23	3	1	0	4	6	1	2	9	0	2	6	8	44
Apprch %	0	100	0		75	25	0		66.7	11.1	22.2		0	25	75		
Total %	0	52.3	0	52.3	6.8	2.3	0	9.1	13.6	2.3	4.5	20.5	0	4.5	13.6	18.2	

	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	**11**	0	**11**	0	0	0	0	**2**	0	**1**	**3**	0	0	**2**	**2**	**16**
05:00 PM	0	1	0	1	**1**	0	0	**1**	0	0	0	0	0	0	0	0	2
05:15 PM	0	0	0	0	1	0	0	1	1	0	0	1	0	0	1	1	3
05:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	13	0	13	2	0	0	2	3	0	1	4	0	0	3	3	22
% App. Total	0	100	0		100	0	0		75	0	25		0	0	100		
PHF	.000	.295	.000	.295	.500	.000	.000	.500	.375	.000	.250	.333	.000	.000	.375	.375	.344

Counts Unlimited
PO Box 1178
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(951) 268-6268

City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill PM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	**11**	0	**11**	0	0	0	0	**2**	0	**1**	**3**	0	0	**2**	**2**
+15 mins.	0	1	0	1	**1**	0	0	**1**	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	1	0	0	1	1	0	0	1	0	0	1	1
+45 mins.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	13	0	13	2	0	0	2	3	0	1	4	0	0	3	3
% App. Total	0	100	0		100	0	0		75	0	25		0	0	100	
PHF	.000	.295	.000	.295	.500	.000	.000	.500	.375	.000	.250	.333	.000	.000	.375	.375

Counts Unlimited
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(951) 268-6268

City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 4+ Axle Trucks

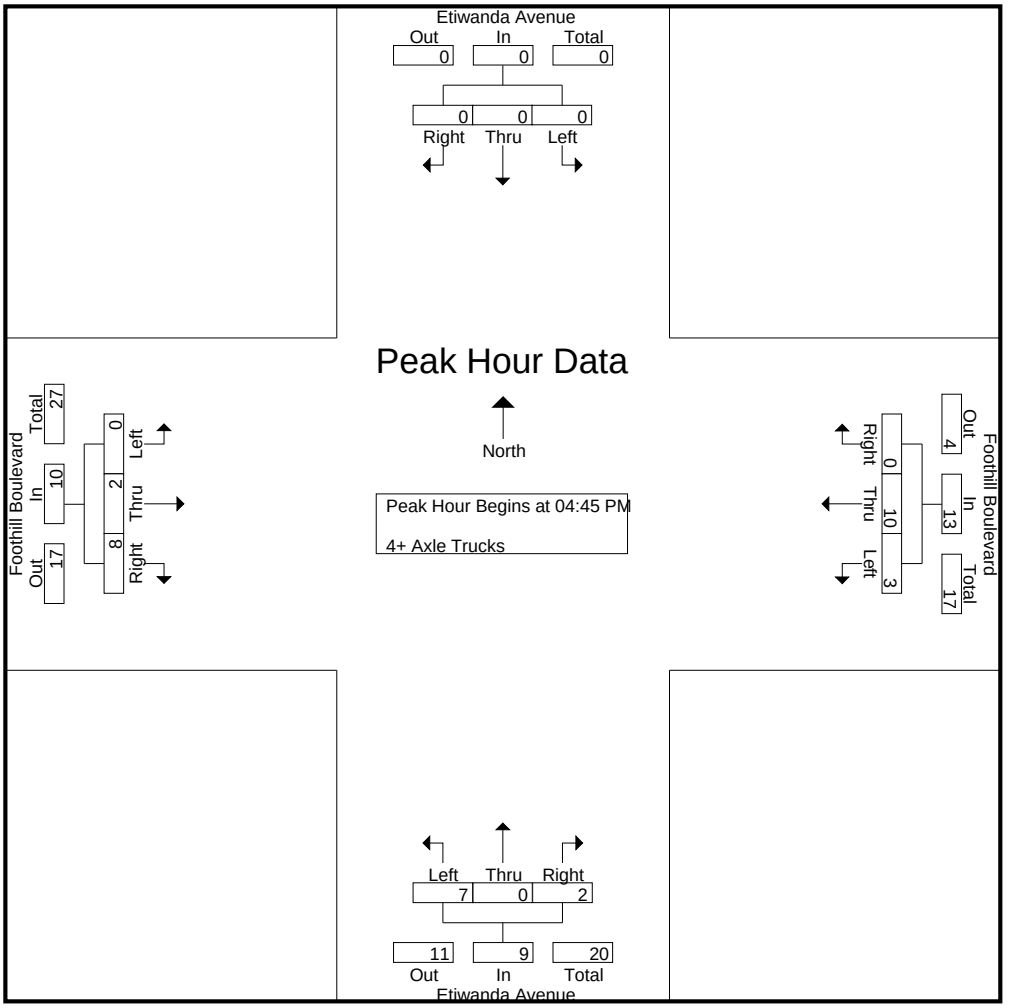
	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	1	3	0	4	6	0	1	7	0	3	8	11	22
04:15 PM	0	0	0	0	0	7	0	7	2	0	1	3	0	2	3	5	15
04:30 PM	0	0	0	0	0	3	0	3	1	0	0	1	0	2	1	3	7
04:45 PM	0	0	0	0	0	2	0	2	3	0	0	3	0	0	2	2	7
Total	0	0	0	0	1	15	0	16	12	0	2	14	0	7	14	21	51
05:00 PM	0	0	0	0	0	4	0	4	0	0	0	0	0	1	3	4	8
05:15 PM	0	0	0	0	2	4	0	6	2	0	1	3	0	1	1	2	11
05:30 PM	0	0	0	0	1	0	0	1	2	0	1	3	0	0	2	2	6
05:45 PM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	2	2	6
Total	0	0	0	0	3	8	0	11	8	0	2	10	0	2	8	10	31
Grand Total	0	0	0	0	4	23	0	27	20	0	4	24	0	9	22	31	82
Apprch %	0	0	0		14.8	85.2	0		83.3	0	16.7		0	29	71		
Total %	0	0	0	0	4.9	28	0	32.9	24.4	0	4.9	29.3	0	11	26.8	37.8	

	Etiwanda Avenue Southbound				Foothill Boulevard Westbound				Etiwanda Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	0	0	0	0	2	0	2	**3**	0	0	**3**	0	0	2	2	7
05:00 PM	0	0	0	0	0	**4**	0	4	0	0	0	0	0	**1**	**3**	**4**	8
05:15 PM	0	0	0	0	**2**	4	0	**6**	2	0	**1**	3	0	1	1	2	**11**
05:30 PM	0	0	0	0	1	0	0	1	2	0	1	3	0	0	2	2	6
Total Volume	0	0	0	0	3	10	0	13	7	0	2	9	0	2	8	10	32
% App. Total	0	0	0		23.1	76.9	0		77.8	0	22.2		0	20	80		
PHF	.000	.000	.000	.000	.375	.625	.000	.542	.583	.000	.500	.750	.000	.500	.667	.625	.727

Counts Unlimited
PO Box 1178
Corona, CA 92878
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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_RNC_Etiwanda_Foothill PM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	0	0	0	0	2	0	2	**3**	0	0	**3**	0	0	2	2
+15 mins.	0	0	0	0	0	**4**	0	4	0	0	0	0	0	**1**	**3**	**4**
+30 mins.	0	0	0	0	**2**	4	0	**6**	2	0	**1**	3	0	1	1	2
+45 mins.	0	0	0	0	1	0	0	1	2	0	1	3	0	0	2	2
Total Volume	0	0	0	0	3	10	0	13	7	0	2	9	0	2	8	10
% App. Total	0	0	0		23.1	76.9	0		77.8	0	22.2		0	20	80	
PHF	.000	.000	.000	.000	.375	.625	.000	.542	.583	.000	.500	.750	.000	.500	.667	.625

Counts Unlimited
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Corona, CA 92878
(951) 268-6268

City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

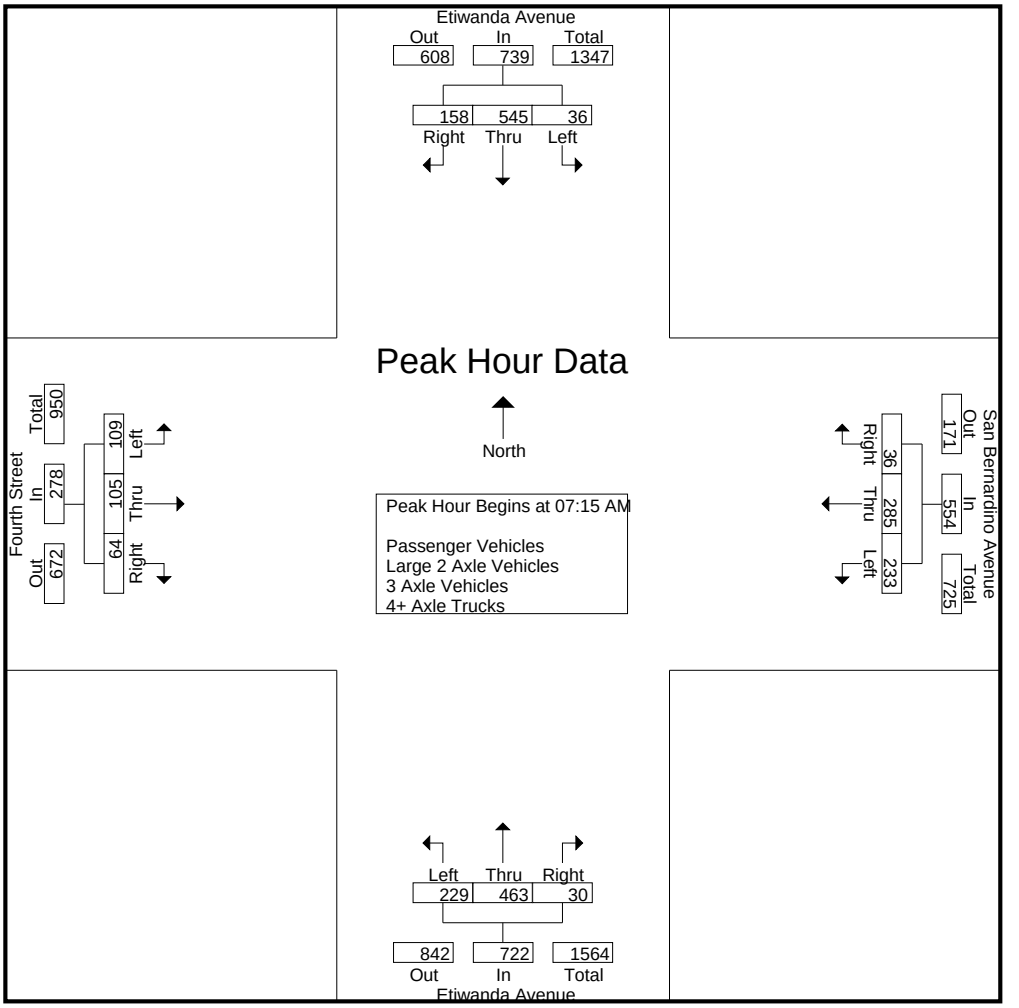
	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	8	112	22	142	53	45	7	105	33	102	10	145	23	22	17	62	454
07:15 AM	6	118	30	154	78	44	9	131	40	120	5	165	35	26	11	72	522
07:30 AM	13	172	52	237	54	85	7	146	63	135	4	202	22	25	15	62	647
07:45 AM	10	100	45	155	52	103	9	164	78	106	11	195	31	25	21	77	591
Total	37	502	149	688	237	277	32	546	214	463	30	707	111	98	64	273	2214
08:00 AM	7	155	31	193	49	53	11	113	48	102	10	160	21	29	17	67	533
08:15 AM	12	119	43	174	40	53	4	97	33	85	6	124	26	25	12	63	458
08:30 AM	6	112	24	142	40	37	4	81	23	89	7	119	12	23	25	60	402
08:45 AM	7	101	29	137	26	39	6	71	29	92	6	127	17	28	8	53	388
Total	32	487	127	646	155	182	25	362	133	368	29	530	76	105	62	243	1781
Grand Total	69	989	276	1334	392	459	57	908	347	831	59	1237	187	203	126	516	3995
Apprch %	5.2	74.1	20.7		43.2	50.6	6.3		28.1	67.2	4.8		36.2	39.3	24.4		
Total %	1.7	24.8	6.9	33.4	9.8	11.5	1.4	22.7	8.7	20.8	1.5	31	4.7	5.1	3.2	12.9	
Passenger Vehicles	45	764	241	1050	291	408	43	742	306	641	38	985	151	157	92	400	3177
% Passenger Vehicles	65.2	77.2	87.3	78.7	74.2	88.9	75.4	81.7	88.2	77.1	64.4	79.6	80.7	77.3	73	77.5	79.5
Large 2 Axle Vehicles	3	18	4	25	7	16	2	25	10	17	4	31	4	11	7	22	103
% Large 2 Axle Vehicles	4.3	1.8	1.4	1.9	1.8	3.5	3.5	2.8	2.9	2	6.8	2.5	2.1	5.4	5.6	4.3	2.6
3 Axle Vehicles	8	75	12	95	8	3	5	16	5	55	0	60	14	4	8	26	197
% 3 Axle Vehicles	11.6	7.6	4.3	7.1	2	0.7	8.8	1.8	1.4	6.6	0	4.9	7.5	2	6.3	5	4.9
4+ Axle Trucks	13	132	19	164	86	32	7	125	26	118	17	161	18	31	19	68	518
% 4+ Axle Trucks	18.8	13.3	6.9	12.3	21.9	7	12.3	13.8	7.5	14.2	28.8	13	9.6	15.3	15.1	13.2	13

	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	6	118	30	154	**78**	44	9	131	40	120	5	165	**35**	26	11	72	522
07:30 AM	**13**	**172**	**52**	**237**	54	85	7	146	63	**135**	4	**202**	22	25	15	62	**647**
07:45 AM	10	100	45	155	52	**103**	9	**164**	**78**	106	**11**	195	31	25	**21**	**77**	591
08:00 AM	7	155	31	193	49	53	**11**	113	48	102	10	160	21	**29**	17	67	533
Total Volume	36	545	158	739	233	285	36	554	229	463	30	722	109	105	64	278	2293
% App. Total	4.9	73.7	21.4		42.1	51.4	6.5		31.7	64.1	4.2		39.2	37.8	23		
PHF	.692	.792	.760	.780	.747	.692	.818	.845	.734	.857	.682	.894	.779	.905	.762	.903	.886

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	**13**	**172**	**52**	**237**	**78**	44	9	131	40	120	5	165	**35**	26	11	72
+15 mins.	10	100	45	155	54	85	7	146	63	**135**	4	**202**	22	25	15	62
+30 mins.	7	155	31	193	52	**103**	9	**164**	**78**	106	**11**	195	31	25	**21**	**77**
+45 mins.	12	119	43	174	49	53	**11**	113	48	102	10	160	21	**29**	17	67
Total Volume	42	546	171	759	233	285	36	554	229	463	30	722	109	105	64	278
% App. Total	5.5	71.9	22.5		42.1	51.4	6.5		31.7	64.1	4.2		39.2	37.8	23	
PHF	.808	.794	.822	.801	.747	.692	.818	.845	.734	.857	.682	.894	.779	.905	.762	.903

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles

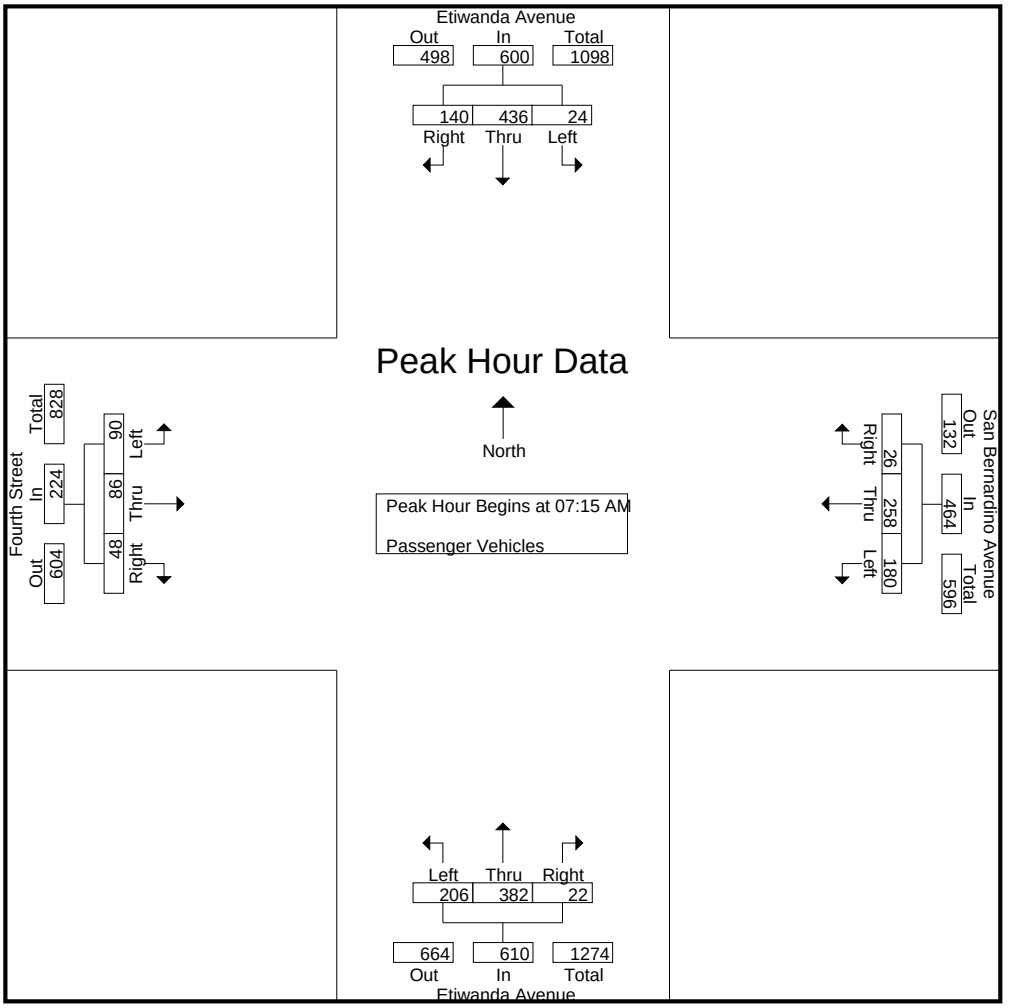
	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	3	83	18	104	36	40	6	82	29	76	5	110	21	14	15	50	346
07:15 AM	3	96	28	127	67	36	7	110	36	105	2	143	28	20	8	56	436
07:30 AM	9	132	47	188	44	79	4	127	58	113	4	175	21	22	12	55	545
07:45 AM	8	86	37	131	35	96	7	138	69	86	11	166	25	23	17	65	500
Total	23	397	130	550	182	251	24	457	192	380	22	594	95	79	52	226	1827
08:00 AM	4	122	28	154	34	47	8	89	43	78	5	126	16	21	11	48	417
08:15 AM	8	94	38	140	28	42	4	74	29	62	3	94	21	22	8	51	359
08:30 AM	4	79	20	103	28	31	3	62	21	61	4	86	7	18	16	41	292
08:45 AM	6	72	25	103	19	37	4	60	21	60	4	85	12	17	5	34	282
Total	22	367	111	500	109	157	19	285	114	261	16	391	56	78	40	174	1350
Grand Total	45	764	241	1050	291	408	43	742	306	641	38	985	151	157	92	400	3177
Apprch %	4.3	72.8	23		39.2	55	5.8		31.1	65.1	3.9		37.8	39.2	23		
Total %	1.4	24	7.6	33.1	9.2	12.8	1.4	23.4	9.6	20.2	1.2	31	4.8	4.9	2.9	12.6	

	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	3	96	28	127	**67**	36	7	110	36	105	2	143	**28**	20	8	56	436
07:30 AM	**9**	**132**	**47**	**188**	44	79	4	127	58	**113**	4	**175**	21	22	12	55	**545**
07:45 AM	8	86	37	131	35	**96**	7	**138**	**69**	86	**11**	166	25	**23**	**17**	**65**	500
08:00 AM	4	122	28	154	34	47	**8**	89	43	78	5	126	16	21	11	48	417
Total Volume	24	436	140	600	180	258	26	464	206	382	22	610	90	86	48	224	1898
% App. Total	4	72.7	23.3		38.8	55.6	5.6		33.8	62.6	3.6		40.2	38.4	21.4		
PHF	.667	.826	.745	.798	.672	.672	.813	.841	.746	.845	.500	.871	.804	.935	.706	.862	.871

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	3	96	28	127	**67**	36	7	110	36	105	2	143	**28**	20	8	56
+15 mins.	**9**	**132**	**47**	**188**	44	79	4	127	58	**113**	4	**175**	21	22	12	55
+30 mins.	8	86	37	131	35	**96**	7	**138**	**69**	86	**11**	166	25	**23**	**17**	**65**
+45 mins.	4	122	28	154	34	47	**8**	89	43	78	5	126	16	21	11	48
Total Volume	24	436	140	600	180	258	26	464	206	382	22	610	90	86	48	224
% App. Total	4	72.7	23.3		38.8	55.6	5.6		33.8	62.6	3.6		40.2	38.4	21.4	
PHF	.667	.826	.745	.798	.672	.672	.813	.841	.746	.845	.500	.871	.804	.935	.706	.862

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Large 2 Axle Vehicles

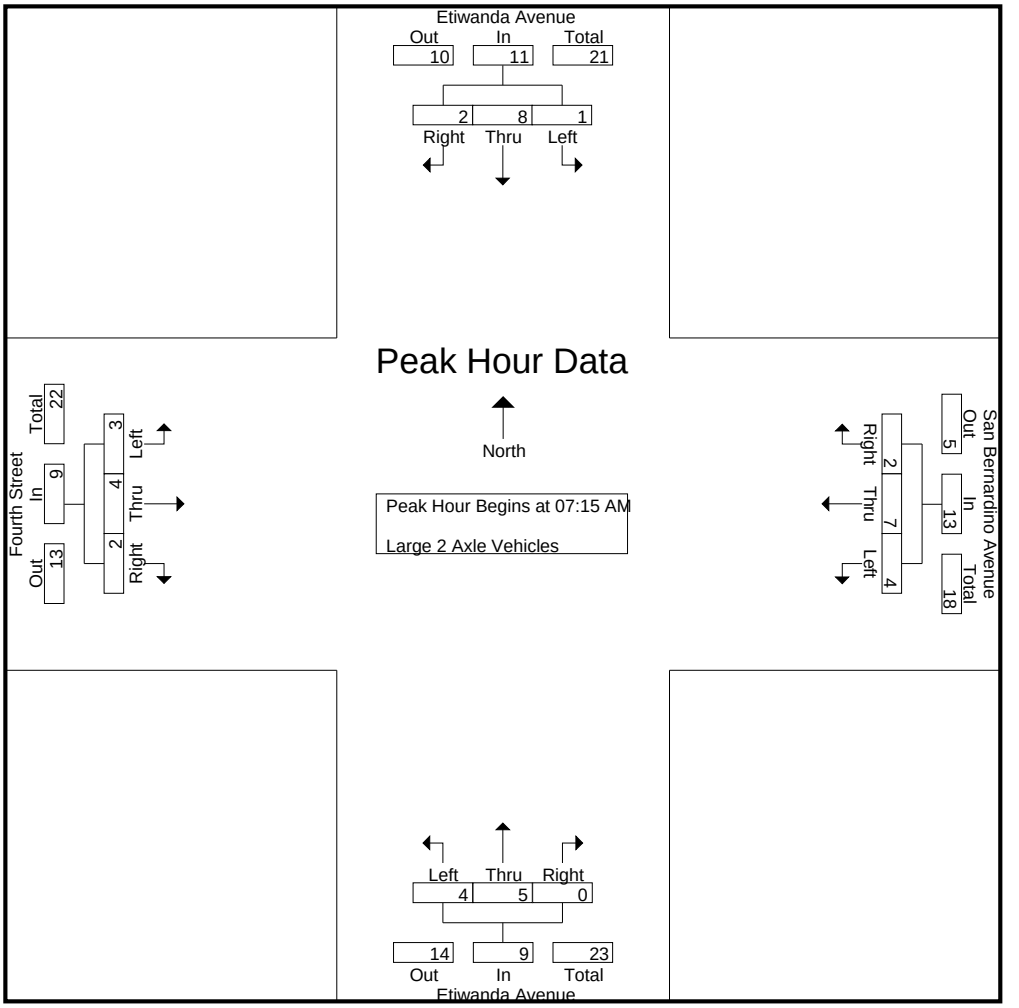
	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	4	1	5	0	3	0	3	1	0	1	2	0	2	1	3	13
07:15 AM	0	3	0	3	0	3	0	3	1	1	0	2	2	1	1	4	12
07:30 AM	1	4	1	6	0	2	0	2	0	0	0	0	0	1	0	1	9
07:45 AM	0	0	1	1	2	1	2	5	3	3	0	6	1	1	0	2	14
Total	1	11	3	15	2	9	2	13	5	4	1	10	3	5	2	10	48
08:00 AM	0	1	0	1	2	1	0	3	0	1	0	1	0	1	1	2	7
08:15 AM	1	1	0	2	2	3	0	5	0	3	2	5	0	1	1	2	14
08:30 AM	0	3	0	3	1	3	0	4	0	6	1	7	1	2	1	4	18
08:45 AM	1	2	1	4	0	0	0	0	5	3	0	8	0	2	2	4	16
Total	2	7	1	10	5	7	0	12	5	13	3	21	1	6	5	12	55
Grand Total	3	18	4	25	7	16	2	25	10	17	4	31	4	11	7	22	103
Apprch %	12	72	16		28	64	8		32.3	54.8	12.9		18.2	50	31.8		
Total %	2.9	17.5	3.9	24.3	6.8	15.5	1.9	24.3	9.7	16.5	3.9	30.1	3.9	10.7	6.8	21.4	

	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	3	0	3	0	**3**	0	3	1	1	0	2	**2**	**1**	**1**	**4**	12
07:30 AM	**1**	**4**	**1**	**6**	0	2	0	2	0	0	0	0	0	1	0	1	9
07:45 AM	0	0	1	1	**2**	1	**2**	**5**	**3**	**3**	0	**6**	1	1	0	2	**14**
08:00 AM	0	1	0	1	2	1	0	3	0	1	0	1	0	1	1	2	7
Total Volume	1	8	2	11	4	7	2	13	4	5	0	9	3	4	2	9	42
% App. Total	9.1	72.7	18.2		30.8	53.8	15.4		44.4	55.6	0		33.3	44.4	22.2		
PHF	.250	.500	.500	.458	.500	.583	.250	.650	.333	.417	.000	.375	.375	1.00	.500	.563	.750

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	3	0	3	0	**3**	0	3	1	1	0	2	**2**	**1**	**1**	**4**
+15 mins.	**1**	**4**	**1**	**6**	0	2	0	2	0	0	0	0	0	1	0	1
+30 mins.	0	0	1	1	**2**	1	**2**	**5**	**3**	**3**	0	**6**	1	1	0	2
+45 mins.	0	1	0	1	2	1	0	3	0	1	0	1	0	1	1	2
Total Volume	1	8	2	11	4	7	2	13	4	5	0	9	3	4	2	9
% App. Total	9.1	72.7	18.2		30.8	53.8	15.4		44.4	55.6	0		33.3	44.4	22.2	
PHF	.250	.500	.500	.458	.500	.583	.250	.650	.333	.417	.000	.375	.375	1.000	.500	.563

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 3 Axle Vehicles

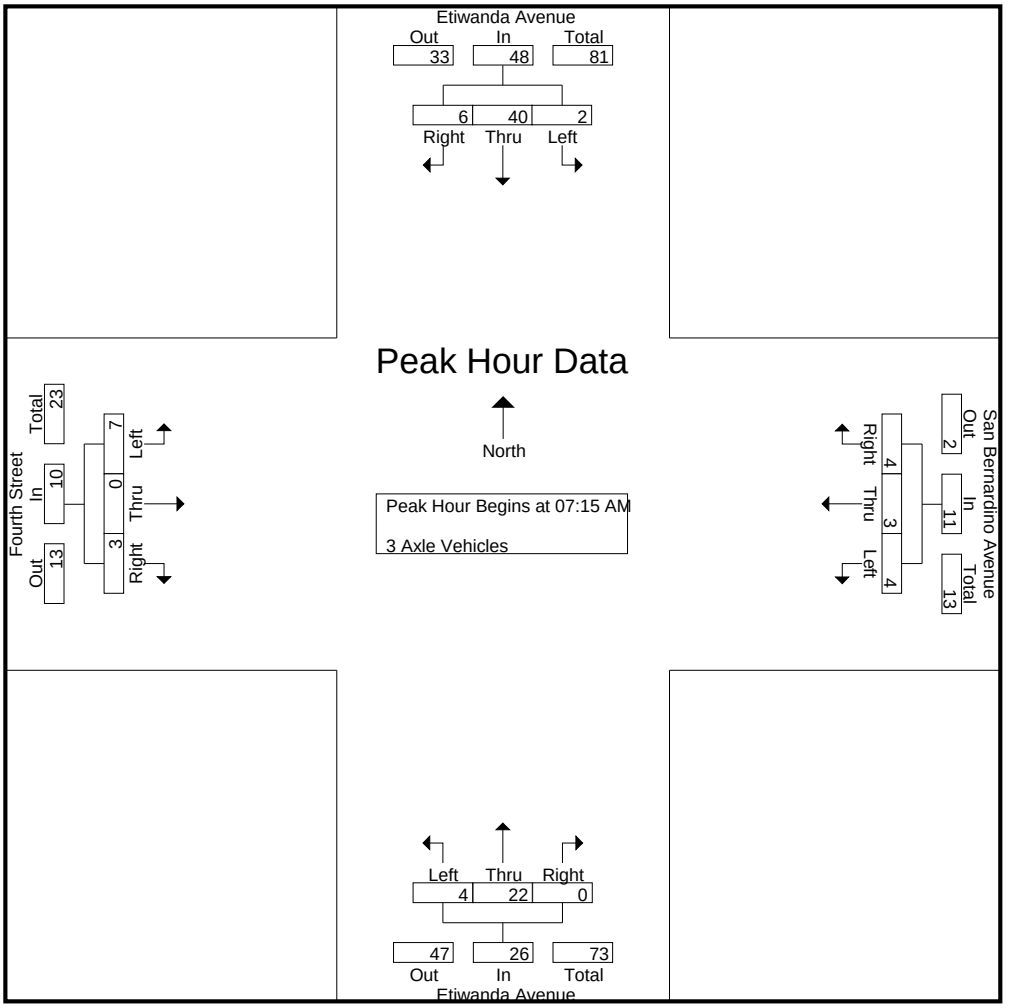
	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	4	8	1	13	0	0	0	0	0	6	0	6	1	3	1	5	24
07:15 AM	0	6	1	7	0	1	1	2	1	3	0	4	2	0	0	2	15
07:30 AM	1	13	3	17	0	0	1	1	0	7	0	7	1	0	0	1	26
07:45 AM	0	4	1	5	3	1	0	4	1	5	0	6	1	0	0	1	16
Total	5	31	6	42	3	2	2	7	2	21	0	23	5	3	1	9	81
08:00 AM	1	17	1	19	1	1	2	4	2	7	0	9	3	0	3	6	38
08:15 AM	1	8	3	12	1	0	0	1	0	6	0	6	2	0	1	3	22
08:30 AM	1	11	1	13	2	0	0	2	0	10	0	10	2	0	3	5	30
08:45 AM	0	8	1	9	1	0	1	2	1	11	0	12	2	1	0	3	26
Total	3	44	6	53	5	1	3	9	3	34	0	37	9	1	7	17	116
Grand Total	8	75	12	95	8	3	5	16	5	55	0	60	14	4	8	26	197
Apprch %	8.4	78.9	12.6		50	18.8	31.2		8.3	91.7	0		53.8	15.4	30.8		
Total %	4.1	38.1	6.1	48.2	4.1	1.5	2.5	8.1	2.5	27.9	0	30.5	7.1	2	4.1	13.2	

	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	6	1	7	0	**1**	1	2	1	3	0	4	2	0	0	2	15
07:30 AM	**1**	13	**3**	17	0	0	1	1	0	**7**	0	7	1	0	0	1	26
07:45 AM	0	4	1	5	**3**	1	0	**4**	1	5	0	6	1	0	0	1	16
08:00 AM	1	**17**	1	**19**	1	1	**2**	4	**2**	7	0	**9**	**3**	0	**3**	**6**	**38**
Total Volume	2	40	6	48	4	3	4	11	4	22	0	26	7	0	3	10	95
% App. Total	4.2	83.3	12.5		36.4	27.3	36.4		15.4	84.6	0		70	0	30		
PHF	.500	.588	.500	.632	.333	.750	.500	.688	.500	.786	.000	.722	.583	.000	.250	.417	.625

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth AM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	6	1	7	0	**1**	1	2	1	3	0	4	2	0	0	2
+15 mins.	**1**	13	**3**	17	0	0	1	1	0	**7**	0	7	1	0	0	1
+30 mins.	0	4	1	5	**3**	1	0	**4**	1	5	0	6	1	0	0	1
+45 mins.	1	**17**	1	**19**	1	1	**2**	4	**2**	7	0	**9**	**3**	0	**3**	**6**
Total Volume	2	40	6	48	4	3	4	11	4	22	0	26	7	0	3	10
% App. Total	4.2	83.3	12.5		36.4	27.3	36.4		15.4	84.6	0		70	0	30	
PHF	.500	.588	.500	.632	.333	.750	.500	.688	.500	.786	.000	.722	.583	.000	.250	.417

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City of Rancho Cucamonga
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Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 4+ Axle Trucks

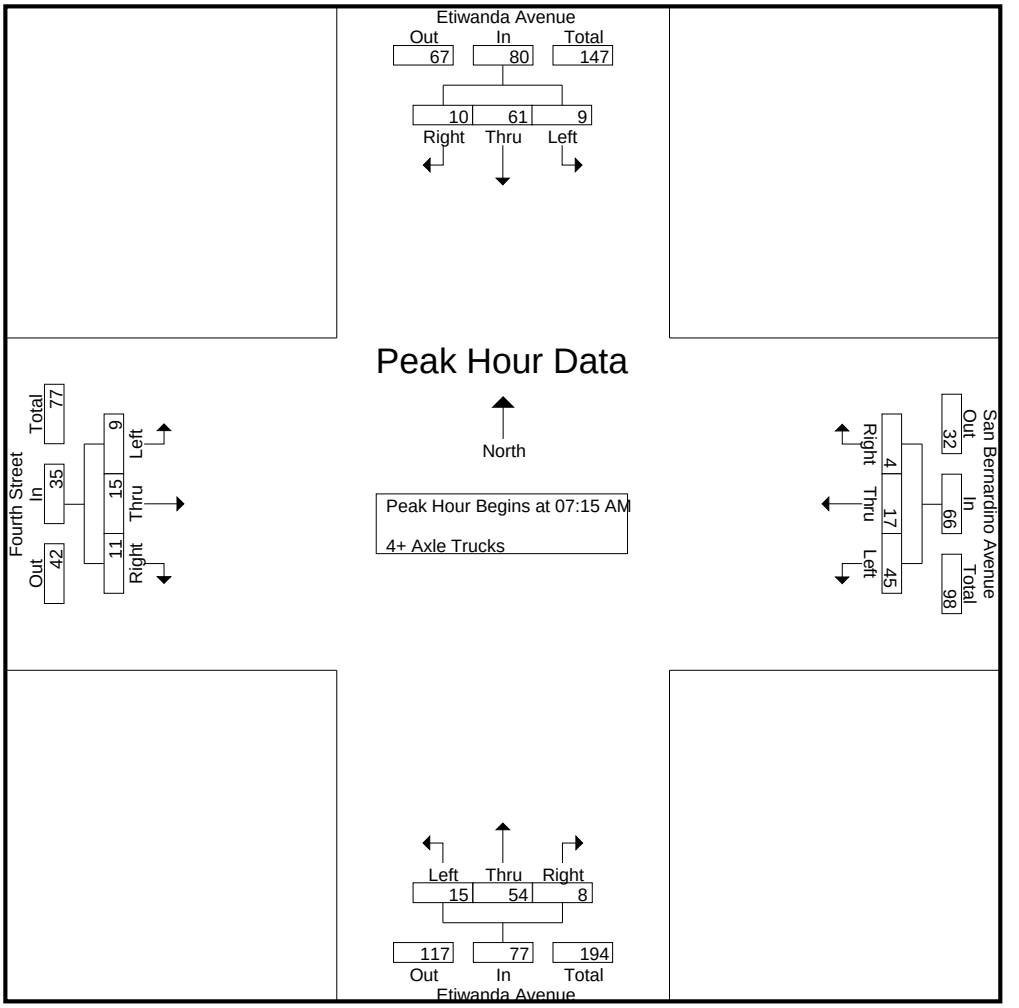
	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	1	17	2	20	17	2	1	20	3	20	4	27	1	3	0	4	71
07:15 AM	3	13	1	17	11	4	1	16	2	11	3	16	3	5	2	10	59
07:30 AM	2	23	1	26	10	4	2	16	5	15	0	20	0	2	3	5	67
07:45 AM	2	10	6	18	12	5	0	17	5	12	0	17	4	1	4	9	61
Total	8	63	10	81	50	15	4	69	15	58	7	80	8	11	9	28	258
08:00 AM	2	15	2	19	12	4	1	17	3	16	5	24	2	7	2	11	71
08:15 AM	2	16	2	20	9	8	0	17	4	14	1	19	3	2	2	7	63
08:30 AM	1	19	3	23	9	3	1	13	2	12	2	16	2	3	5	10	62
08:45 AM	0	19	2	21	6	2	1	9	2	18	2	22	3	8	1	12	64
Total	5	69	9	83	36	17	3	56	11	60	10	81	10	20	10	40	260
Grand Total	13	132	19	164	86	32	7	125	26	118	17	161	18	31	19	68	518
Apprch %	7.9	80.5	11.6		68.8	25.6	5.6		16.1	73.3	10.6		26.5	45.6	27.9		
Total %	2.5	25.5	3.7	31.7	16.6	6.2	1.4	24.1	5	22.8	3.3	31.1	3.5	6	3.7	13.1	

	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	**3**	13	1	17	11	4	1	16	2	11	3	16	3	5	2	10	59
07:30 AM	2	**23**	1	**26**	10	4	**2**	16	**5**	15	0	20	0	2	3	5	67
07:45 AM	2	10	**6**	18	**12**	**5**	0	**17**	5	12	0	17	**4**	1	**4**	9	61
08:00 AM	2	15	2	19	12	4	1	17	3	**16**	**5**	**24**	2	**7**	2	**11**	**71**
Total Volume	9	61	10	80	45	17	4	66	15	54	8	77	9	15	11	35	258
% App. Total	11.2	76.2	12.5		68.2	25.8	6.1		19.5	70.1	10.4		25.7	42.9	31.4		
PHF	.750	.663	.417	.769	.938	.850	.500	.971	.750	.844	.400	.802	.563	.536	.688	.795	.908

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth AM
Site Code : 22520079
Start Date : 2/5/2020
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Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	**3**	13	1	17	11	4	1	16	2	11	3	16	3	5	2	10
+15 mins.	2	**23**	1	**26**	10	4	**2**	16	**5**	15	0	20	0	2	3	5
+30 mins.	2	10	**6**	18	**12**	**5**	0	**17**	5	12	0	17	**4**	1	**4**	9
+45 mins.	2	15	2	19	12	4	1	17	3	**16**	**5**	**24**	2	**7**	2	**11**
Total Volume	9	61	10	80	45	17	4	66	15	54	8	77	9	15	11	35
% App. Total	11.2	76.2	12.5		68.2	25.8	6.1		19.5	70.1	10.4		25.7	42.9	31.4	
PHF	.750	.663	.417	.769	.938	.850	.500	.971	.750	.844	.400	.802	.563	.536	.688	.795

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

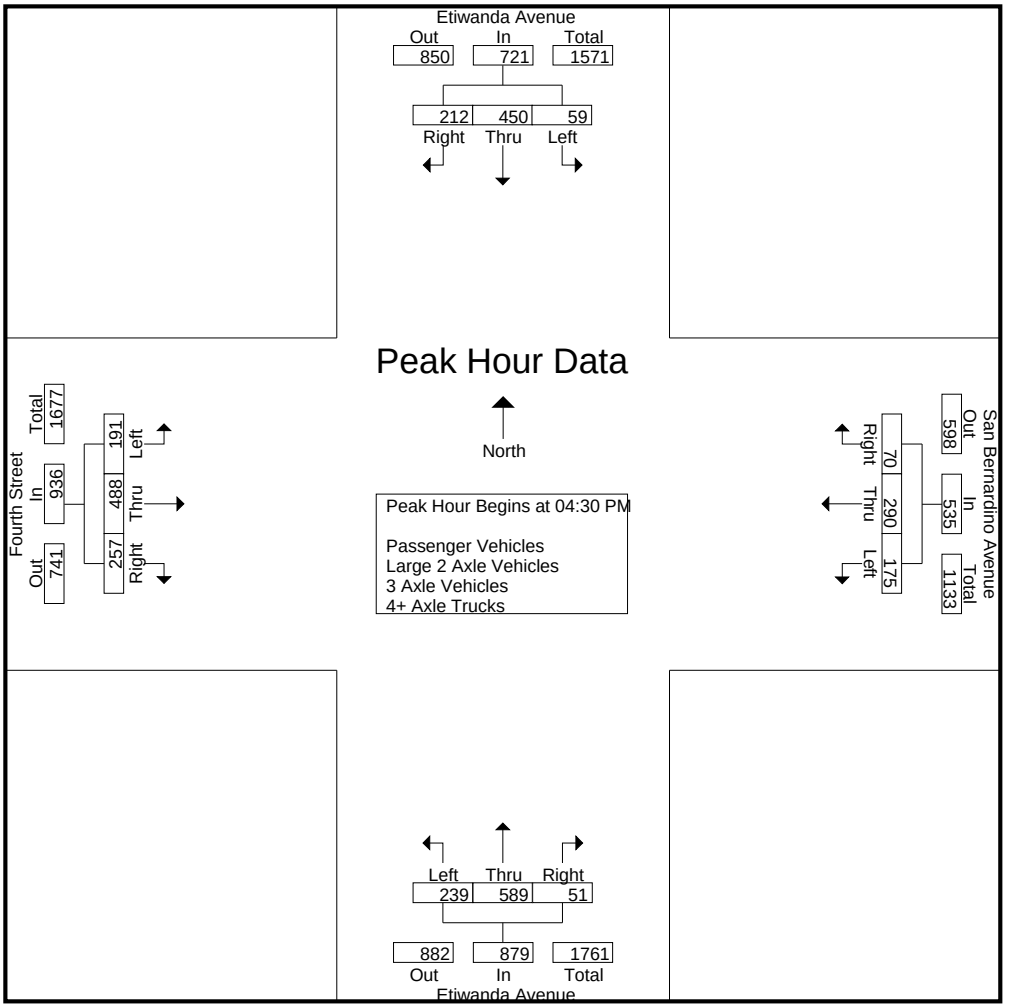
	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	12	117	47	176	34	45	12	91	51	154	20	225	44	80	46	170	662
04:15 PM	9	103	49	161	46	62	10	118	61	135	16	212	35	98	61	194	685
04:30 PM	8	115	68	191	40	68	21	129	45	145	13	203	43	115	52	210	733
04:45 PM	23	108	49	180	31	65	18	114	69	148	14	231	55	111	55	221	746
Total	52	443	213	708	151	240	61	452	226	582	63	871	177	404	214	795	2826
05:00 PM	13	121	49	183	41	81	12	134	67	150	14	231	35	111	71	217	765
05:15 PM	15	106	46	167	63	76	19	158	58	146	10	214	58	151	79	288	827
05:30 PM	11	86	36	133	37	62	17	116	58	165	17	240	51	92	57	200	689
05:45 PM	9	72	29	110	28	52	10	90	56	159	11	226	41	98	34	173	599
Total	48	385	160	593	169	271	58	498	239	620	52	911	185	452	241	878	2880
Grand Total	100	828	373	1301	320	511	119	950	465	1202	115	1782	362	856	455	1673	5706
Apprch %	7.7	63.6	28.7		33.7	53.8	12.5		26.1	67.5	6.5		21.6	51.2	27.2		
Total %	1.8	14.5	6.5	22.8	5.6	9	2.1	16.6	8.1	21.1	2	31.2	6.3	15	8	29.3	
Passenger Vehicles	69	721	357	1147	269	468	114	851	423	1075	88	1586	348	809	390	1547	5131
% Passenger Vehicles	69	87.1	95.7	88.2	84.1	91.6	95.8	89.6	91	89.4	76.5	89	96.1	94.5	85.7	92.5	89.9
Large 2 Axle Vehicles	2	13	6	21	8	19	1	28	16	21	3	40	2	19	16	37	126
% Large 2 Axle Vehicles	2	1.6	1.6	1.6	2.5	3.7	0.8	2.9	3.4	1.7	2.6	2.2	0.6	2.2	3.5	2.2	2.2
3 Axle Vehicles	26	30	9	65	2	3	1	6	10	37	6	53	10	9	8	27	151
% 3 Axle Vehicles	26	3.6	2.4	5	0.6	0.6	0.8	0.6	2.2	3.1	5.2	3	2.8	1.1	1.8	1.6	2.6
4+ Axle Trucks	3	64	1	68	41	21	3	65	16	69	18	103	2	19	41	62	298
% 4+ Axle Trucks	3	7.7	0.3	5.2	12.8	4.1	2.5	6.8	3.4	5.7	15.7	5.8	0.6	2.2	9	3.7	5.2

	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	8	115	**68**	**191**	40	68	**21**	129	45	145	13	203	43	115	52	210	733
04:45 PM	**23**	108	49	180	31	65	18	114	**69**	148	**14**	**231**	55	111	55	221	746
05:00 PM	13	**121**	49	183	41	**81**	12	134	67	**150**	14	231	35	111	71	217	765
05:15 PM	15	106	46	167	**63**	76	19	**158**	58	146	10	214	**58**	**151**	**79**	**288**	**827**
Total Volume	59	450	212	721	175	290	70	535	239	589	51	879	191	488	257	936	3071
% App. Total	8.2	62.4	29.4		32.7	54.2	13.1		27.2	67	5.8		20.4	52.1	27.5		
PHF	.641	.930	.779	.944	.694	.895	.833	.847	.866	.982	.911	.951	.823	.808	.813	.813	.928

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth PM
Site Code : 22520079
Start Date : 2/5/2020
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Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:45 PM				04:30 PM			
+0 mins.	8	115	**68**	**191**	40	68	**21**	129	**69**	148	14	231	43	115	52	210
+15 mins.	**23**	108	49	180	31	65	18	114	67	150	14	231	55	111	55	221
+30 mins.	13	**121**	49	183	41	**81**	12	134	58	146	10	214	35	111	71	217
+45 mins.	15	106	46	167	**63**	76	19	**158**	58	**165**	**17**	**240**	**58**	**151**	**79**	**288**
Total Volume	59	450	212	721	175	290	70	535	252	609	55	916	191	488	257	936
% App. Total	8.2	62.4	29.4		32.7	54.2	13.1		27.5	66.5	6		20.4	52.1	27.5	
PHF	.641	.930	.779	.944	.694	.895	.833	.847	.913	.923	.809	.954	.823	.808	.813	.813

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
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Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth PM
Site Code : 22520079
Start Date : 2/5/2020
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Groups Printed- Passenger Vehicles

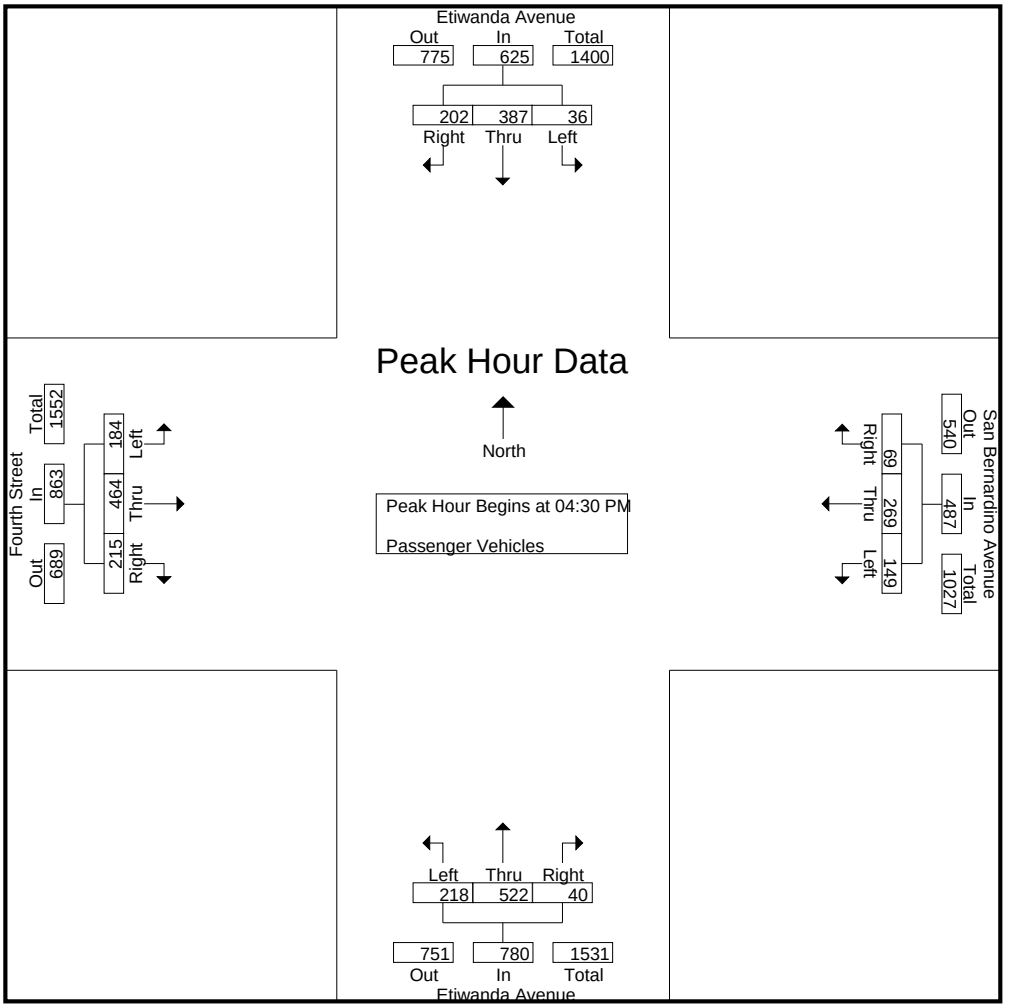
	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	11	105	45	161	31	37	12	80	47	134	14	195	41	75	40	156	592
04:15 PM	6	89	47	142	36	58	10	104	55	120	12	187	32	92	54	178	611
04:30 PM	5	94	63	162	35	65	20	120	41	130	8	179	41	108	41	190	651
04:45 PM	12	91	46	149	26	60	18	104	68	135	11	214	52	107	51	210	677
Total	34	379	201	614	128	220	60	408	211	519	45	775	166	382	186	734	2531
05:00 PM	8	104	47	159	35	76	12	123	55	128	13	196	34	105	56	195	673
05:15 PM	11	98	46	155	53	68	19	140	54	129	8	191	57	144	67	268	754
05:30 PM	10	79	35	124	30	57	16	103	52	153	14	219	51	87	51	189	635
05:45 PM	6	61	28	95	23	47	7	77	51	146	8	205	40	91	30	161	538
Total	35	342	156	533	141	248	54	443	212	556	43	811	182	427	204	813	2600
Grand Total	69	721	357	1147	269	468	114	851	423	1075	88	1586	348	809	390	1547	5131
Apprch %	6	62.9	31.1		31.6	55	13.4		26.7	67.8	5.5		22.5	52.3	25.2		
Total %	1.3	14.1	7	22.4	5.2	9.1	2.2	16.6	8.2	21	1.7	30.9	6.8	15.8	7.6	30.2	

	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	5	94	**63**	**162**	35	65	**20**	120	41	130	8	179	41	108	41	190	651
04:45 PM	**12**	91	46	149	26	60	18	104	**68**	**135**	11	**214**	52	107	51	210	677
05:00 PM	8	**104**	47	159	35	**76**	12	123	55	128	**13**	196	34	105	56	195	673
05:15 PM	11	98	46	155	**53**	68	19	**140**	54	129	8	191	**57**	**144**	**67**	**268**	**754**
Total Volume	36	387	202	625	149	269	69	487	218	522	40	780	184	464	215	863	2755
% App. Total	5.8	61.9	32.3		30.6	55.2	14.2		27.9	66.9	5.1		21.3	53.8	24.9		
PHF	.750	.930	.802	.965	.703	.885	.863	.870	.801	.967	.769	.911	.807	.806	.802	.805	.913

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City of Rancho Cucamonga
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E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	5	94	**63**	**162**	35	65	**20**	120	41	130	8	179	41	108	41	190
+15 mins.	**12**	91	46	149	26	60	18	104	**68**	**135**	11	**214**	52	107	51	210
+30 mins.	8	**104**	47	159	35	**76**	12	123	55	128	**13**	196	34	105	56	195
+45 mins.	11	98	46	155	**53**	68	19	**140**	54	129	8	191	**57**	**144**	**67**	**268**
Total Volume	36	387	202	625	149	269	69	487	218	522	40	780	184	464	215	863
% App. Total	5.8	61.9	32.3		30.6	55.2	14.2		27.9	66.9	5.1		21.3	53.8	24.9	
PHF	.750	.930	.802	.965	.703	.885	.863	.870	.801	.967	.769	.911	.807	.806	.802	.805

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N/S: Etiwanda Avenue
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Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Large 2 Axle Vehicles

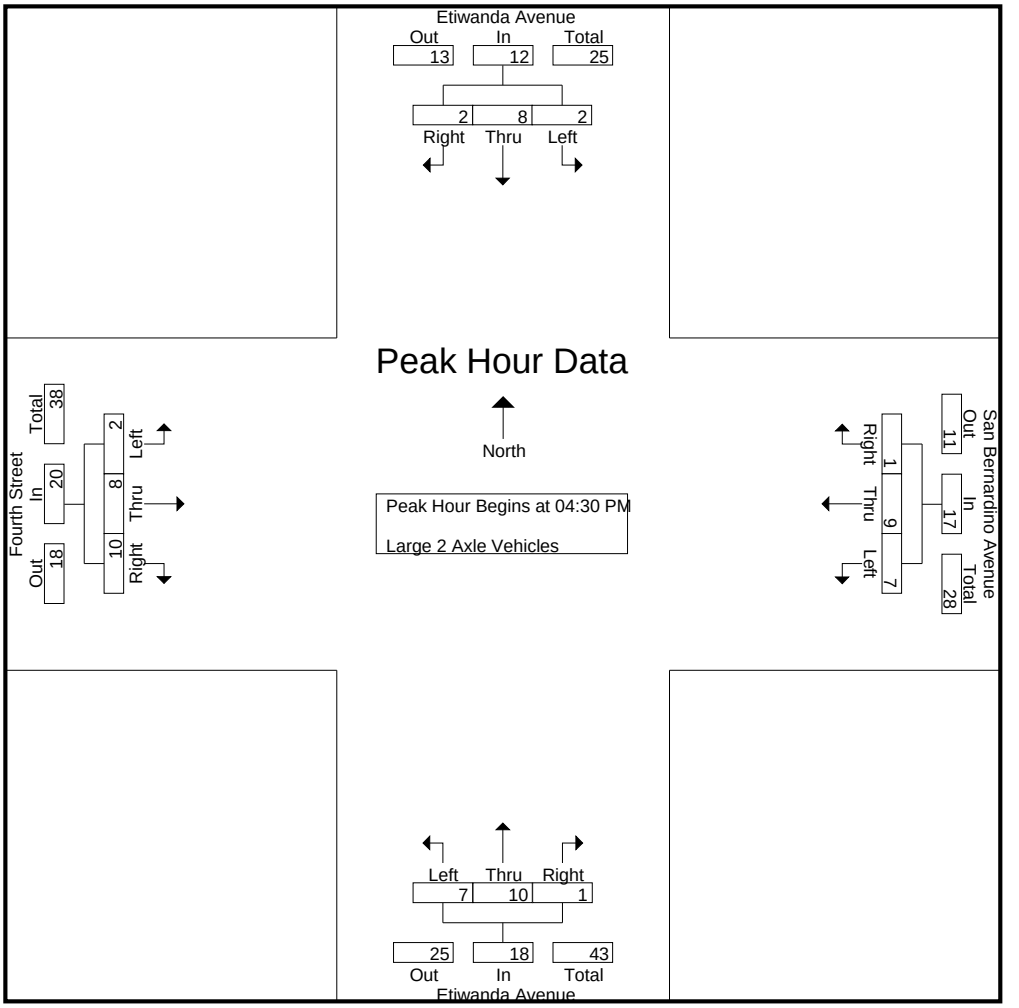
	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	2	2	0	4	0	4	3	2	1	6	0	3	1	4	16
04:15 PM	0	2	0	2	1	2	0	3	2	5	0	7	0	2	4	6	18
04:30 PM	1	1	1	3	0	1	1	2	1	2	0	3	0	1	4	5	13
04:45 PM	0	4	1	5	2	3	0	5	0	2	1	3	2	2	2	6	19
Total	1	7	4	12	3	10	1	14	6	11	2	19	2	8	11	21	66
05:00 PM	0	2	0	2	1	1	0	2	6	2	0	8	0	2	3	5	17
05:15 PM	1	1	0	2	4	4	0	8	0	4	0	4	0	3	1	4	18
05:30 PM	0	1	1	2	0	3	0	3	3	1	1	5	0	1	1	2	12
05:45 PM	0	2	1	3	0	1	0	1	1	3	0	4	0	5	0	5	13
Total	1	6	2	9	5	9	0	14	10	10	1	21	0	11	5	16	60
Grand Total	2	13	6	21	8	19	1	28	16	21	3	40	2	19	16	37	126
Apprch %	9.5	61.9	28.6		28.6	67.9	3.6		40	52.5	7.5		5.4	51.4	43.2		
Total %	1.6	10.3	4.8	16.7	6.3	15.1	0.8	22.2	12.7	16.7	2.4	31.7	1.6	15.1	12.7	29.4	

	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	**1**	1	**1**	3	0	1	**1**	2	1	2	0	3	0	1	**4**	5	13
04:45 PM	0	**4**	1	**5**	2	3	0	5	0	2	**1**	3	**2**	2	2	**6**	**19**
05:00 PM	0	2	0	2	1	1	0	2	**6**	2	0	**8**	0	2	3	5	17
05:15 PM	1	1	0	2	**4**	**4**	0	**8**	0	**4**	0	4	0	**3**	1	4	18
Total Volume	2	8	2	12	7	9	1	17	7	10	1	18	2	8	10	20	67
% App. Total	16.7	66.7	16.7		41.2	52.9	5.9		38.9	55.6	5.6		10	40	50		
PHF	.500	.500	.500	.600	.438	.563	.250	.531	.292	.625	.250	.563	.250	.667	.625	.833	.882

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth PM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	**1**	1	**1**	3	0	1	**1**	2	1	2	0	3	0	1	**4**	5
+15 mins.	0	**4**	1	**5**	2	3	0	5	0	2	**1**	3	**2**	2	2	**6**
+30 mins.	0	2	0	2	1	1	0	2	**6**	2	0	**8**	0	2	3	5
+45 mins.	1	1	0	2	**4**	**4**	0	**8**	0	**4**	0	4	0	**3**	1	4
Total Volume	2	8	2	12	7	9	1	17	7	10	1	18	2	8	10	20
% App. Total	16.7	66.7	16.7		41.2	52.9	5.9		38.9	55.6	5.6		10	40	50	
PHF	.500	.500	.500	.600	.438	.563	.250	.531	.292	.625	.250	.563	.250	.667	.625	.833

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Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 3 Axle Vehicles

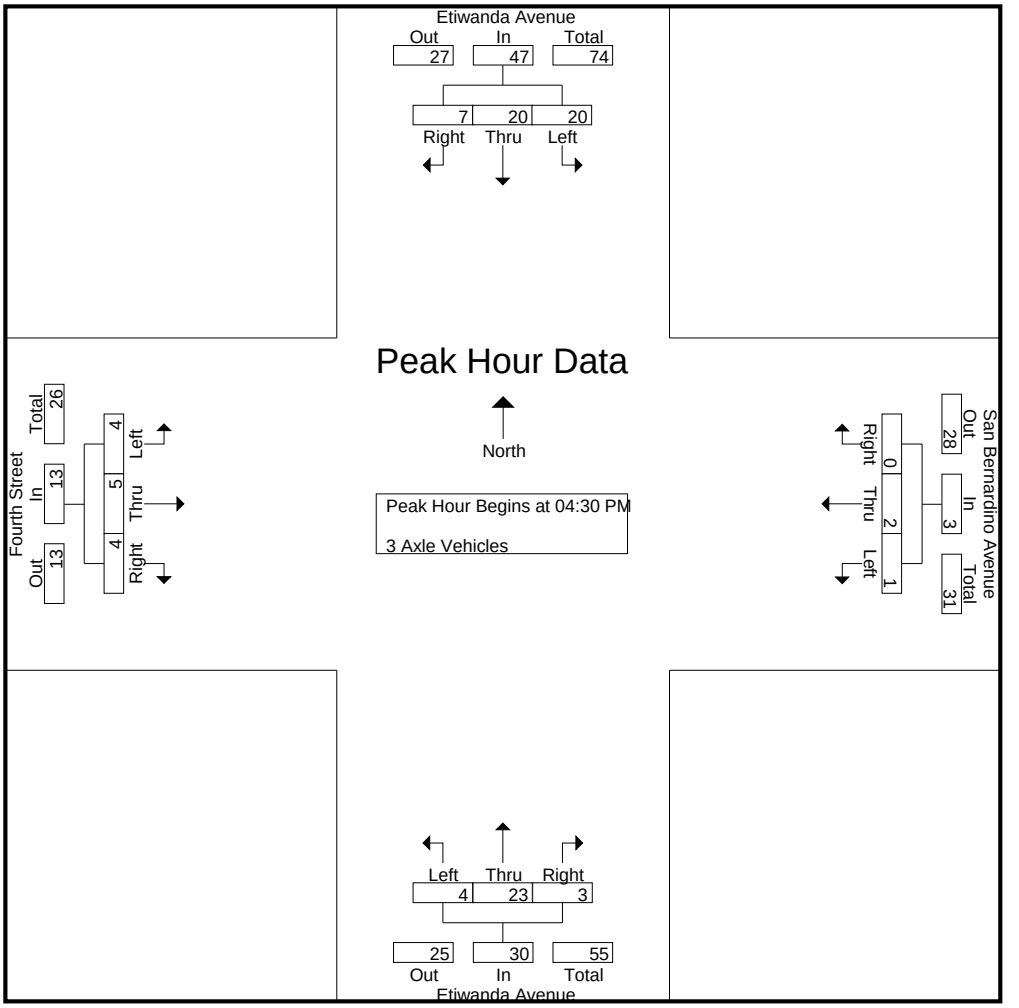
	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	5	0	6	0	0	0	0	0	5	1	6	3	0	0	3	15
04:15 PM	2	3	2	7	0	0	0	0	3	3	1	7	2	1	1	4	18
04:30 PM	1	7	4	12	0	1	0	1	1	6	1	8	2	2	1	5	26
04:45 PM	11	6	1	18	0	0	0	0	0	3	1	4	1	1	0	2	24
Total	15	21	7	43	0	1	0	1	4	17	4	25	8	4	2	14	83
05:00 PM	5	4	2	11	0	1	0	1	2	10	0	12	1	1	0	2	26
05:15 PM	3	3	0	6	1	0	0	1	1	4	1	6	0	1	3	4	17
05:30 PM	1	0	0	1	0	0	0	0	1	3	1	5	0	2	1	3	9
05:45 PM	2	2	0	4	1	1	1	3	2	3	0	5	1	1	2	4	16
Total	11	9	2	22	2	2	1	5	6	20	2	28	2	5	6	13	68
Grand Total	26	30	9	65	2	3	1	6	10	37	6	53	10	9	8	27	151
Apprch %	40	46.2	13.8		33.3	50	16.7		18.9	69.8	11.3		37	33.3	29.6		
Total %	17.2	19.9	6	43	1.3	2	0.7	4	6.6	24.5	4	35.1	6.6	6	5.3	17.9	

	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	1	**7**	**4**	12	0	**1**	0	**1**	1	6	**1**	8	**2**	**2**	1	**5**	**26**
04:45 PM	**11**	6	1	**18**	0	0	0	0	0	3	1	4	1	1	0	2	24
05:00 PM	5	4	2	11	0	1	0	1	**2**	**10**	0	**12**	1	1	0	2	26
05:15 PM	3	3	0	6	**1**	0	0	1	1	4	1	6	0	1	**3**	4	17
Total Volume	20	20	7	47	1	2	0	3	4	23	3	30	4	5	4	13	93
% App. Total	42.6	42.6	14.9		33.3	66.7	0		13.3	76.7	10		30.8	38.5	30.8		
PHF	.455	.714	.438	.653	.250	.500	.000	.750	.500	.575	.750	.625	.500	.625	.333	.650	.894

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth PM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	1	**7**	**4**	12	0	**1**	0	**1**	1	6	**1**	8	**2**	**2**	1	**5**
+15 mins.	**11**	6	1	**18**	0	0	0	0	0	3	1	4	1	1	0	2
+30 mins.	5	4	2	11	0	1	0	1	**2**	**10**	0	**12**	1	1	0	2
+45 mins.	3	3	0	6	**1**	0	0	1	1	4	1	6	0	1	**3**	4
Total Volume	20	20	7	47	1	2	0	3	4	23	3	30	4	5	4	13
% App. Total	42.6	42.6	14.9		33.3	66.7	0		13.3	76.7	10		30.8	38.5	30.8	
PHF	.455	.714	.438	.653	.250	.500	.000	.750	.500	.575	.750	.625	.500	.625	.333	.650

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 4+ Axle Trucks

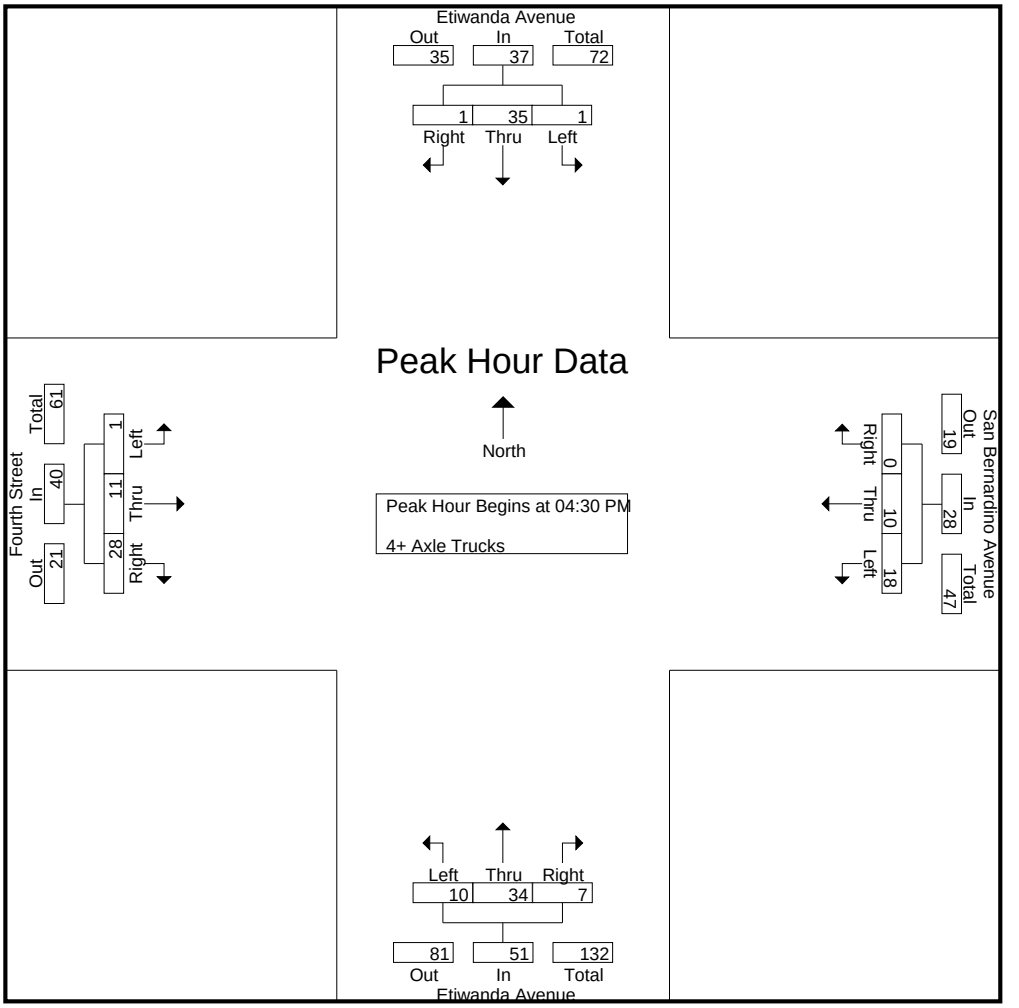
	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	7	0	7	3	4	0	7	1	13	4	18	0	2	5	7	39
04:15 PM	1	9	0	10	9	2	0	11	1	7	3	11	1	3	2	6	38
04:30 PM	1	13	0	14	5	1	0	6	2	7	4	13	0	4	6	10	43
04:45 PM	0	7	1	8	3	2	0	5	1	8	1	10	0	1	2	3	26
Total	2	36	1	39	20	9	0	29	5	35	12	52	1	10	15	26	146
05:00 PM	0	11	0	11	5	3	0	8	4	10	1	15	0	3	12	15	49
05:15 PM	0	4	0	4	5	4	0	9	3	9	1	13	1	3	8	12	38
05:30 PM	0	6	0	6	7	2	1	10	2	8	1	11	0	2	4	6	33
05:45 PM	1	7	0	8	4	3	2	9	2	7	3	12	0	1	2	3	32
Total	1	28	0	29	21	12	3	36	11	34	6	51	1	9	26	36	152
Grand Total	3	64	1	68	41	21	3	65	16	69	18	103	2	19	41	62	298
Apprch %	4.4	94.1	1.5		63.1	32.3	4.6		15.5	67	17.5		3.2	30.6	66.1		
Total %	1	21.5	0.3	22.8	13.8	7	1	21.8	5.4	23.2	6	34.6	0.7	6.4	13.8	20.8	

	Etiwanda Avenue Southbound				San Bernardino Avenue Westbound				Etiwanda Avenue Northbound				Fourth Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	**1**	**13**	0	**14**	**5**	1	0	6	2	7	**4**	13	0	**4**	6	10	43
04:45 PM	0	7	**1**	8	3	2	0	5	1	8	1	10	0	1	2	3	26
05:00 PM	0	11	0	11	5	3	0	8	**4**	**10**	1	**15**	0	3	**12**	**15**	**49**
05:15 PM	0	4	0	4	5	**4**	0	**9**	3	9	1	13	**1**	3	8	12	38
Total Volume	1	35	1	37	18	10	0	28	10	34	7	51	1	11	28	40	156
% App. Total	2.7	94.6	2.7		64.3	35.7	0		19.6	66.7	13.7		2.5	27.5	70		
PHF	.250	.673	.250	.661	.900	.625	.000	.778	.625	.850	.438	.850	.250	.688	.583	.667	.796

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Fourth Street/San Bernardino Avenue
Weather: Clear

File Name : 05_RNC_Etiwanda_Fourth PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	**1**	**13**	0	**14**	**5**	1	0	6	2	7	**4**	13	0	**4**	6	10
+15 mins.	0	7	**1**	8	3	2	0	5	1	8	1	10	0	1	2	3
+30 mins.	0	11	0	11	5	3	0	8	**4**	**10**	1	**15**	0	3	**12**	**15**
+45 mins.	0	4	0	4	5	**4**	0	**9**	3	9	1	13	**1**	3	8	12
Total Volume	1	35	1	37	18	10	0	28	10	34	7	51	1	11	28	40
% App. Total	2.7	94.6	2.7		64.3	35.7	0		19.6	66.7	13.7		2.5	27.5	70	
PHF	.250	.673	.250	.661	.900	.625	.000	.778	.625	.850	.438	.850	.250	.688	.583	.667

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

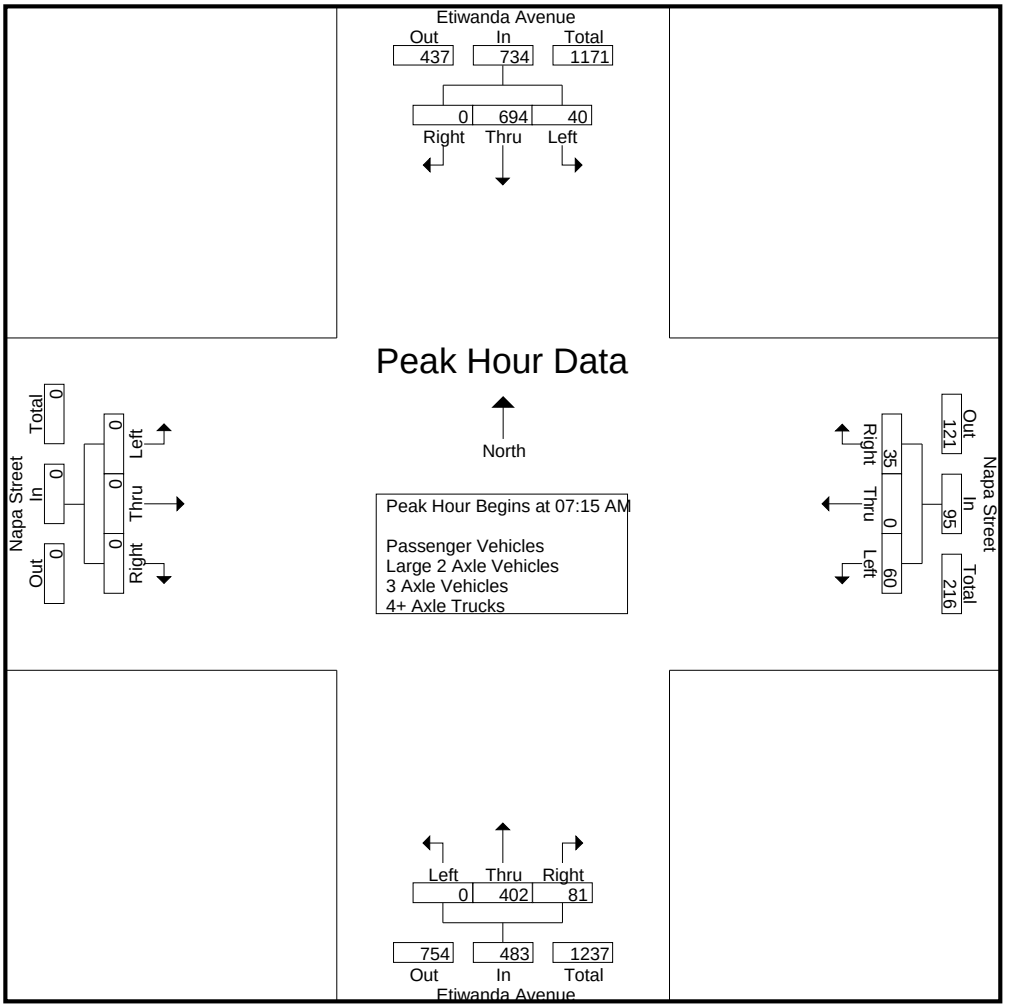
	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	9	152	0	161	14	0	8	22	0	84	20	104	0	0	0	0	287
07:15 AM	13	174	0	187	18	0	12	30	0	99	16	115	0	0	0	0	332
07:30 AM	10	219	0	229	14	0	11	25	0	103	17	120	0	0	0	0	374
07:45 AM	6	145	0	151	12	0	6	18	0	102	32	134	0	0	0	0	303
Total	38	690	0	728	58	0	37	95	0	388	85	473	0	0	0	0	1296
08:00 AM	11	156	0	167	16	0	6	22	0	98	16	114	0	0	0	0	303
08:15 AM	5	119	0	124	16	0	4	20	0	92	21	113	0	0	0	0	257
08:30 AM	6	104	0	110	12	0	9	21	0	81	26	107	0	0	0	0	238
08:45 AM	10	99	0	109	15	0	7	22	0	62	19	81	0	0	0	0	212
Total	32	478	0	510	59	0	26	85	0	333	82	415	0	0	0	0	1010
Grand Total	70	1168	0	1238	117	0	63	180	0	721	167	888	0	0	0	0	2306
Apprch %	5.7	94.3	0		65	0	35		0	81.2	18.8		0	0	0		
Total %	3	50.7	0	53.7	5.1	0	2.7	7.8	0	31.3	7.2	38.5	0	0	0	0	
Passenger Vehicles	30	959	0	989	10	0	12	22	0	602	43	645	0	0	0	0	1656
% Passenger Vehicles	42.9	82.1	0	79.9	8.5	0	19	12.2	0	83.5	25.7	72.6	0	0	0	0	71.8
Large 2 Axle Vehicles	10	61	0	71	10	0	16	26	0	26	14	40	0	0	0	0	137
% Large 2 Axle Vehicles	14.3	5.2	0	5.7	8.5	0	25.4	14.4	0	3.6	8.4	4.5	0	0	0	0	5.9
3 Axle Vehicles	20	41	0	61	52	0	18	70	0	23	55	78	0	0	0	0	209
% 3 Axle Vehicles	28.6	3.5	0	4.9	44.4	0	28.6	38.9	0	3.2	32.9	8.8	0	0	0	0	9.1
4+ Axle Trucks	10	107	0	117	45	0	17	62	0	70	55	125	0	0	0	0	304
% 4+ Axle Trucks	14.3	9.2	0	9.5	38.5	0	27	34.4	0	9.7	32.9	14.1	0	0	0	0	13.2

	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	**13**	174	0	187	**18**	0	**12**	**30**	0	99	16	115	0	0	0	0	332
07:30 AM	10	**219**	0	**229**	14	0	11	25	0	**103**	17	120	0	0	0	0	**374**
07:45 AM	6	145	0	151	12	0	6	18	0	102	**32**	**134**	0	0	0	0	303
08:00 AM	11	156	0	167	16	0	6	22	0	98	16	114	0	0	0	0	303
Total Volume	40	694	0	734	60	0	35	95	0	402	81	483	0	0	0	0	1312
% App. Total	5.4	94.6	0		63.2	0	36.8		0	83.2	16.8		0	0	0		
PHF	.769	.792	.000	.801	.833	.000	.729	.792	.000	.976	.633	.901	.000	.000	.000	.000	.877

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:00 AM				07:15 AM				07:00 AM			
+0 mins.	**13**	174	0	187	14	0	8	22	0	99	16	115	0	0	0	0
+15 mins.	10	**219**	0	**229**	**18**	0	**12**	**30**	0	**103**	17	120	0	0	0	0
+30 mins.	6	145	0	151	14	0	11	25	0	102	**32**	**134**	0	0	0	0
+45 mins.	11	156	0	167	12	0	6	18	0	98	16	114	0	0	0	0
Total Volume	40	694	0	734	58	0	37	95	0	402	81	483	0	0	0	0
% App. Total	5.4	94.6	0		61.1	0	38.9		0	83.2	16.8		0	0	0	
PHF	.769	.792	.000	.801	.806	.000	.771	.792	.000	.976	.633	.901	.000	.000	.000	.000

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles

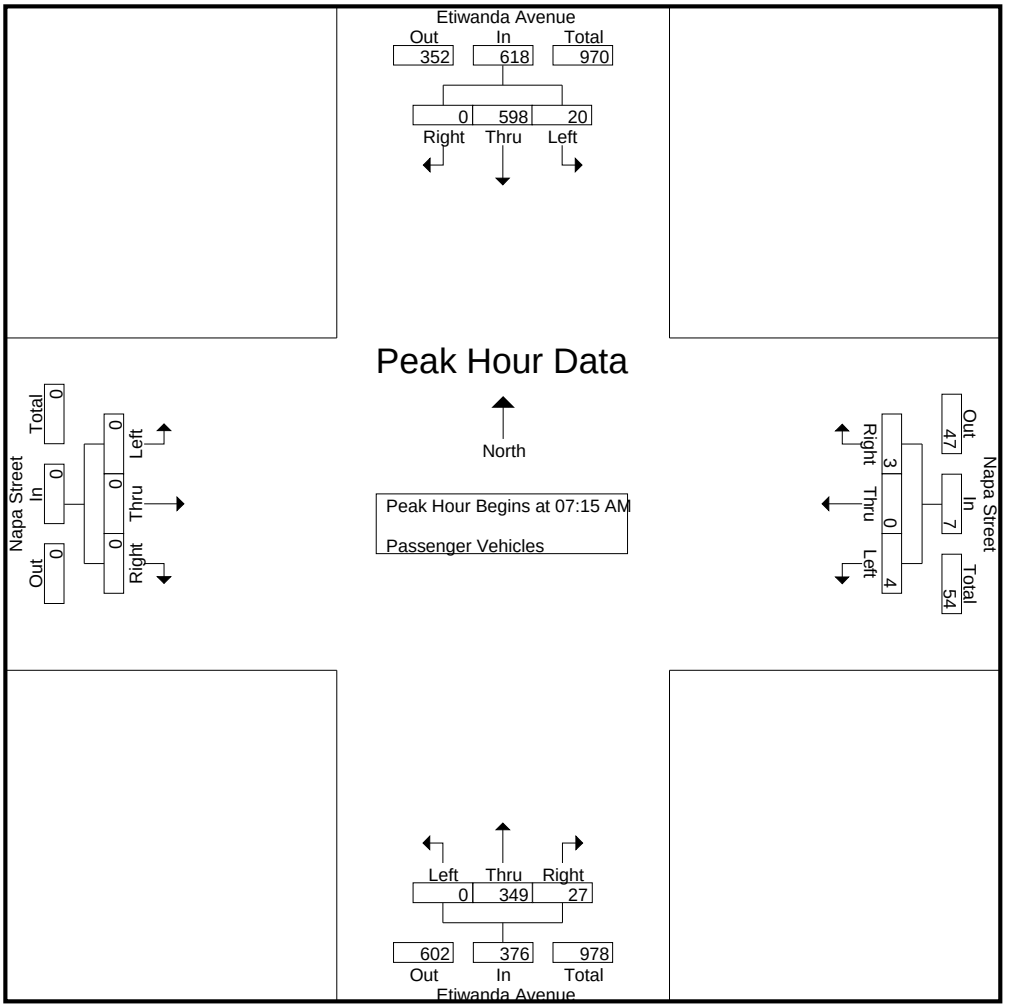
	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	4	126	0	130	2	0	3	5	0	69	2	71	0	0	0	0	206
07:15 AM	7	151	0	158	1	0	2	3	0	85	5	90	0	0	0	0	251
07:30 AM	4	192	0	196	1	0	1	2	0	92	5	97	0	0	0	0	295
07:45 AM	4	129	0	133	0	0	0	0	0	89	14	103	0	0	0	0	236
Total	19	598	0	617	4	0	6	10	0	335	26	361	0	0	0	0	988
08:00 AM	5	126	0	131	2	0	0	2	0	83	3	86	0	0	0	0	219
08:15 AM	1	95	0	96	2	0	1	3	0	75	4	79	0	0	0	0	178
08:30 AM	3	68	0	71	0	0	2	2	0	62	7	69	0	0	0	0	142
08:45 AM	2	72	0	74	2	0	3	5	0	47	3	50	0	0	0	0	129
Total	11	361	0	372	6	0	6	12	0	267	17	284	0	0	0	0	668
Grand Total	30	959	0	989	10	0	12	22	0	602	43	645	0	0	0	0	1656
Apprch %	3	97	0		45.5	0	54.5		0	93.3	6.7		0	0	0		
Total %	1.8	57.9	0	59.7	0.6	0	0.7	1.3	0	36.4	2.6	38.9	0	0	0	0	

	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	**7**	151	0	158	1	0	**2**	**3**	0	85	5	90	0	0	0	0	251
07:30 AM	4	**192**	0	**196**	1	0	1	2	0	**92**	5	97	0	0	0	0	**295**
07:45 AM	4	129	0	133	0	0	0	0	0	89	**14**	**103**	0	0	0	0	236
08:00 AM	5	126	0	131	**2**	0	0	2	0	83	3	86	0	0	0	0	219
Total Volume	20	598	0	618	4	0	3	7	0	349	27	376	0	0	0	0	1001
% App. Total	3.2	96.8	0		57.1	0	42.9		0	92.8	7.2		0	0	0		
PHF	.714	.779	.000	.788	.500	.000	.375	.583	.000	.948	.482	.913	.000	.000	.000	.000	.848

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	**7**	151	0	158	1	0	**2**	**3**	0	85	5	90	0	0	0	0
+15 mins.	4	**192**	0	**196**	1	0	1	2	0	**92**	5	97	0	0	0	0
+30 mins.	4	129	0	133	0	0	0	0	0	89	**14**	**103**	0	0	0	0
+45 mins.	5	126	0	131	**2**	0	0	2	0	83	3	86	0	0	0	0
Total Volume	20	598	0	618	4	0	3	7	0	349	27	376	0	0	0	0
% App. Total	3.2	96.8	0		57.1	0	42.9		0	92.8	7.2		0	0	0	
PHF	.714	.779	.000	.788	.500	.000	.375	.583	.000	.948	.482	.913	.000	.000	.000	.000

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa AM
Site Code : 22520079
Start Date : 2/5/2020

Groups Printed- Large 2 Axle Vehicles

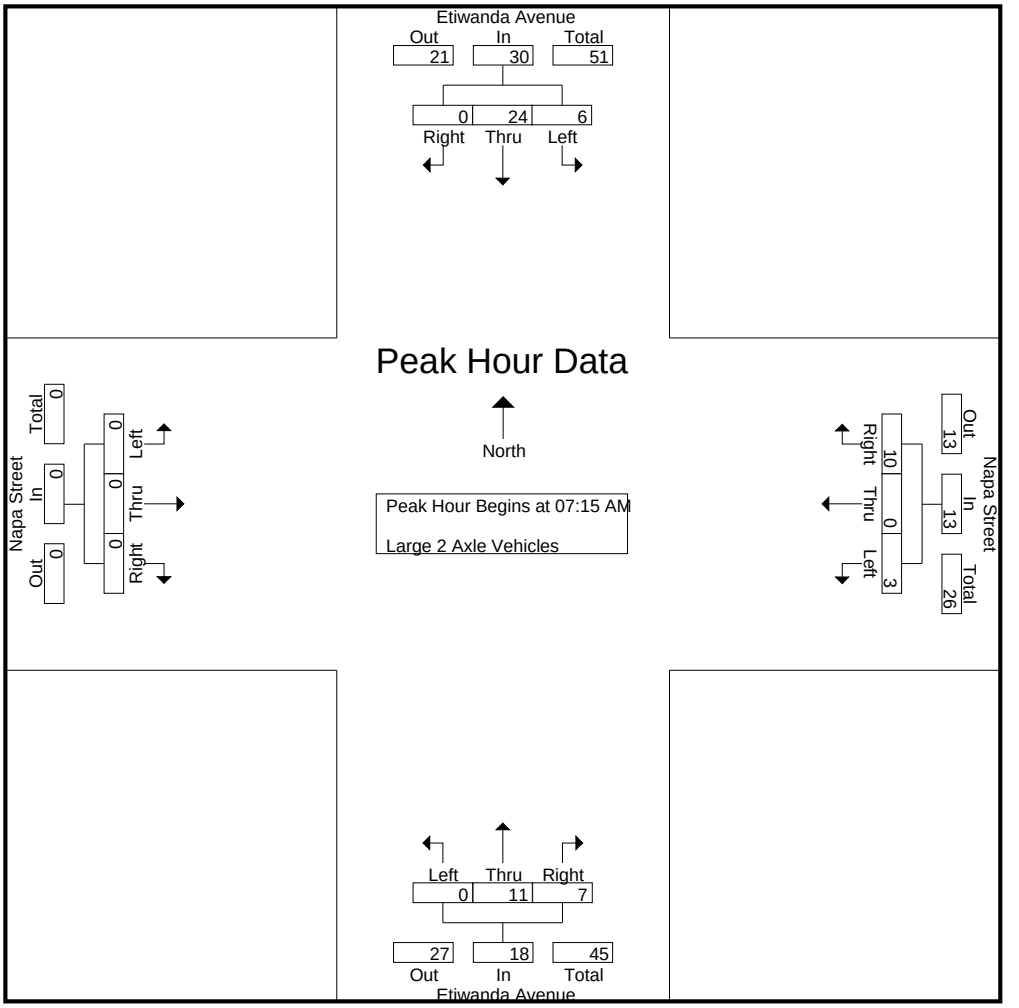
	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	14	0	14	2	0	1	3	0	2	1	3	0	0	0	0	20
07:15 AM	3	8	0	11	1	0	2	3	0	3	2	5	0	0	0	0	19
07:30 AM	3	7	0	10	1	0	4	5	0	1	0	1	0	0	0	0	16
07:45 AM	0	3	0	3	0	0	2	2	0	3	4	7	0	0	0	0	12
Total	6	32	0	38	4	0	9	13	0	9	7	16	0	0	0	0	67
08:00 AM	0	6	0	6	1	0	2	3	0	4	1	5	0	0	0	0	14
08:15 AM	1	4	0	5	2	0	1	3	0	4	1	5	0	0	0	0	13
08:30 AM	1	10	0	11	1	0	2	3	0	6	3	9	0	0	0	0	23
08:45 AM	2	9	0	11	2	0	2	4	0	3	2	5	0	0	0	0	20
Total	4	29	0	33	6	0	7	13	0	17	7	24	0	0	0	0	70
Grand Total	10	61	0	71	10	0	16	26	0	26	14	40	0	0	0	0	137
Apprch %	14.1	85.9	0		38.5	0	61.5		0	65	35		0	0	0		
Total %	7.3	44.5	0	51.8	7.3	0	11.7	19	0	19	10.2	29.2	0	0	0	0	

	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	**3**	**8**	0	**11**	**1**	0	2	3	0	3	2	5	0	0	0	0	**19**
07:30 AM	3	7	0	10	1	0	**4**	**5**	0	1	0	1	0	0	0	0	16
07:45 AM	0	3	0	3	0	0	2	2	0	3	**4**	**7**	0	0	0	0	12
08:00 AM	0	6	0	6	1	0	2	3	0	**4**	1	5	0	0	0	0	14
Total Volume	6	24	0	30	3	0	10	13	0	11	7	18	0	0	0	0	61
% App. Total	20	80	0		23.1	0	76.9		0	61.1	38.9		0	0	0		
PHF	.500	.750	.000	.682	.750	.000	.625	.650	.000	.688	.438	.643	.000	.000	.000	.000	.803

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa AM
Site Code : 22520079
Start Date : 2/5/2020
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Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	**3**	**8**	0	**11**	**1**	0	2	3	0	3	2	5	0	0	0	0
+15 mins.	3	7	0	10	1	0	**4**	**5**	0	1	0	1	0	0	0	0
+30 mins.	0	3	0	3	0	0	2	2	0	3	**4**	**7**	0	0	0	0
+45 mins.	0	6	0	6	1	0	2	3	0	**4**	1	5	0	0	0	0
Total Volume	6	24	0	30	3	0	10	13	0	11	7	18	0	0	0	0
% App. Total	20	80	0		23.1	0	76.9		0	61.1	38.9		0	0	0	
PHF	.500	.750	.000	.682	.750	.000	.625	.650	.000	.688	.438	.643	.000	.000	.000	.000

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
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Weather: Clear

File Name : 04_RNC_Etiwanda_Napa AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 3 Axle Vehicles

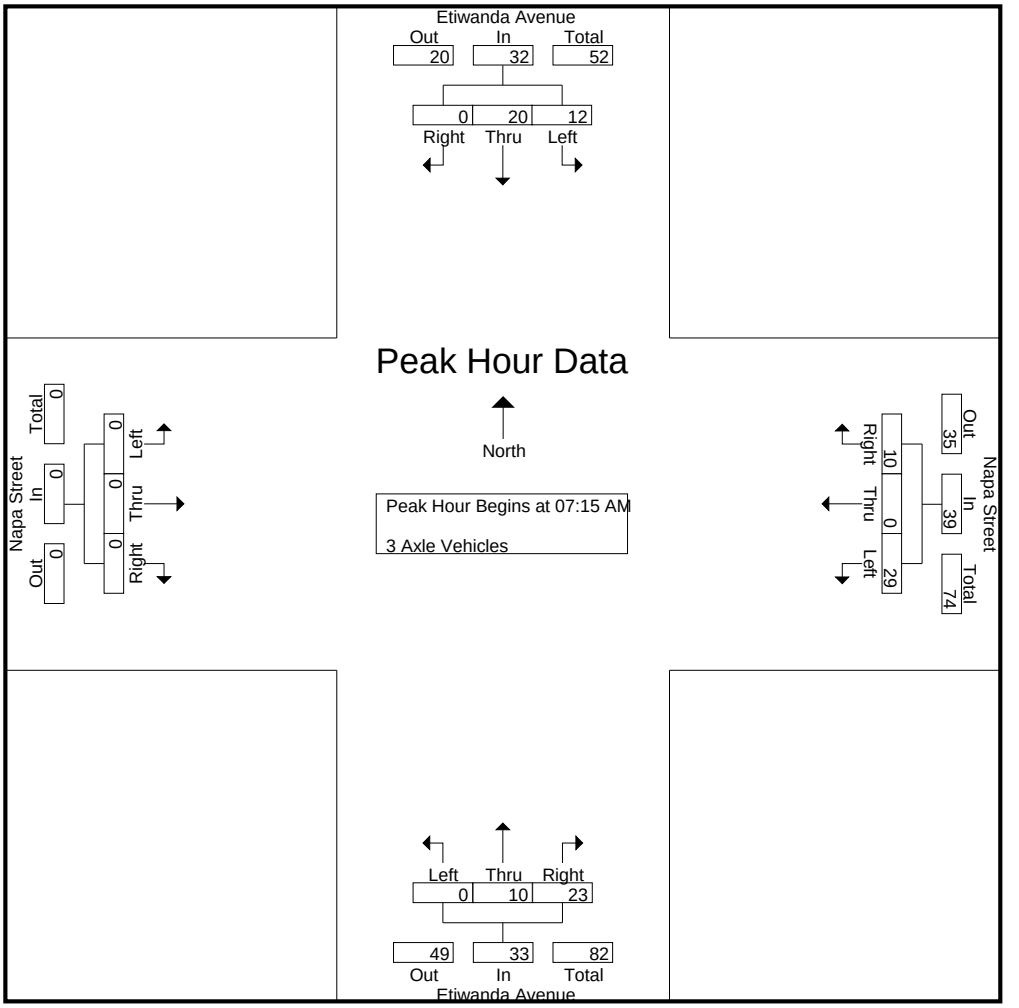
	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	3	2	0	5	4	0	2	6	0	1	8	9	0	0	0	0	20
07:15 AM	2	1	0	3	10	0	3	13	0	4	3	7	0	0	0	0	23
07:30 AM	3	9	0	12	5	0	3	8	0	1	7	8	0	0	0	0	28
07:45 AM	1	1	0	2	6	0	2	8	0	2	7	9	0	0	0	0	19
Total	9	13	0	22	25	0	10	35	0	8	25	33	0	0	0	0	90
08:00 AM	6	9	0	15	8	0	2	10	0	3	6	9	0	0	0	0	34
08:15 AM	0	8	0	8	5	0	1	6	0	4	8	12	0	0	0	0	26
08:30 AM	0	9	0	9	7	0	5	12	0	5	8	13	0	0	0	0	34
08:45 AM	5	2	0	7	7	0	0	7	0	3	8	11	0	0	0	0	25
Total	11	28	0	39	27	0	8	35	0	15	30	45	0	0	0	0	119
Grand Total	20	41	0	61	52	0	18	70	0	23	55	78	0	0	0	0	209
Apprch %	32.8	67.2	0		74.3	0	25.7		0	29.5	70.5		0	0	0		
Total %	9.6	19.6	0	29.2	24.9	0	8.6	33.5	0	11	26.3	37.3	0	0	0	0	

	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	2	1	0	3	**10**	0	**3**	**13**	0	**4**	3	7	0	0	0	0	23
07:30 AM	3	**9**	0	12	5	0	3	8	0	1	**7**	8	0	0	0	0	28
07:45 AM	1	1	0	2	6	0	2	8	0	2	7	**9**	0	0	0	0	19
08:00 AM	**6**	9	0	**15**	8	0	2	10	0	3	6	9	0	0	0	0	**34**
Total Volume	12	20	0	32	29	0	10	39	0	10	23	33	0	0	0	0	104
% App. Total	37.5	62.5	0		74.4	0	25.6		0	30.3	69.7		0	0	0		
PHF	.500	.556	.000	.533	.725	.000	.833	.750	.000	.625	.821	.917	.000	.000	.000	.000	.765

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa AM
Site Code : 22520079
Start Date : 2/5/2020
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Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	2	1	0	3	**10**	0	**3**	**13**	0	**4**	3	7	0	0	0	0
+15 mins.	3	**9**	0	12	5	0	3	8	0	1	**7**	8	0	0	0	0
+30 mins.	1	1	0	2	6	0	2	8	0	2	7	**9**	0	0	0	0
+45 mins.	**6**	9	0	**15**	8	0	2	10	0	3	6	9	0	0	0	0
Total Volume	12	20	0	32	29	0	10	39	0	10	23	33	0	0	0	0
% App. Total	37.5	62.5	0		74.4	0	25.6		0	30.3	69.7		0	0	0	
PHF	.500	.556	.000	.533	.725	.000	.833	.750	.000	.625	.821	.917	.000	.000	.000	.000

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 4+ Axle Trucks

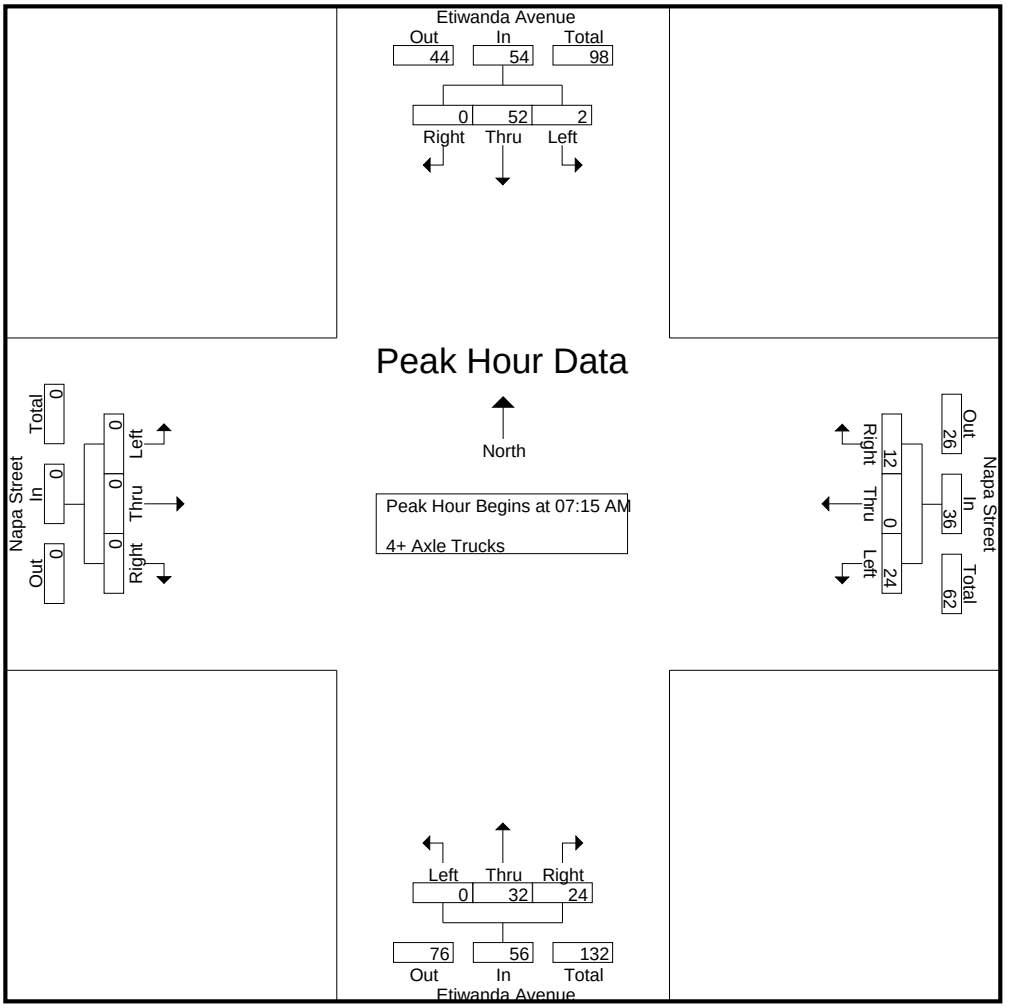
	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	2	10	0	12	6	0	2	8	0	12	9	21	0	0	0	0	41
07:15 AM	1	14	0	15	6	0	5	11	0	7	6	13	0	0	0	0	39
07:30 AM	0	11	0	11	7	0	3	10	0	9	5	14	0	0	0	0	35
07:45 AM	1	12	0	13	6	0	2	8	0	8	7	15	0	0	0	0	36
Total	4	47	0	51	25	0	12	37	0	36	27	63	0	0	0	0	151
08:00 AM	0	15	0	15	5	0	2	7	0	8	6	14	0	0	0	0	36
08:15 AM	3	12	0	15	7	0	1	8	0	9	8	17	0	0	0	0	40
08:30 AM	2	17	0	19	4	0	0	4	0	8	8	16	0	0	0	0	39
08:45 AM	1	16	0	17	4	0	2	6	0	9	6	15	0	0	0	0	38
Total	6	60	0	66	20	0	5	25	0	34	28	62	0	0	0	0	153
Grand Total	10	107	0	117	45	0	17	62	0	70	55	125	0	0	0	0	304
Apprch %	8.5	91.5	0		72.6	0	27.4		0	56	44		0	0	0		
Total %	3.3	35.2	0	38.5	14.8	0	5.6	20.4	0	23	18.1	41.1	0	0	0	0	

	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	**1**	14	0	**15**	6	0	**5**	**11**	0	7	6	13	0	0	0	0	**39**
07:30 AM	0	11	0	11	**7**	0	3	10	0	**9**	5	14	0	0	0	0	35
07:45 AM	1	12	0	13	6	0	2	8	0	8	**7**	**15**	0	0	0	0	36
08:00 AM	0	**15**	0	15	5	0	2	7	0	8	6	14	0	0	0	0	36
Total Volume	2	52	0	54	24	0	12	36	0	32	24	56	0	0	0	0	146
% App. Total	3.7	96.3	0		66.7	0	33.3		0	57.1	42.9		0	0	0		
PHF	.500	.867	.000	.900	.857	.000	.600	.818	.000	.889	.857	.933	.000	.000	.000	.000	.936

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File Name : 04_RNC_Etiwanda_Napa AM
Site Code : 22520079
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Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	**1**	14	0	**15**	6	0	**5**	**11**	0	7	6	13	0	0	0	0
+15 mins.	0	11	0	11	**7**	0	3	10	0	**9**	5	14	0	0	0	0
+30 mins.	1	12	0	13	6	0	2	8	0	8	**7**	**15**	0	0	0	0
+45 mins.	0	**15**	0	15	5	0	2	7	0	8	6	14	0	0	0	0
Total Volume	2	52	0	54	24	0	12	36	0	32	24	56	0	0	0	0
% App. Total	3.7	96.3	0		66.7	0	33.3		0	57.1	42.9		0	0	0	
PHF	.500	.867	.000	.900	.857	.000	.600	.818	.000	.889	.857	.933	.000	.000	.000	.000

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

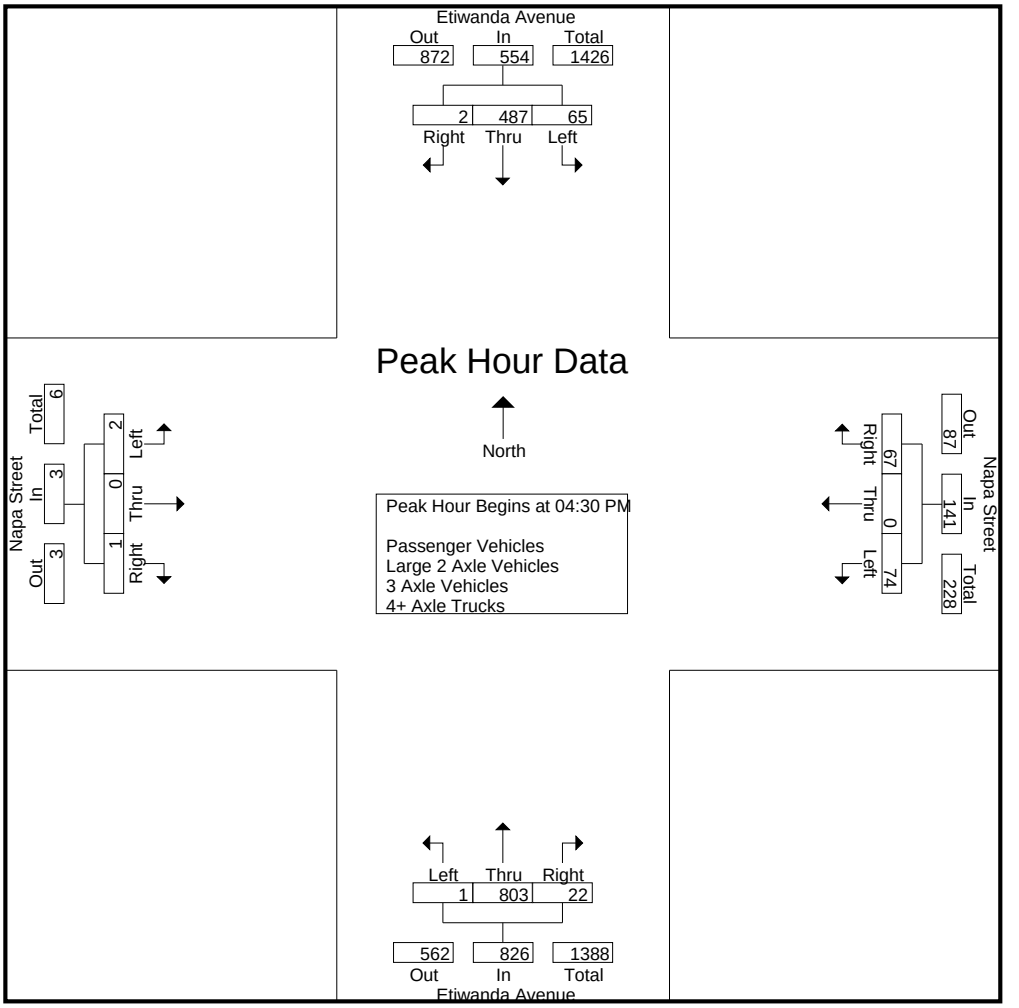
	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	15	117	0	132	9	0	1	10	2	221	9	232	0	0	0	0	374
04:15 PM	20	113	0	133	13	0	11	24	0	169	7	176	0	0	0	0	333
04:30 PM	15	111	0	126	26	0	28	54	0	194	6	200	0	0	0	0	380
04:45 PM	25	137	2	164	21	0	10	31	0	176	6	182	2	0	0	2	379
Total	75	478	2	555	69	0	50	119	2	760	28	790	2	0	0	2	1466
05:00 PM	17	112	0	129	18	0	16	34	0	195	5	200	0	0	0	0	363
05:15 PM	8	127	0	135	9	0	13	22	1	238	5	244	0	0	1	1	402
05:30 PM	10	91	0	101	11	1	21	33	0	180	4	184	0	0	0	0	318
05:45 PM	7	73	0	80	10	0	23	33	0	190	0	190	0	0	0	0	303
Total	42	403	0	445	48	1	73	122	1	803	14	818	0	0	1	1	1386
Grand Total	117	881	2	1000	117	1	123	241	3	1563	42	1608	2	0	1	3	2852
Apprch %	11.7	88.1	0.2		48.5	0.4	51		0.2	97.2	2.6		66.7	0	33.3		
Total %	4.1	30.9	0.1	35.1	4.1	0	4.3	8.5	0.1	54.8	1.5	56.4	0.1	0	0	0.1	
Passenger Vehicles	16	775	2	793	58	0	52	110	2	1428	10	1440	2	0	1	3	2346
% Passenger Vehicles	13.7	88	100	79.3	49.6	0	42.3	45.6	66.7	91.4	23.8	89.6	100	0	100	100	82.3
Large 2 Axle Vehicles	2	24	0	26	5	0	7	12	0	43	4	47	0	0	0	0	85
% Large 2 Axle Vehicles	1.7	2.7	0	2.6	4.3	0	5.7	5	0	2.8	9.5	2.9	0	0	0	0	3
3 Axle Vehicles	84	26	0	110	45	1	53	99	1	33	13	47	0	0	0	0	256
% 3 Axle Vehicles	71.8	3	0	11	38.5	100	43.1	41.1	33.3	2.1	31	2.9	0	0	0	0	9
4+ Axle Trucks	15	56	0	71	9	0	11	20	0	59	15	74	0	0	0	0	165
% 4+ Axle Trucks	12.8	6.4	0	7.1	7.7	0	8.9	8.3	0	3.8	35.7	4.6	0	0	0	0	5.8

	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	15	111	0	126	**26**	0	**28**	**54**	0	194	**6**	200	0	0	0	0	380
04:45 PM	**25**	**137**	**2**	**164**	21	0	10	31	0	176	6	182	**2**	0	0	**2**	379
05:00 PM	17	112	0	129	18	0	16	34	0	195	5	200	0	0	0	0	363
05:15 PM	8	127	0	135	9	0	13	22	**1**	**238**	5	**244**	0	0	**1**	1	**402**
Total Volume	65	487	2	554	74	0	67	141	1	803	22	826	2	0	1	3	1524
% App. Total	11.7	87.9	0.4		52.5	0	47.5		0.1	97.2	2.7		66.7	0	33.3		
PHF	.650	.889	.250	.845	.712	.000	.598	.653	.250	.843	.917	.846	.250	.000	.250	.375	.948

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Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:15 PM				04:30 PM				04:30 PM			
+0 mins.	15	117	0	132	13	0	11	24	0	194	**6**	200	0	0	0	0
+15 mins.	20	113	0	133	**26**	0	**28**	**54**	0	176	6	182	**2**	0	0	**2**
+30 mins.	15	111	0	126	21	0	10	31	0	195	5	200	0	0	0	0
+45 mins.	**25**	**137**	**2**	**164**	18	0	16	34	**1**	**238**	5	**244**	0	0	**1**	1
Total Volume	75	478	2	555	78	0	65	143	1	803	22	826	2	0	1	3
% App. Total	13.5	86.1	0.4		54.5	0	45.5		0.1	97.2	2.7		66.7	0	33.3	
PHF	.750	.872	.250	.846	.750	.000	.580	.662	.250	.843	.917	.846	.250	.000	.250	.375

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File Name : 04_RNC_Etiwanda_Napa PM
Site Code : 22520079
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Groups Printed- Passenger Vehicles

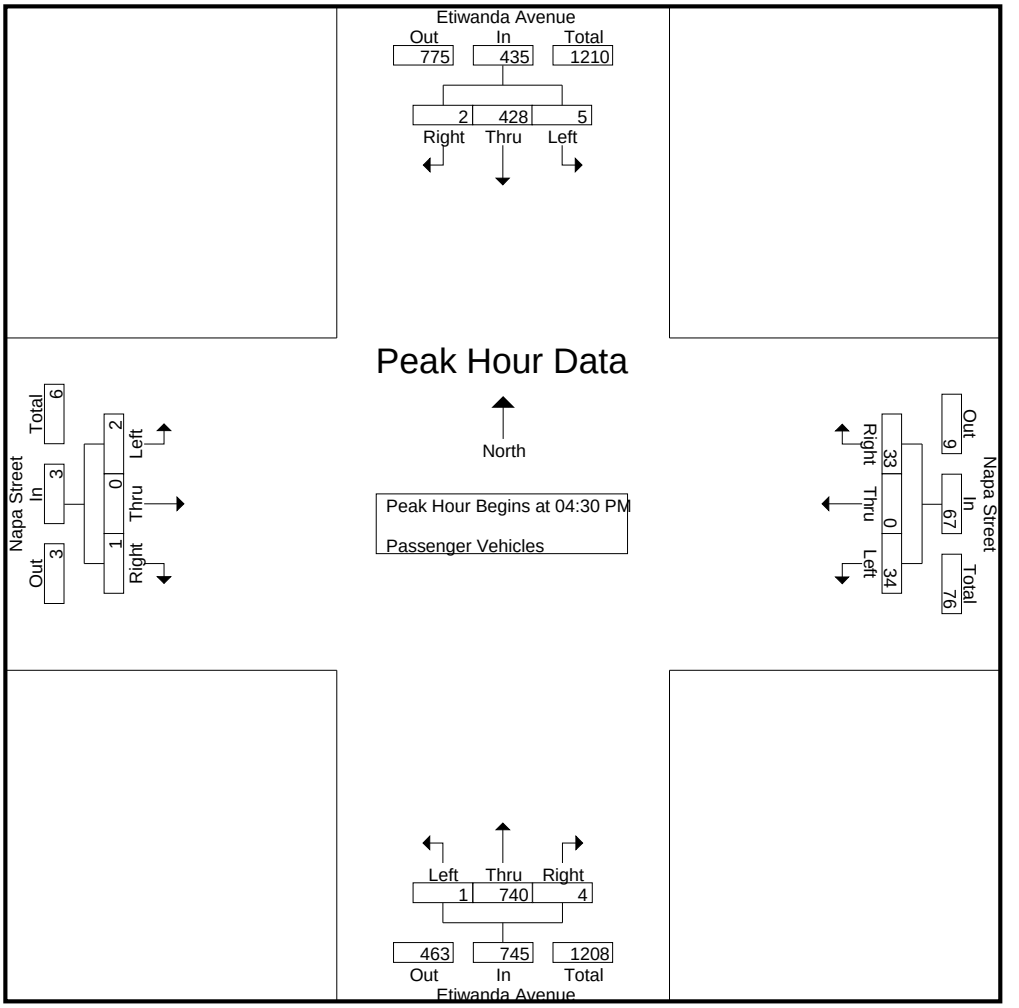
	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	4	107	0	111	7	0	1	8	1	197	4	202	0	0	0	0	321
04:15 PM	4	98	0	102	5	0	6	11	0	149	1	150	0	0	0	0	263
04:30 PM	1	90	0	91	13	0	13	26	0	183	1	184	0	0	0	0	301
04:45 PM	4	120	2	126	6	0	6	12	0	161	2	163	2	0	0	2	303
Total	13	415	2	430	31	0	26	57	1	690	8	699	2	0	0	2	1188
05:00 PM	0	99	0	99	8	0	11	19	0	178	1	179	0	0	0	0	297
05:15 PM	0	119	0	119	7	0	3	10	1	218	0	219	0	0	1	1	349
05:30 PM	2	82	0	84	8	0	9	17	0	166	1	167	0	0	0	0	268
05:45 PM	1	60	0	61	4	0	3	7	0	176	0	176	0	0	0	0	244
Total	3	360	0	363	27	0	26	53	1	738	2	741	0	0	1	1	1158
Grand Total	16	775	2	793	58	0	52	110	2	1428	10	1440	2	0	1	3	2346
Apprch %	2	97.7	0.3		52.7	0	47.3		0.1	99.2	0.7		66.7	0	33.3		
Total %	0.7	33	0.1	33.8	2.5	0	2.2	4.7	0.1	60.9	0.4	61.4	0.1	0	0	0.1	

	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	1	90	0	91	**13**	0	**13**	**26**	0	183	1	184	0	0	0	0	301
04:45 PM	**4**	**120**	**2**	**126**	6	0	6	12	0	161	**2**	163	**2**	0	0	**2**	303
05:00 PM	0	99	0	99	8	0	11	19	0	178	1	179	0	0	0	0	297
05:15 PM	0	119	0	119	7	0	3	10	**1**	**218**	0	**219**	0	0	**1**	1	**349**
Total Volume	5	428	2	435	34	0	33	67	1	740	4	745	2	0	1	3	1250
% App. Total	1.1	98.4	0.5		50.7	0	49.3		0.1	99.3	0.5		66.7	0	33.3		
PHF	.313	.892	.250	.863	.654	.000	.635	.644	.250	.849	.500	.850	.250	.000	.250	.375	.895

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City of Rancho Cucamonga
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Weather: Clear

File Name : 04_RNC_Etiwanda_Napa PM
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Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	1	90	0	91	**13**	0	**13**	**26**	0	183	1	184	0	0	0	0
+15 mins.	**4**	**120**	**2**	**126**	6	0	6	12	0	161	**2**	163	**2**	0	0	**2**
+30 mins.	0	99	0	99	8	0	11	19	0	178	1	179	0	0	0	0
+45 mins.	0	119	0	119	7	0	3	10	**1**	**218**	0	**219**	0	0	**1**	1
Total Volume	5	428	2	435	34	0	33	67	1	740	4	745	2	0	1	3
% App. Total	1.1	98.4	0.5		50.7	0	49.3		0.1	99.3	0.5		66.7	0	33.3	
PHF	.313	.892	.250	.863	.654	.000	.635	.644	.250	.849	.500	.850	.250	.000	.250	.375

Counts Unlimited
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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa PM
Site Code : 22520079
Start Date : 2/5/2020

Groups Printed- Large 2 Axle Vehicles

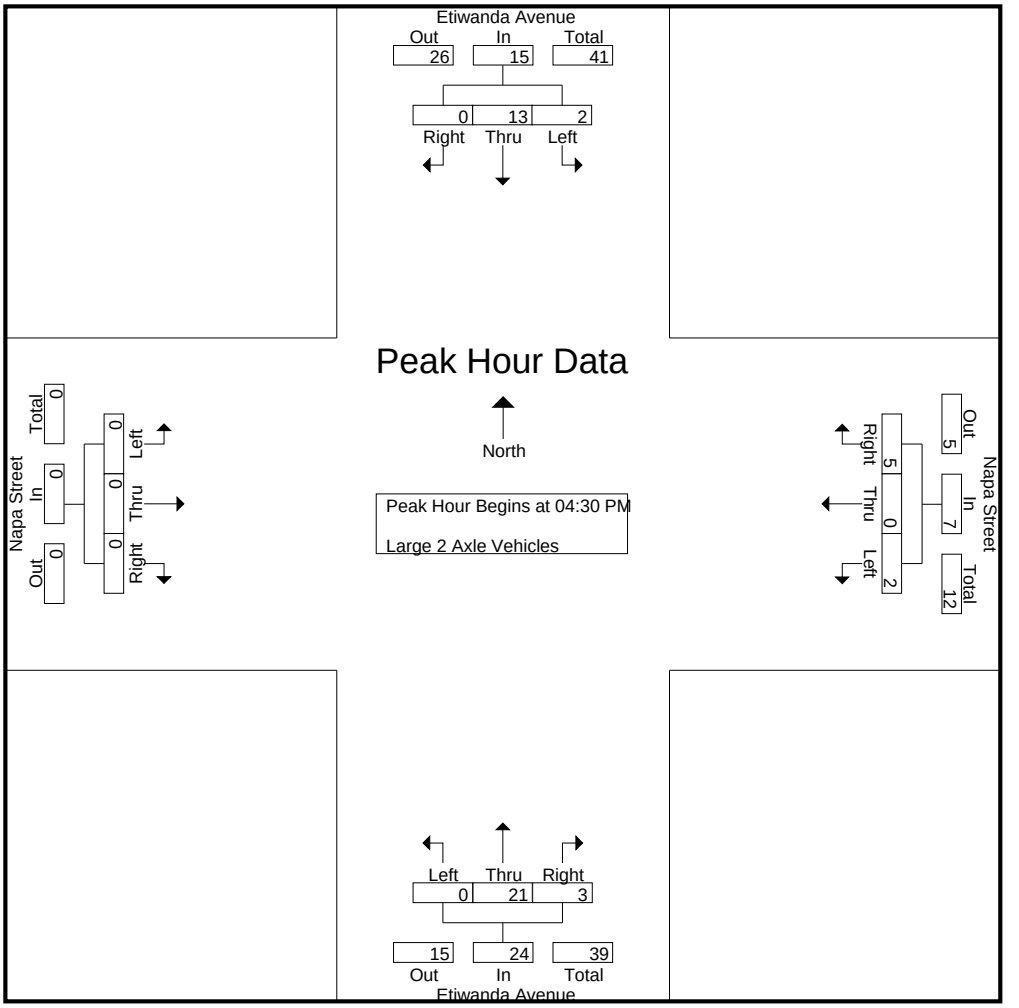
	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	3	0	3	0	0	0	0	0	7	0	7	0	0	0	0	10
04:15 PM	0	3	0	3	1	0	1	2	0	9	1	10	0	0	0	0	15
04:30 PM	0	5	0	5	1	0	5	6	0	2	1	3	0	0	0	0	14
04:45 PM	0	5	0	5	0	0	0	0	0	7	0	7	0	0	0	0	12
Total	0	16	0	16	2	0	6	8	0	25	2	27	0	0	0	0	51
05:00 PM	0	2	0	2	1	0	0	1	0	4	0	4	0	0	0	0	7
05:15 PM	2	1	0	3	0	0	0	0	0	8	2	10	0	0	0	0	13
05:30 PM	0	2	0	2	1	0	1	2	0	3	0	3	0	0	0	0	7
05:45 PM	0	3	0	3	1	0	0	1	0	3	0	3	0	0	0	0	7
Total	2	8	0	10	3	0	1	4	0	18	2	20	0	0	0	0	34
Grand Total	2	24	0	26	5	0	7	12	0	43	4	47	0	0	0	0	85
Apprch %	7.7	92.3	0		41.7	0	58.3		0	91.5	8.5		0	0	0		
Total %	2.4	28.2	0	30.6	5.9	0	8.2	14.1	0	50.6	4.7	55.3	0	0	0	0	

	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	**5**	0	**5**	**1**	0	**5**	**6**	0	2	1	3	0	0	0	0	**14**
04:45 PM	0	5	0	5	0	0	0	0	0	7	0	7	0	0	0	0	12
05:00 PM	0	2	0	2	1	0	0	1	0	4	0	4	0	0	0	0	7
05:15 PM	**2**	1	0	3	0	0	0	0	0	**8**	**2**	**10**	0	0	0	0	13
Total Volume	2	13	0	15	2	0	5	7	0	21	3	24	0	0	0	0	46
% App. Total	13.3	86.7	0		28.6	0	71.4		0	87.5	12.5		0	0	0		
PHF	.250	.650	.000	.750	.500	.000	.250	.292	.000	.656	.375	.600	.000	.000	.000	.000	.821

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	**5**	0	**5**	**1**	0	**5**	**6**	0	2	1	3	0	0	0	0
+15 mins.	0	5	0	5	0	0	0	0	0	7	0	7	0	0	0	0
+30 mins.	0	2	0	2	1	0	0	1	0	4	0	4	0	0	0	0
+45 mins.	**2**	1	0	3	0	0	0	0	0	**8**	**2**	**10**	0	0	0	0
Total Volume	2	13	0	15	2	0	5	7	0	21	3	24	0	0	0	0
% App. Total	13.3	86.7	0		28.6	0	71.4		0	87.5	12.5		0	0	0	
PHF	.250	.650	.000	.750	.500	.000	.250	.292	.000	.656	.375	.600	.000	.000	.000	.000

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 3 Axle Vehicles

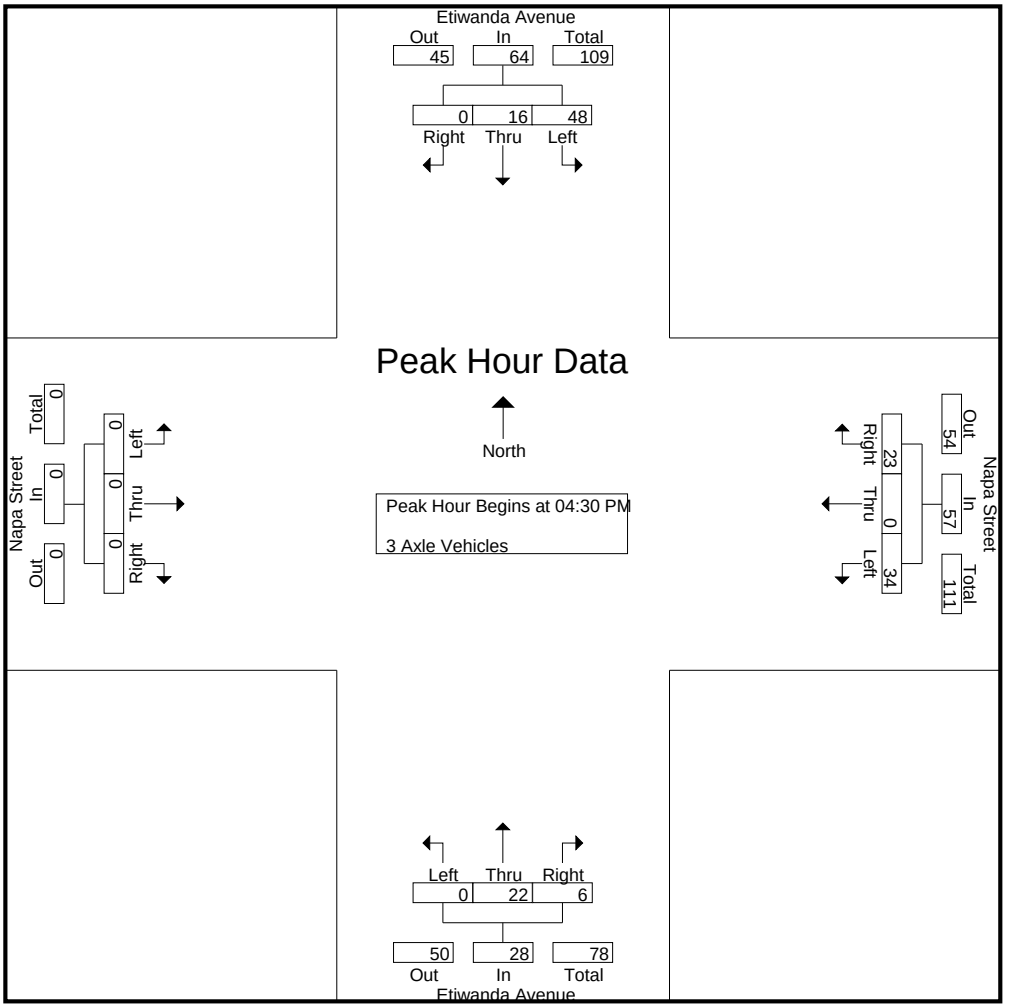
	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	9	2	0	11	2	0	0	2	1	4	4	9	0	0	0	0	22
04:15 PM	16	3	0	19	4	0	4	8	0	3	3	6	0	0	0	0	33
04:30 PM	10	5	0	15	11	0	9	20	0	5	2	7	0	0	0	0	42
04:45 PM	17	5	0	22	13	0	4	17	0	4	1	5	0	0	0	0	44
Total	52	15	0	67	30	0	17	47	1	16	10	27	0	0	0	0	141
05:00 PM	16	3	0	19	8	0	2	10	0	7	1	8	0	0	0	0	37
05:15 PM	5	3	0	8	2	0	8	10	0	6	2	8	0	0	0	0	26
05:30 PM	6	1	0	7	1	1	9	11	0	2	0	2	0	0	0	0	20
05:45 PM	5	4	0	9	4	0	17	21	0	2	0	2	0	0	0	0	32
Total	32	11	0	43	15	1	36	52	0	17	3	20	0	0	0	0	115
Grand Total	84	26	0	110	45	1	53	99	1	33	13	47	0	0	0	0	256
Apprch %	76.4	23.6	0		45.5	1	53.5		2.1	70.2	27.7		0	0	0		
Total %	32.8	10.2	0	43	17.6	0.4	20.7	38.7	0.4	12.9	5.1	18.4	0	0	0	0	

	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	10	**5**	0	15	11	0	**9**	**20**	0	5	**2**	7	0	0	0	0	42
04:45 PM	**17**	5	0	**22**	**13**	0	4	17	0	4	1	5	0	0	0	0	**44**
05:00 PM	16	3	0	19	8	0	2	10	0	**7**	1	**8**	0	0	0	0	37
05:15 PM	5	3	0	8	2	0	8	10	0	6	2	8	0	0	0	0	26
Total Volume	48	16	0	64	34	0	23	57	0	22	6	28	0	0	0	0	149
% App. Total	75	25	0		59.6	0	40.4		0	78.6	21.4		0	0	0		
PHF	.706	.800	.000	.727	.654	.000	.639	.713	.000	.786	.750	.875	.000	.000	.000	.000	.847

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	10	**5**	0	15	11	0	**9**	**20**	0	5	**2**	7	0	0	0	0
+15 mins.	**17**	5	0	**22**	**13**	0	4	17	0	4	1	5	0	0	0	0
+30 mins.	16	3	0	19	8	0	2	10	0	**7**	1	**8**	0	0	0	0
+45 mins.	5	3	0	8	2	0	8	10	0	6	2	8	0	0	0	0
Total Volume	48	16	0	64	34	0	23	57	0	22	6	28	0	0	0	0
% App. Total	75	25	0		59.6	0	40.4		0	78.6	21.4		0	0	0	
PHF	.706	.800	.000	.727	.654	.000	.639	.713	.000	.786	.750	.875	.000	.000	.000	.000

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 4+ Axle Trucks

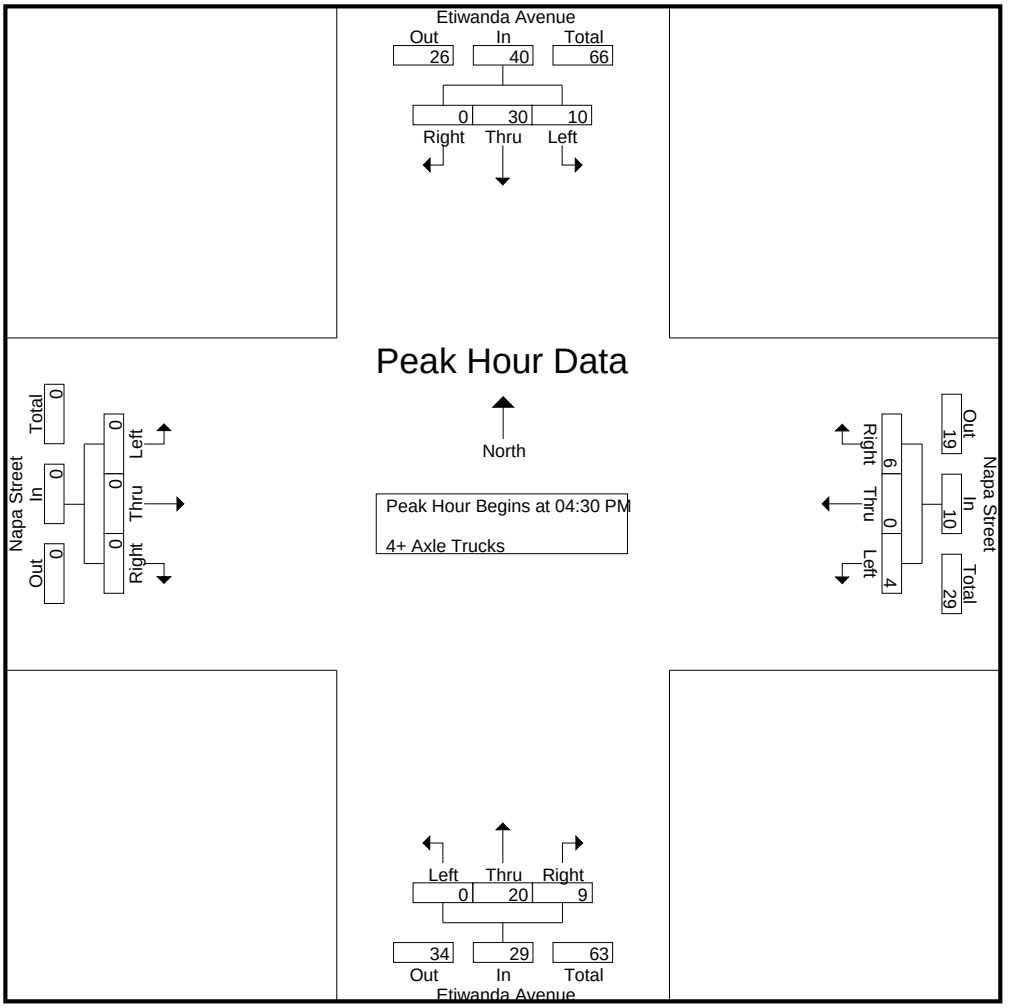
	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	2	5	0	7	0	0	0	0	0	13	1	14	0	0	0	0	21
04:15 PM	0	9	0	9	3	0	0	3	0	8	2	10	0	0	0	0	22
04:30 PM	4	11	0	15	1	0	1	2	0	4	2	6	0	0	0	0	23
04:45 PM	4	7	0	11	2	0	0	2	0	4	3	7	0	0	0	0	20
Total	10	32	0	42	6	0	1	7	0	29	8	37	0	0	0	0	86
05:00 PM	1	8	0	9	1	0	3	4	0	6	3	9	0	0	0	0	22
05:15 PM	1	4	0	5	0	0	2	2	0	6	1	7	0	0	0	0	14
05:30 PM	2	6	0	8	1	0	2	3	0	9	3	12	0	0	0	0	23
05:45 PM	1	6	0	7	1	0	3	4	0	9	0	9	0	0	0	0	20
Total	5	24	0	29	3	0	10	13	0	30	7	37	0	0	0	0	79
Grand Total	15	56	0	71	9	0	11	20	0	59	15	74	0	0	0	0	165
Apprch %	21.1	78.9	0		45	0	55		0	79.7	20.3		0	0	0		
Total %	9.1	33.9	0	43	5.5	0	6.7	12.1	0	35.8	9.1	44.8	0	0	0	0	

	Etiwanda Avenue Southbound				Napa Street Westbound				Etiwanda Avenue Northbound				Napa Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	**4**	**11**	0	**15**	1	0	1	2	0	4	2	6	0	0	0	0	**23**
04:45 PM	4	7	0	11	**2**	0	0	2	0	4	**3**	7	0	0	0	0	20
05:00 PM	1	8	0	9	1	0	**3**	**4**	0	**6**	3	**9**	0	0	0	0	22
05:15 PM	1	4	0	5	0	0	2	2	0	6	1	7	0	0	0	0	14
Total Volume	10	30	0	40	4	0	6	10	0	20	9	29	0	0	0	0	79
% App. Total	25	75	0		40	0	60		0	69	31		0	0	0		
PHF	.625	.682	.000	.667	.500	.000	.500	.625	.000	.833	.750	.806	.000	.000	.000	.000	.859

Counts Unlimited
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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Napa Street
Weather: Clear

File Name : 04_RNC_Etiwanda_Napa PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	**4**	**11**	0	**15**	1	0	1	2	0	4	2	6	0	0	0	0
+15 mins.	4	7	0	11	**2**	0	0	2	0	4	**3**	7	0	0	0	0
+30 mins.	1	8	0	9	1	0	**3**	**4**	0	**6**	3	**9**	0	0	0	0
+45 mins.	1	4	0	5	0	0	2	2	0	6	1	7	0	0	0	0
Total Volume	10	30	0	40	4	0	6	10	0	20	9	29	0	0	0	0
% App. Total	25	75	0		40	0	60		0	69	31		0	0	0	
PHF	.625	.682	.000	.667	.500	.000	.500	.625	.000	.833	.750	.806	.000	.000	.000	.000

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

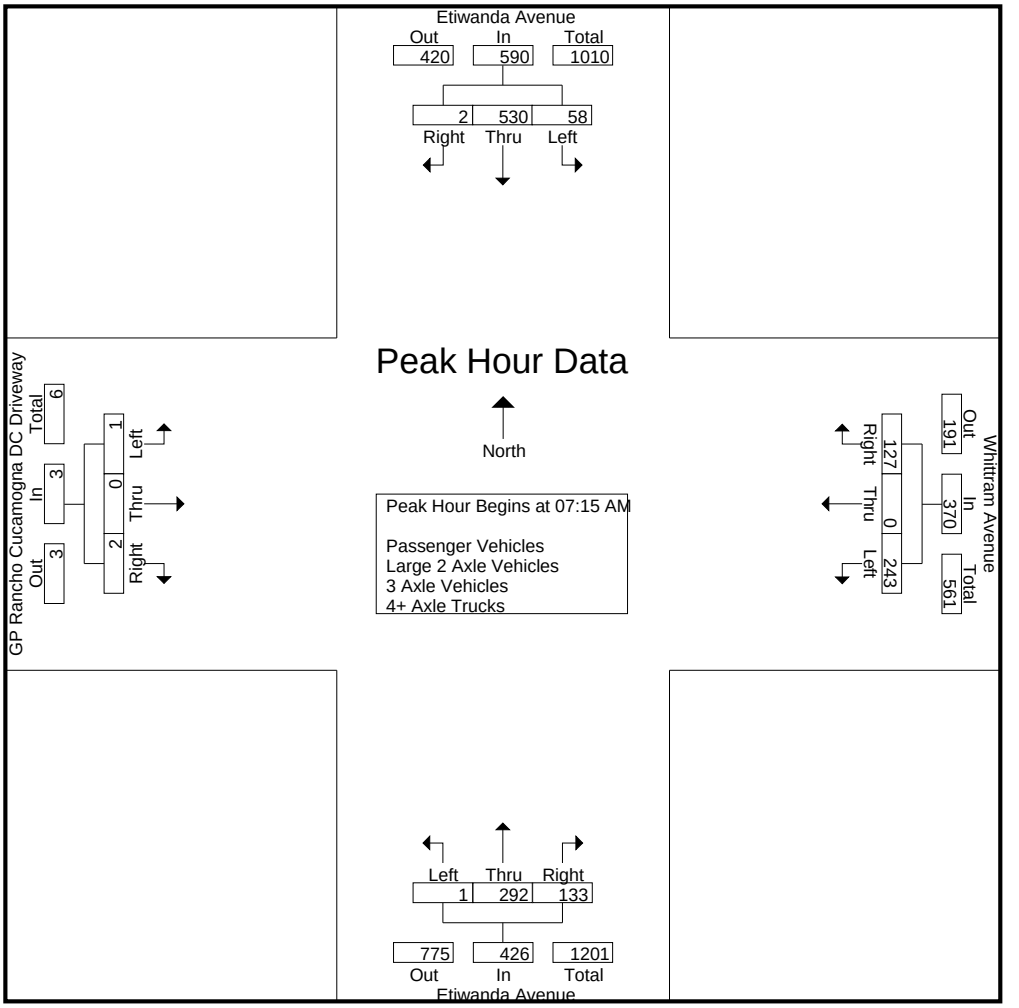
	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	14	122	0	136	52	0	19	71	0	73	25	98	0	0	0	0	305
07:15 AM	12	142	1	155	57	0	31	88	1	73	32	106	1	0	1	2	351
07:30 AM	10	140	0	150	76	0	41	117	0	79	33	112	0	0	0	0	379
07:45 AM	18	116	1	135	65	0	34	99	0	63	36	99	0	0	1	1	334
Total	54	520	2	576	250	0	125	375	1	288	126	415	1	0	2	3	1369
08:00 AM	18	132	0	150	45	0	21	66	0	77	32	109	0	0	0	0	325
08:15 AM	12	94	0	106	39	0	22	61	0	66	31	97	0	0	0	0	264
08:30 AM	10	73	1	84	43	0	13	56	0	51	23	74	0	0	1	1	215
08:45 AM	10	74	0	84	37	0	19	56	0	64	20	84	0	0	0	0	224
Total	50	373	1	424	164	0	75	239	0	258	106	364	0	0	1	1	1028
Grand Total	104	893	3	1000	414	0	200	614	1	546	232	779	1	0	3	4	2397
Apprch %	10.4	89.3	0.3		67.4	0	32.6		0.1	70.1	29.8		25	0	75		
Total %	4.3	37.3	0.1	41.7	17.3	0	8.3	25.6	0	22.8	9.7	32.5	0	0	0.1	0.2	
Passenger Vehicles	94	750	3	847	314	0	187	501	1	445	174	620	1	0	3	4	1972
% Passenger Vehicles	90.4	84	100	84.7	75.8	0	93.5	81.6	100	81.5	75	79.6	100	0	100	100	82.3
Large 2 Axle Vehicles	1	44	0	45	23	0	7	30	0	27	8	35	0	0	0	0	110
% Large 2 Axle Vehicles	1	4.9	0	4.5	5.6	0	3.5	4.9	0	4.9	3.4	4.5	0	0	0	0	4.6
3 Axle Vehicles	2	35	0	37	24	0	2	26	0	24	14	38	0	0	0	0	101
% 3 Axle Vehicles	1.9	3.9	0	3.7	5.8	0	1	4.2	0	4.4	6	4.9	0	0	0	0	4.2
4+ Axle Trucks	7	64	0	71	53	0	4	57	0	50	36	86	0	0	0	0	214
% 4+ Axle Trucks	6.7	7.2	0	7.1	12.8	0	2	9.3	0	9.2	15.5	11	0	0	0	0	8.9

	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	12	**142**	**1**	**155**	57	0	31	88	**1**	73	32	106	**1**	0	**1**	**2**	351
07:30 AM	10	140	0	150	**76**	0	**41**	**117**	0	**79**	33	**112**	0	0	0	0	**379**
07:45 AM	**18**	116	1	135	65	0	34	99	0	63	**36**	99	0	0	1	1	334
08:00 AM	18	132	0	150	45	0	21	66	0	77	32	109	0	0	0	0	325
Total Volume	58	530	2	590	243	0	127	370	1	292	133	426	1	0	2	3	1389
% App. Total	9.8	89.8	0.3		65.7	0	34.3		0.2	68.5	31.2		33.3	0	66.7		
PHF	.806	.933	.500	.952	.799	.000	.774	.791	.250	.924	.924	.951	.250	.000	.500	.375	.916

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:00 AM				07:15 AM				07:00 AM			
+0 mins.	12	**142**	**1**	**155**	52	0	19	71	**1**	73	32	106	0	0	0	0
+15 mins.	10	140	0	150	57	0	31	88	0	**79**	33	**112**	**1**	0	**1**	**2**
+30 mins.	**18**	116	1	135	**76**	0	**41**	**117**	0	63	**36**	99	0	0	0	0
+45 mins.	18	132	0	150	65	0	34	99	0	77	32	109	0	0	1	1
Total Volume	58	530	2	590	250	0	125	375	1	292	133	426	1	0	2	3
% App. Total	9.8	89.8	0.3		66.7	0	33.3		0.2	68.5	31.2		33.3	0	66.7	
PHF	.806	.933	.500	.952	.822	.000	.762	.801	.250	.924	.924	.951	.250	.000	.500	.375

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles

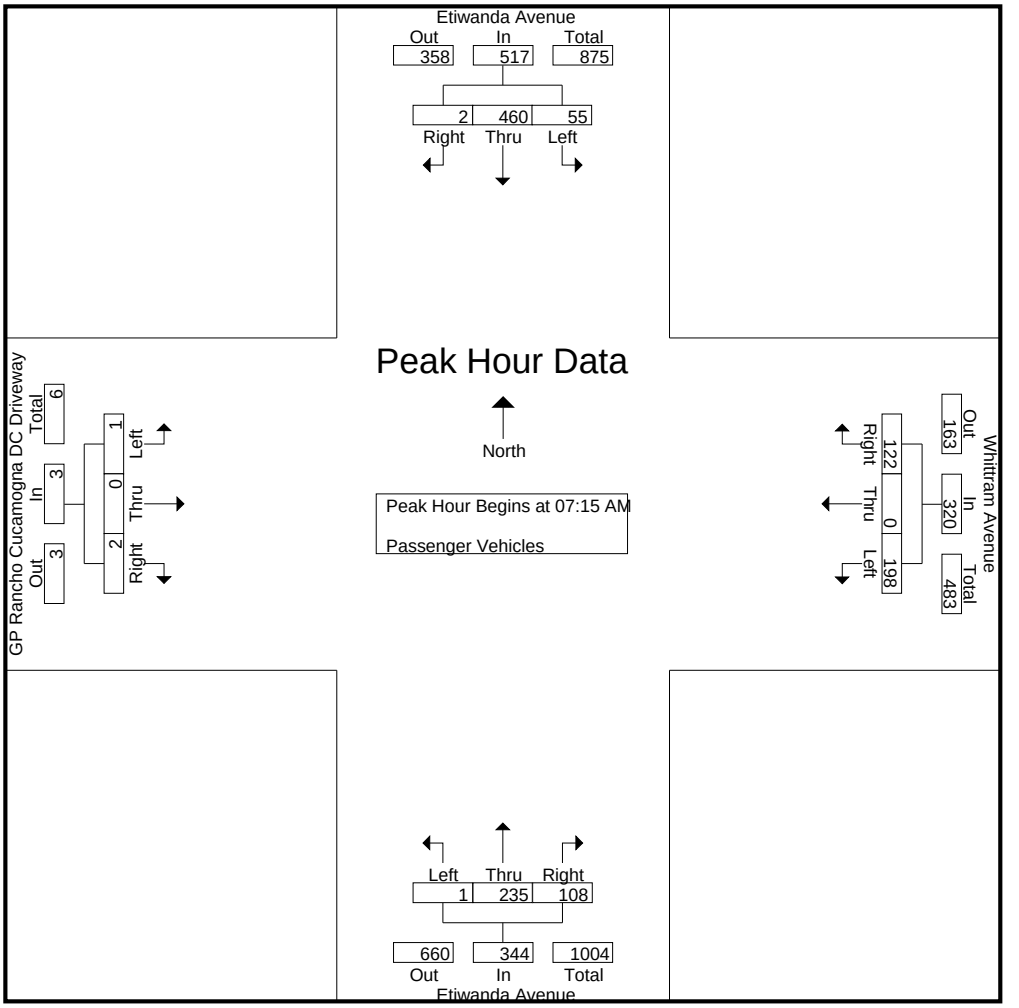
	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	13	106	0	119	33	0	15	48	0	61	17	78	0	0	0	0	245
07:15 AM	12	125	1	138	44	0	29	73	1	58	26	85	1	0	1	2	298
07:30 AM	9	125	0	134	61	0	41	102	0	63	28	91	0	0	0	0	327
07:45 AM	16	106	1	123	56	0	34	90	0	52	29	81	0	0	1	1	295
Total	50	462	2	514	194	0	119	313	1	234	100	335	1	0	2	3	1165
08:00 AM	18	104	0	122	37	0	18	55	0	62	25	87	0	0	0	0	264
08:15 AM	9	75	0	84	30	0	21	51	0	56	21	77	0	0	0	0	212
08:30 AM	9	57	1	67	24	0	12	36	0	42	16	58	0	0	1	1	162
08:45 AM	8	52	0	60	29	0	17	46	0	51	12	63	0	0	0	0	169
Total	44	288	1	333	120	0	68	188	0	211	74	285	0	0	1	1	807
Grand Total	94	750	3	847	314	0	187	501	1	445	174	620	1	0	3	4	1972
Apprch %	11.1	88.5	0.4		62.7	0	37.3		0.2	71.8	28.1		25	0	75		
Total %	4.8	38	0.2	43	15.9	0	9.5	25.4	0.1	22.6	8.8	31.4	0.1	0	0.2	0.2	

	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	12	**125**	**1**	**138**	44	0	29	73	**1**	58	26	85	**1**	0	**1**	**2**	298
07:30 AM	9	125	0	134	**61**	0	**41**	**102**	0	**63**	28	**91**	0	0	0	0	**327**
07:45 AM	16	106	1	123	56	0	34	90	0	52	**29**	81	0	0	1	1	295
08:00 AM	**18**	104	0	122	37	0	18	55	0	62	25	87	0	0	0	0	264
Total Volume	55	460	2	517	198	0	122	320	1	235	108	344	1	0	2	3	1184
% App. Total	10.6	89	0.4		61.9	0	38.1		0.3	68.3	31.4		33.3	0	66.7		
PHF	.764	.920	.500	.937	.811	.000	.744	.784	.250	.933	.931	.945	.250	.000	.500	.375	.905

Counts Unlimited
PO Box 1178
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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram AM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	12	**125**	**1**	**138**	44	0	29	73	**1**	58	26	85	**1**	0	**1**	**2**
+15 mins.	9	125	0	134	**61**	0	**41**	**102**	0	**63**	28	**91**	0	0	0	0
+30 mins.	16	106	1	123	56	0	34	90	0	52	**29**	81	0	0	1	1
+45 mins.	**18**	104	0	122	37	0	18	55	0	62	25	87	0	0	0	0
Total Volume	55	460	2	517	198	0	122	320	1	235	108	344	1	0	2	3
% App. Total	10.6	89	0.4		61.9	0	38.1		0.3	68.3	31.4		33.3	0	66.7	
PHF	.764	.920	.500	.937	.811	.000	.744	.784	.250	.933	.931	.945	.250	.000	.500	.375

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Large 2 Axle Vehicles

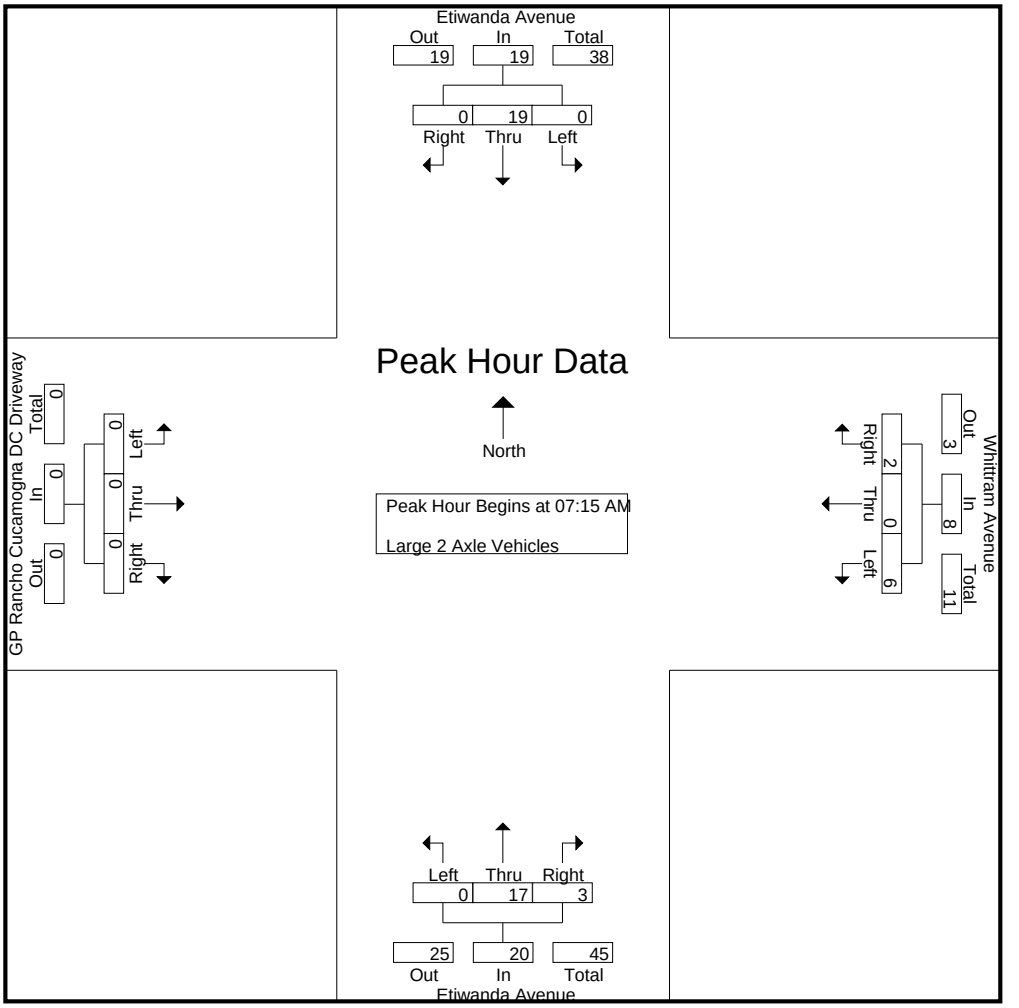
	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	8	0	8	8	0	3	11	0	2	1	3	0	0	0	0	22
07:15 AM	0	6	0	6	3	0	0	3	0	5	0	5	0	0	0	0	14
07:30 AM	0	8	0	8	1	0	0	1	0	5	0	5	0	0	0	0	14
07:45 AM	0	0	0	0	1	0	0	1	0	3	1	4	0	0	0	0	5
Total	0	22	0	22	13	0	3	16	0	15	2	17	0	0	0	0	55
08:00 AM	0	5	0	5	1	0	2	3	0	4	2	6	0	0	0	0	14
08:15 AM	0	7	0	7	1	0	1	2	0	3	0	3	0	0	0	0	12
08:30 AM	0	4	0	4	6	0	0	6	0	3	2	5	0	0	0	0	15
08:45 AM	1	6	0	7	2	0	1	3	0	2	2	4	0	0	0	0	14
Total	1	22	0	23	10	0	4	14	0	12	6	18	0	0	0	0	55
Grand Total	1	44	0	45	23	0	7	30	0	27	8	35	0	0	0	0	110
Apprch %	2.2	97.8	0		76.7	0	23.3		0	77.1	22.9		0	0	0		
Total %	0.9	40	0	40.9	20.9	0	6.4	27.3	0	24.5	7.3	31.8	0	0	0	0	

	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	6	0	6	**3**	0	0	**3**	0	**5**	0	5	0	0	0	0	**14**
07:30 AM	0	**8**	0	**8**	1	0	0	1	0	5	0	5	0	0	0	0	14
07:45 AM	0	0	0	0	1	0	0	1	0	3	1	4	0	0	0	0	5
08:00 AM	0	5	0	5	1	0	**2**	3	0	4	**2**	**6**	0	0	0	0	14
Total Volume	0	19	0	19	6	0	2	8	0	17	3	20	0	0	0	0	47
% App. Total	0	100	0		75	0	25		0	85	15		0	0	0		
PHF	.000	.594	.000	.594	.500	.000	.250	.667	.000	.850	.375	.833	.000	.000	.000	.000	.839

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	6	0	6	**3**	0	0	**3**	0	**5**	0	5	0	0	0	0
+15 mins.	0	**8**	0	**8**	1	0	0	1	0	5	0	5	0	0	0	0
+30 mins.	0	0	0	0	1	0	0	1	0	3	1	4	0	0	0	0
+45 mins.	0	5	0	5	1	0	**2**	3	0	4	**2**	**6**	0	0	0	0
Total Volume	0	19	0	19	6	0	2	8	0	17	3	20	0	0	0	0
% App. Total	0	100	0		75	0	25		0	85	15		0	0	0	
PHF	.000	.594	.000	.594	.500	.000	.250	.667	.000	.850	.375	.833	.000	.000	.000	.000

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 3 Axle Vehicles

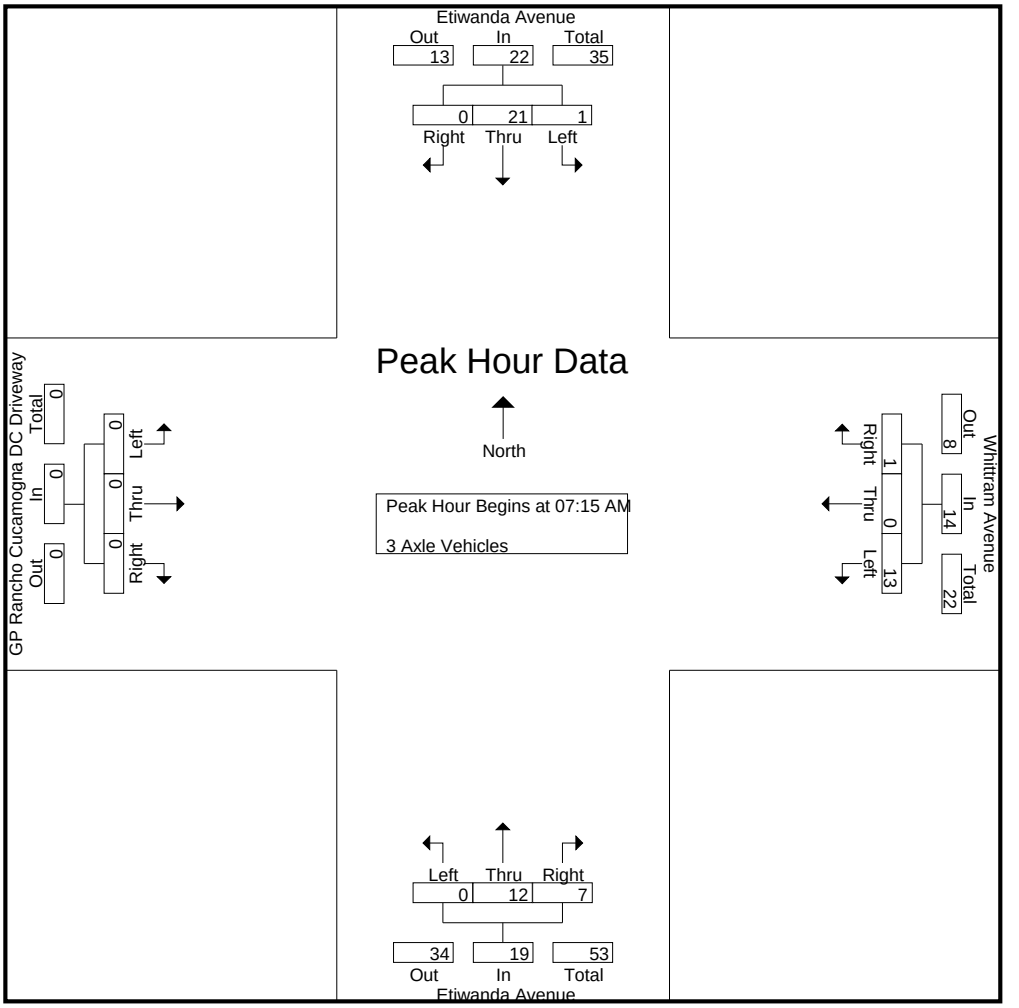
	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	1	5	0	6	2	0	1	3	0	2	2	4	0	0	0	0	13
07:15 AM	0	4	0	4	1	0	1	2	0	3	2	5	0	0	0	0	11
07:30 AM	1	2	0	3	8	0	0	8	0	4	1	5	0	0	0	0	16
07:45 AM	0	2	0	2	2	0	0	2	0	1	2	3	0	0	0	0	7
Total	2	13	0	15	13	0	2	15	0	10	7	17	0	0	0	0	47
08:00 AM	0	13	0	13	2	0	0	2	0	4	2	6	0	0	0	0	21
08:15 AM	0	3	0	3	4	0	0	4	0	2	3	5	0	0	0	0	12
08:30 AM	0	2	0	2	4	0	0	4	0	3	1	4	0	0	0	0	10
08:45 AM	0	4	0	4	1	0	0	1	0	5	1	6	0	0	0	0	11
Total	0	22	0	22	11	0	0	11	0	14	7	21	0	0	0	0	54
Grand Total	2	35	0	37	24	0	2	26	0	24	14	38	0	0	0	0	101
Apprch %	5.4	94.6	0		92.3	0	7.7		0	63.2	36.8		0	0	0		
Total %	2	34.7	0	36.6	23.8	0	2	25.7	0	23.8	13.9	37.6	0	0	0	0	

	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	4	0	4	1	0	**1**	2	0	3	**2**	5	0	0	0	0	11
07:30 AM	**1**	2	0	3	**8**	0	0	**8**	0	**4**	1	5	0	0	0	0	16
07:45 AM	0	2	0	2	2	0	0	2	0	1	2	3	0	0	0	0	7
08:00 AM	0	**13**	0	**13**	2	0	0	2	0	4	2	**6**	0	0	0	0	**21**
Total Volume	1	21	0	22	13	0	1	14	0	12	7	19	0	0	0	0	55
% App. Total	4.5	95.5	0		92.9	0	7.1		0	63.2	36.8		0	0	0		
PHF	.250	.404	.000	.423	.406	.000	.250	.438	.000	.750	.875	.792	.000	.000	.000	.000	.655

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram AM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	4	0	4	1	0	**1**	2	0	3	**2**	5	0	0	0	0
+15 mins.	**1**	2	0	3	**8**	0	0	**8**	0	**4**	1	5	0	0	0	0
+30 mins.	0	2	0	2	2	0	0	2	0	1	2	3	0	0	0	0
+45 mins.	0	**13**	0	**13**	2	0	0	2	0	4	2	**6**	0	0	0	0
Total Volume	1	21	0	22	13	0	1	14	0	12	7	19	0	0	0	0
% App. Total	4.5	95.5	0		92.9	0	7.1		0	63.2	36.8		0	0	0	
PHF	.250	.404	.000	.423	.406	.000	.250	.438	.000	.750	.875	.792	.000	.000	.000	.000

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram AM
Site Code : 22520079
Start Date : 2/5/2020

Groups Printed- 4+ Axle Trucks

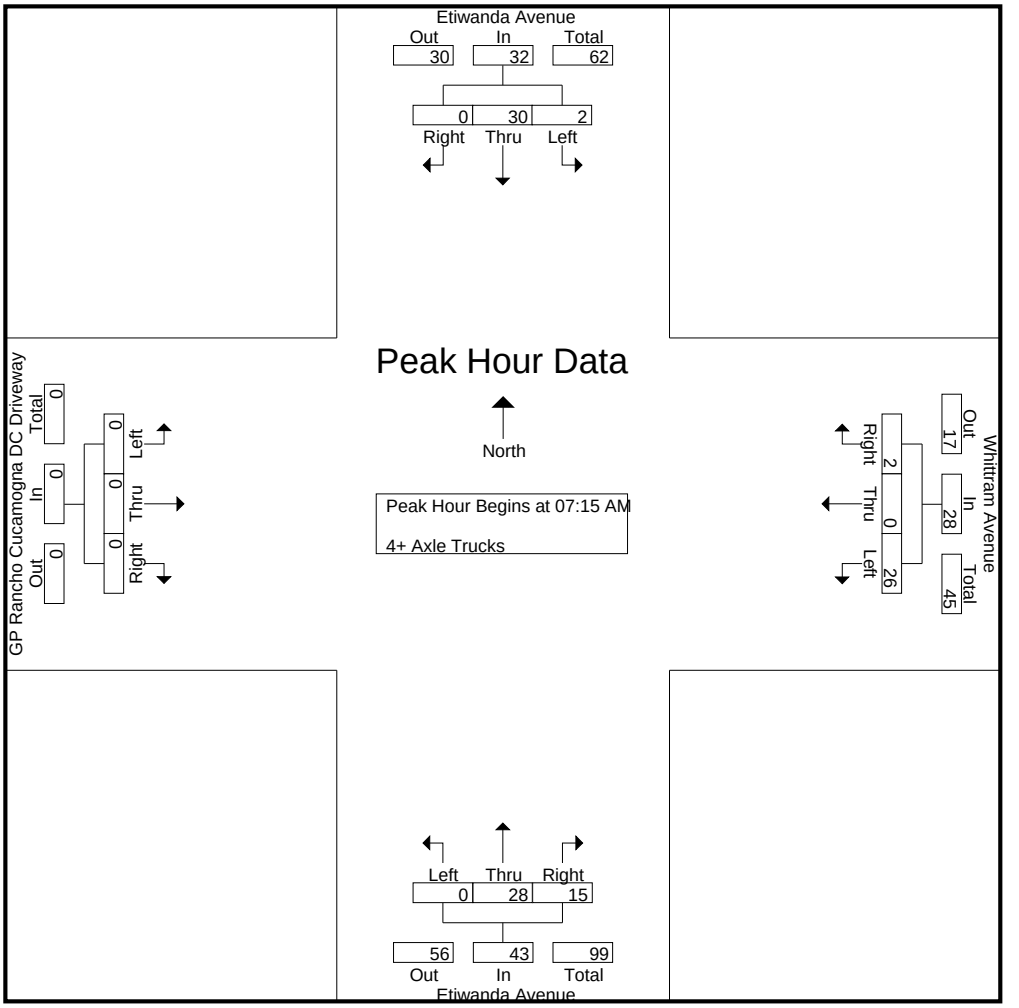
	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	3	0	3	9	0	0	9	0	8	5	13	0	0	0	0	25
07:15 AM	0	7	0	7	9	0	1	10	0	7	4	11	0	0	0	0	28
07:30 AM	0	5	0	5	6	0	0	6	0	7	4	11	0	0	0	0	22
07:45 AM	2	8	0	10	6	0	0	6	0	7	4	11	0	0	0	0	27
Total	2	23	0	25	30	0	1	31	0	29	17	46	0	0	0	0	102
08:00 AM	0	10	0	10	5	0	1	6	0	7	3	10	0	0	0	0	26
08:15 AM	3	9	0	12	4	0	0	4	0	5	7	12	0	0	0	0	28
08:30 AM	1	10	0	11	9	0	1	10	0	3	4	7	0	0	0	0	28
08:45 AM	1	12	0	13	5	0	1	6	0	6	5	11	0	0	0	0	30
Total	5	41	0	46	23	0	3	26	0	21	19	40	0	0	0	0	112
Grand Total	7	64	0	71	53	0	4	57	0	50	36	86	0	0	0	0	214
Apprch %	9.9	90.1	0		93	0	7		0	58.1	41.9		0	0	0		
Total %	3.3	29.9	0	33.2	24.8	0	1.9	26.6	0	23.4	16.8	40.2	0	0	0	0	

	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	7	0	7	**9**	0	**1**	**10**	0	**7**	**4**	**11**	0	0	0	0	**28**
07:30 AM	0	5	0	5	6	0	0	6	0	7	4	11	0	0	0	0	22
07:45 AM	**2**	8	0	**10**	6	0	0	6	0	7	4	11	0	0	0	0	27
08:00 AM	0	**10**	0	10	5	0	1	6	0	7	3	10	0	0	0	0	26
Total Volume	2	30	0	32	26	0	2	28	0	28	15	43	0	0	0	0	103
% App. Total	6.2	93.8	0		92.9	0	7.1		0	65.1	34.9		0	0	0		
PHF	.250	.750	.000	.800	.722	.000	.500	.700	.000	1.00	.938	.977	.000	.000	.000	.000	.920

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram AM
Site Code : 22520079
Start Date : 2/5/2020



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	7	0	7	**9**	0	**1**	**10**	0	**7**	**4**	**11**	0	0	0	0
+15 mins.	0	5	0	5	6	0	0	6	0	7	4	11	0	0	0	0
+30 mins.	**2**	8	0	**10**	6	0	0	6	0	7	4	11	0	0	0	0
+45 mins.	0	**10**	0	10	5	0	1	6	0	7	3	10	0	0	0	0
Total Volume	2	30	0	32	26	0	2	28	0	28	15	43	0	0	0	0
% App. Total	6.2	93.8	0		92.9	0	7.1		0	65.1	34.9		0	0	0	
PHF	.250	.750	.000	.800	.722	.000	.500	.700	.000	1.000	.938	.977	.000	.000	.000	.000

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

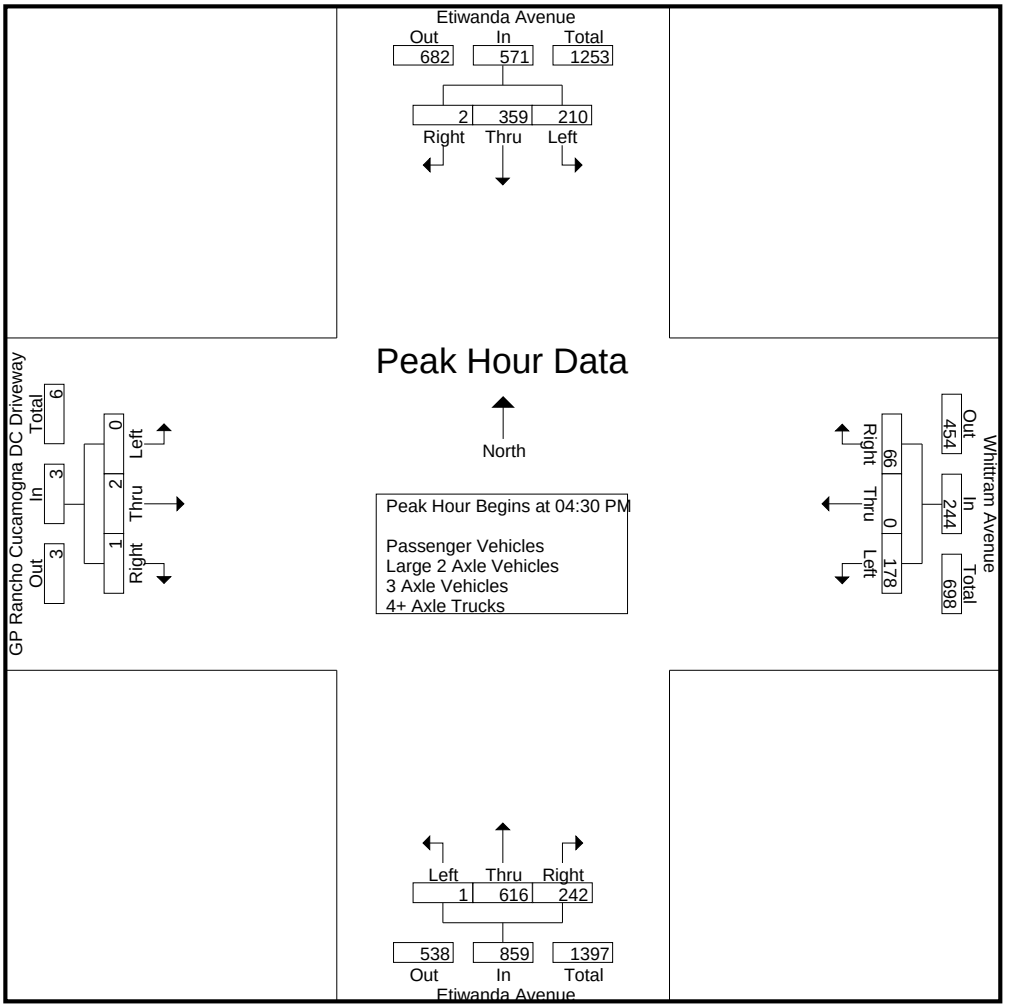
	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	37	87	0	124	49	0	19	68	0	145	49	194	0	0	0	0	386
04:15 PM	40	90	0	130	40	0	17	57	0	148	51	199	0	0	0	0	386
04:30 PM	54	75	1	130	48	0	12	60	0	153	52	205	0	1	0	1	396
04:45 PM	40	99	1	140	48	0	22	70	1	141	60	202	0	1	1	2	414
Total	171	351	2	524	185	0	70	255	1	587	212	800	0	2	1	3	1582
05:00 PM	59	90	0	149	45	0	20	65	0	161	47	208	0	0	0	0	422
05:15 PM	57	95	0	152	37	0	12	49	0	161	83	244	0	0	0	0	445
05:30 PM	55	71	0	126	33	0	17	50	0	160	53	213	0	0	0	0	389
05:45 PM	48	66	0	114	20	0	9	29	0	166	62	228	0	0	0	0	371
Total	219	322	0	541	135	0	58	193	0	648	245	893	0	0	0	0	1627
Grand Total	390	673	2	1065	320	0	128	448	1	1235	457	1693	0	2	1	3	3209
Apprch %	36.6	63.2	0.2		71.4	0	28.6		0.1	72.9	27		0	66.7	33.3		
Total %	12.2	21	0.1	33.2	10	0	4	14	0	38.5	14.2	52.8	0	0.1	0	0.1	
Passenger Vehicles	367	538	2	907	267	0	127	394	1	1153	342	1496	0	2	1	3	2800
% Passenger Vehicles	94.1	79.9	100	85.2	83.4	0	99.2	87.9	100	93.4	74.8	88.4	0	100	100	100	87.3
Large 2 Axle Vehicles	4	22	0	26	6	0	0	6	0	22	25	47	0	0	0	0	79
% Large 2 Axle Vehicles	1	3.3	0	2.4	1.9	0	0	1.3	0	1.8	5.5	2.8	0	0	0	0	2.5
3 Axle Vehicles	6	64	0	70	27	0	0	27	0	18	63	81	0	0	0	0	178
% 3 Axle Vehicles	1.5	9.5	0	6.6	8.4	0	0	6	0	1.5	13.8	4.8	0	0	0	0	5.5
4+ Axle Trucks	13	49	0	62	20	0	1	21	0	42	27	69	0	0	0	0	152
% 4+ Axle Trucks	3.3	7.3	0	5.8	6.2	0	0.8	4.7	0	3.4	5.9	4.1	0	0	0	0	4.7

	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	54	75	**1**	130	**48**	0	12	60	0	153	52	205	0	**1**	0	1	396
04:45 PM	40	**99**	1	140	48	0	**22**	**70**	**1**	141	60	202	0	1	**1**	**2**	414
05:00 PM	**59**	90	0	149	45	0	20	65	0	**161**	47	208	0	0	0	0	422
05:15 PM	57	95	0	**152**	37	0	12	49	0	161	**83**	**244**	0	0	0	0	**445**
Total Volume	210	359	2	571	178	0	66	244	1	616	242	859	0	2	1	3	1677
% App. Total	36.8	62.9	0.4		73	0	27		0.1	71.7	28.2		0	66.7	33.3		
PHF	.890	.907	.500	.939	.927	.000	.750	.871	.250	.957	.729	.880	.000	.500	.250	.375	.942

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:00 PM				05:00 PM				04:00 PM			
+0 mins.	54	75	**1**	130	**49**	0	19	68	0	161	47	208	0	0	0	0
+15 mins.	40	**99**	1	140	40	0	17	57	0	161	**83**	**244**	0	0	0	0
+30 mins.	**59**	90	0	149	48	0	12	60	0	160	53	213	0	**1**	0	1
+45 mins.	57	95	0	**152**	48	0	**22**	**70**	0	**166**	62	228	0	1	**1**	**2**
Total Volume	210	359	2	571	185	0	70	255	0	648	245	893	0	2	1	3
% App. Total	36.8	62.9	0.4		72.5	0	27.5		0	72.6	27.4		0	66.7	33.3	
PHF	.890	.907	.500	.939	.944	.000	.795	.911	.000	.976	.738	.915	.000	.500	.250	.375

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Passenger Vehicles

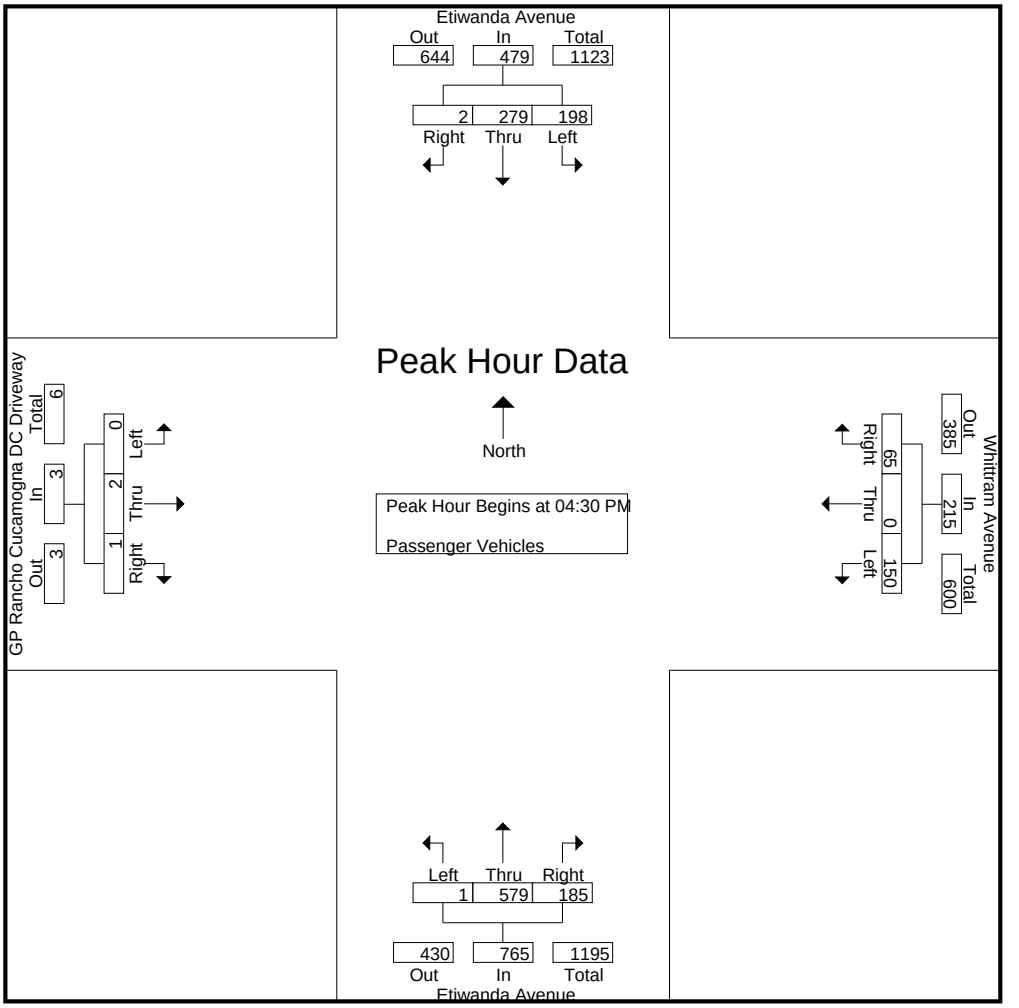
	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	34	77	0	111	42	0	19	61	0	132	39	171	0	0	0	0	343
04:15 PM	36	70	0	106	32	0	17	49	0	140	35	175	0	0	0	0	330
04:30 PM	52	54	1	107	36	0	11	47	0	145	43	188	0	1	0	1	343
04:45 PM	37	74	1	112	43	0	22	65	1	136	43	180	0	1	1	2	359
Total	159	275	2	436	153	0	69	222	1	553	160	714	0	2	1	3	1375
05:00 PM	56	70	0	126	37	0	20	57	0	152	37	189	0	0	0	0	372
05:15 PM	53	81	0	134	34	0	12	46	0	146	62	208	0	0	0	0	388
05:30 PM	54	60	0	114	28	0	17	45	0	148	37	185	0	0	0	0	344
05:45 PM	45	52	0	97	15	0	9	24	0	154	46	200	0	0	0	0	321
Total	208	263	0	471	114	0	58	172	0	600	182	782	0	0	0	0	1425
Grand Total	367	538	2	907	267	0	127	394	1	1153	342	1496	0	2	1	3	2800
Apprch %	40.5	59.3	0.2		67.8	0	32.2		0.1	77.1	22.9		0	66.7	33.3		
Total %	13.1	19.2	0.1	32.4	9.5	0	4.5	14.1	0	41.2	12.2	53.4	0	0.1	0	0.1	

	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	52	54	**1**	107	36	0	11	47	0	145	43	188	0	**1**	0	1	343
04:45 PM	37	74	1	112	**43**	0	**22**	**65**	**1**	136	43	180	0	1	**1**	**2**	359
05:00 PM	**56**	70	0	126	37	0	20	57	0	**152**	37	189	0	0	0	0	372
05:15 PM	53	**81**	0	**134**	34	0	12	46	0	146	**62**	**208**	0	0	0	0	**388**
Total Volume	198	279	2	479	150	0	65	215	1	579	185	765	0	2	1	3	1462
% App. Total	41.3	58.2	0.4		69.8	0	30.2		0.1	75.7	24.2		0	66.7	33.3		
PHF	.884	.861	.500	.894	.872	.000	.739	.827	.250	.952	.746	.919	.000	.500	.250	.375	.942

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	52	54	**1**	107	36	0	11	47	0	145	43	188	0	**1**	0	1
+15 mins.	37	74	1	112	**43**	0	**22**	**65**	**1**	136	43	180	0	1	**1**	**2**
+30 mins.	**56**	70	0	126	37	0	20	57	0	**152**	37	189	0	0	0	0
+45 mins.	53	**81**	0	**134**	34	0	12	46	0	146	**62**	**208**	0	0	0	0
Total Volume	198	279	2	479	150	0	65	215	1	579	185	765	0	2	1	3
% App. Total	41.3	58.2	0.4		69.8	0	30.2		0.1	75.7	24.2		0	66.7	33.3	
PHF	.884	.861	.500	.894	.872	.000	.739	.827	.250	.952	.746	.919	.000	.500	.250	.375

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- Large 2 Axle Vehicles

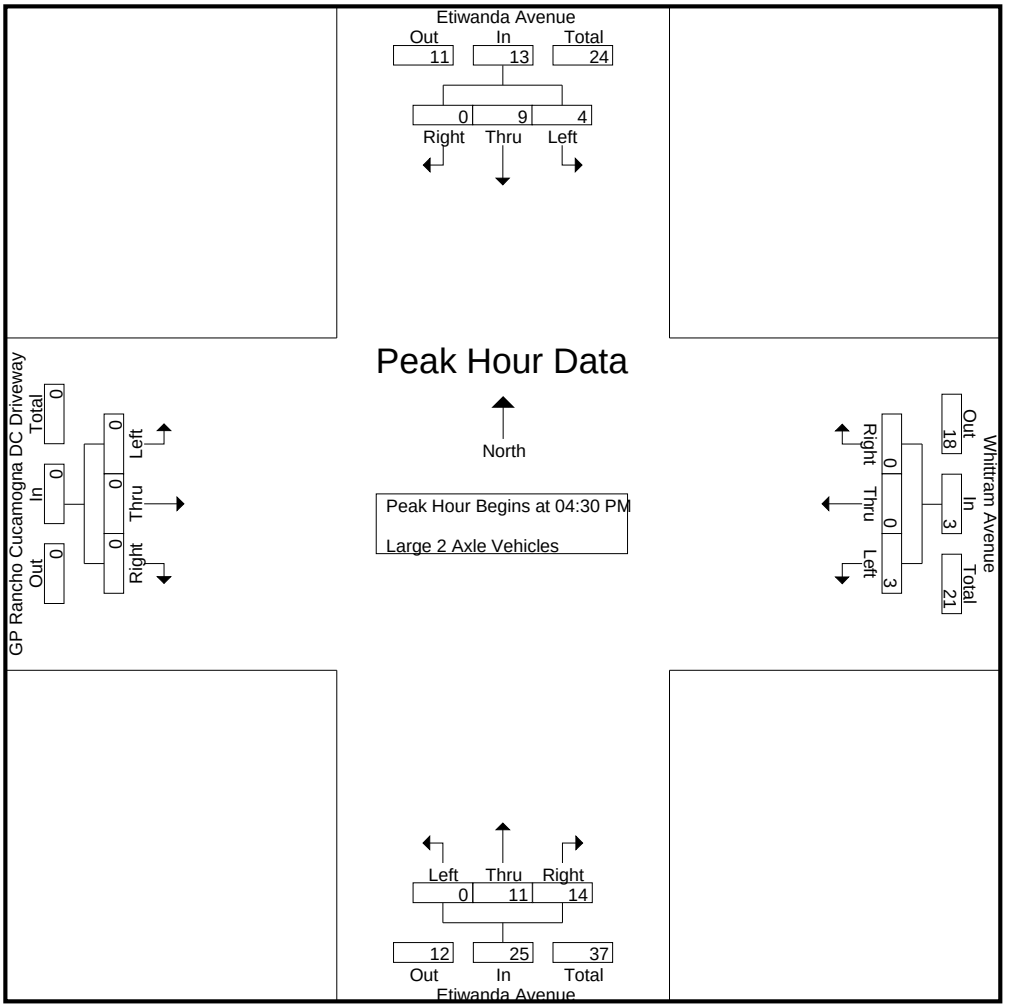
	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	2	0	2	1	0	0	1	0	1	2	3	0	0	0	0	6
04:15 PM	0	3	0	3	1	0	0	1	0	4	5	9	0	0	0	0	13
04:30 PM	0	3	0	3	3	0	0	3	0	2	1	3	0	0	0	0	9
04:45 PM	1	3	0	4	0	0	0	0	0	4	4	8	0	0	0	0	12
Total	1	11	0	12	5	0	0	5	0	11	12	23	0	0	0	0	40
05:00 PM	1	1	0	2	0	0	0	0	0	3	1	4	0	0	0	0	6
05:15 PM	2	2	0	4	0	0	0	0	0	2	8	10	0	0	0	0	14
05:30 PM	0	5	0	5	0	0	0	0	0	4	3	7	0	0	0	0	12
05:45 PM	0	3	0	3	1	0	0	1	0	2	1	3	0	0	0	0	7
Total	3	11	0	14	1	0	0	1	0	11	13	24	0	0	0	0	39
Grand Total	4	22	0	26	6	0	0	6	0	22	25	47	0	0	0	0	79
Apprch %	15.4	84.6	0		100	0	0		0	46.8	53.2		0	0	0		
Total %	5.1	27.8	0	32.9	7.6	0	0	7.6	0	27.8	31.6	59.5	0	0	0	0	

	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	**3**	0	3	**3**	0	0	**3**	0	2	1	3	0	0	0	0	9
04:45 PM	1	3	0	**4**	0	0	0	0	0	**4**	4	8	0	0	0	0	12
05:00 PM	1	1	0	2	0	0	0	0	0	3	1	4	0	0	0	0	6
05:15 PM	**2**	2	0	4	0	0	0	0	0	2	**8**	**10**	0	0	0	0	**14**
Total Volume	4	9	0	13	3	0	0	3	0	11	14	25	0	0	0	0	41
% App. Total	30.8	69.2	0		100	0	0		0	44	56		0	0	0		
PHF	.500	.750	.000	.813	.250	.000	.000	.250	.000	.688	.438	.625	.000	.000	.000	.000	.732

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	**3**	0	3	**3**	0	0	**3**	0	2	1	3	0	0	0	0
+15 mins.	1	3	0	**4**	0	0	0	0	0	**4**	4	8	0	0	0	0
+30 mins.	1	1	0	2	0	0	0	0	0	3	1	4	0	0	0	0
+45 mins.	**2**	2	0	4	0	0	0	0	0	2	**8**	**10**	0	0	0	0
Total Volume	4	9	0	13	3	0	0	3	0	11	14	25	0	0	0	0
% App. Total	30.8	69.2	0		100	0	0		0	44	56		0	0	0	
PHF	.500	.750	.000	.813	.250	.000	.000	.250	.000	.688	.438	.625	.000	.000	.000	.000

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram PM
Site Code : 22520079
Start Date : 2/5/2020

Groups Printed- 3 Axle Vehicles

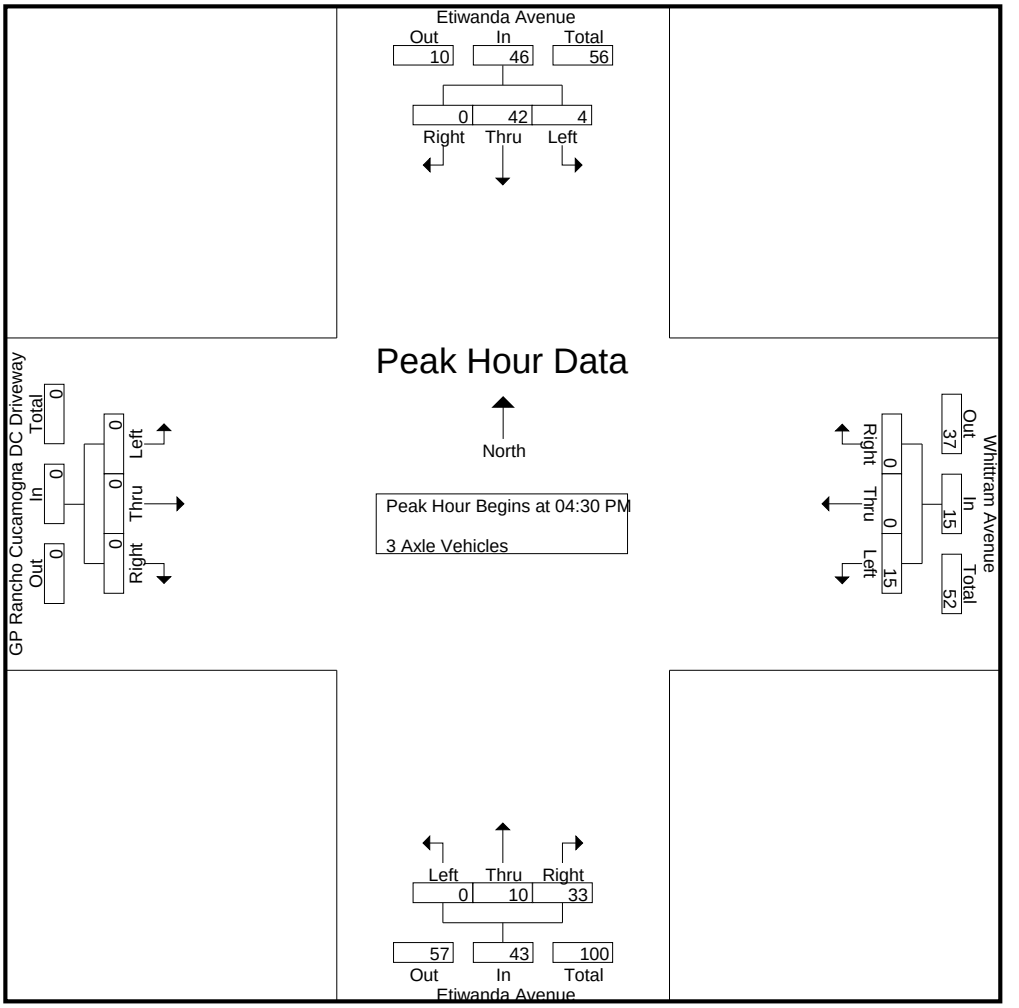
	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	5	0	5	4	0	0	4	0	3	1	4	0	0	0	0	13
04:15 PM	0	11	0	11	5	0	0	5	0	1	6	7	0	0	0	0	23
04:30 PM	1	7	0	8	5	0	0	5	0	4	6	10	0	0	0	0	23
04:45 PM	1	16	0	17	3	0	0	3	0	1	9	10	0	0	0	0	30
Total	2	39	0	41	17	0	0	17	0	9	22	31	0	0	0	0	89
05:00 PM	1	12	0	13	6	0	0	6	0	0	6	6	0	0	0	0	25
05:15 PM	1	7	0	8	1	0	0	1	0	5	12	17	0	0	0	0	26
05:30 PM	1	2	0	3	2	0	0	2	0	2	9	11	0	0	0	0	16
05:45 PM	1	4	0	5	1	0	0	1	0	2	14	16	0	0	0	0	22
Total	4	25	0	29	10	0	0	10	0	9	41	50	0	0	0	0	89
Grand Total	6	64	0	70	27	0	0	27	0	18	63	81	0	0	0	0	178
Apprch %	8.6	91.4	0		100	0	0		0	22.2	77.8		0	0	0		
Total %	3.4	36	0	39.3	15.2	0	0	15.2	0	10.1	35.4	45.5	0	0	0	0	

	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	**1**	7	0	8	5	0	0	5	0	4	6	10	0	0	0	0	23
04:45 PM	1	**16**	0	**17**	3	0	0	3	0	1	9	10	0	0	0	0	**30**
05:00 PM	1	12	0	13	**6**	0	0	**6**	0	0	6	6	0	0	0	0	25
05:15 PM	1	7	0	8	1	0	0	1	0	**5**	**12**	**17**	0	0	0	0	26
Total Volume	4	42	0	46	15	0	0	15	0	10	33	43	0	0	0	0	104
% App. Total	8.7	91.3	0		100	0	0		0	23.3	76.7		0	0	0		
PHF	1.00	.656	.000	.676	.625	.000	.000	.625	.000	.500	.688	.632	.000	.000	.000	.000	.867

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	**1**	7	0	8	5	0	0	5	0	4	6	10	0	0	0	0
+15 mins.	1	**16**	0	**17**	3	0	0	3	0	1	9	10	0	0	0	0
+30 mins.	1	12	0	13	**6**	0	0	**6**	0	0	6	6	0	0	0	0
+45 mins.	1	7	0	8	1	0	0	1	0	**5**	**12**	**17**	0	0	0	0
Total Volume	4	42	0	46	15	0	0	15	0	10	33	43	0	0	0	0
% App. Total	8.7	91.3	0		100	0	0		0	23.3	76.7		0	0	0	
PHF	1.000	.656	.000	.676	.625	.000	.000	.625	.000	.500	.688	.632	.000	.000	.000	.000

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City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 1

Groups Printed- 4+ Axle Trucks

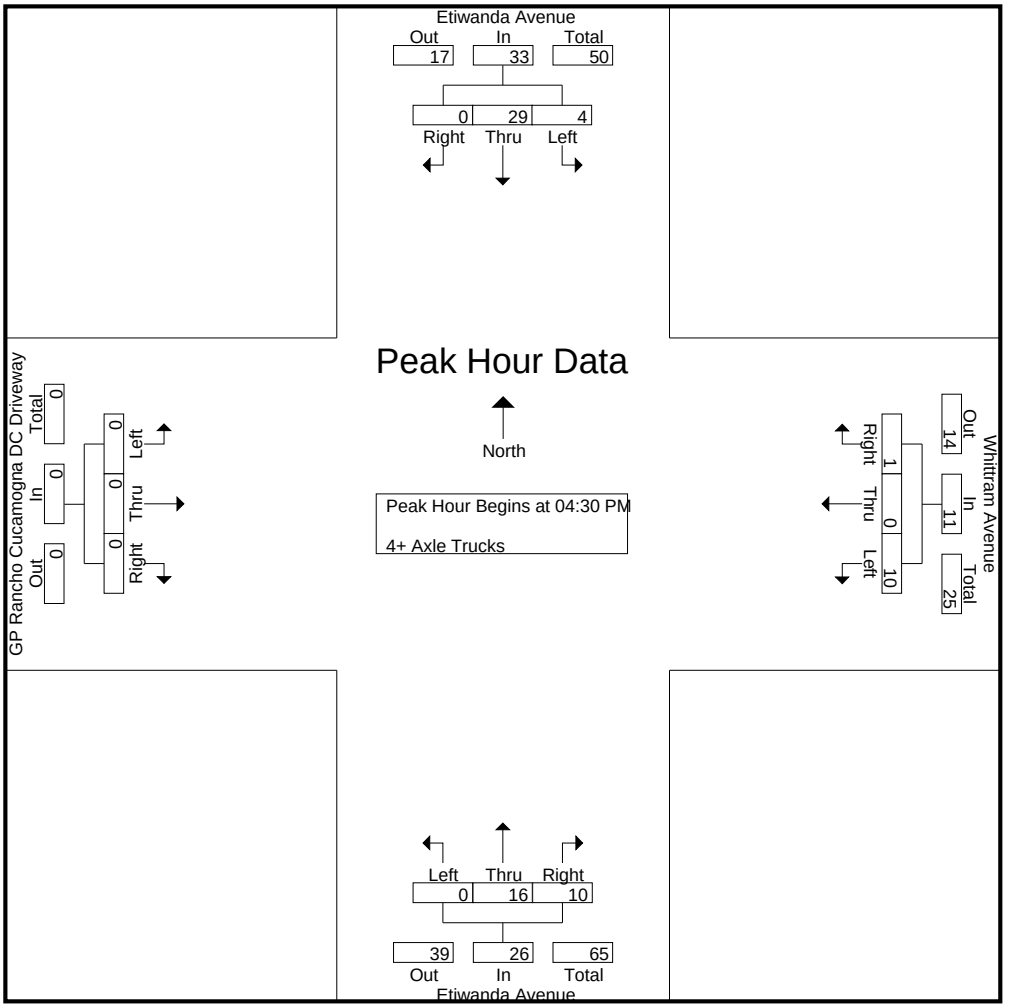
	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	3	3	0	6	2	0	0	2	0	9	7	16	0	0	0	0	24
04:15 PM	4	6	0	10	2	0	0	2	0	3	5	8	0	0	0	0	20
04:30 PM	1	11	0	12	4	0	1	5	0	2	2	4	0	0	0	0	21
04:45 PM	1	6	0	7	2	0	0	2	0	0	4	4	0	0	0	0	13
Total	9	26	0	35	10	0	1	11	0	14	18	32	0	0	0	0	78
05:00 PM	1	7	0	8	2	0	0	2	0	6	3	9	0	0	0	0	19
05:15 PM	1	5	0	6	2	0	0	2	0	8	1	9	0	0	0	0	17
05:30 PM	0	4	0	4	3	0	0	3	0	6	4	10	0	0	0	0	17
05:45 PM	2	7	0	9	3	0	0	3	0	8	1	9	0	0	0	0	21
Total	4	23	0	27	10	0	0	10	0	28	9	37	0	0	0	0	74
Grand Total	13	49	0	62	20	0	1	21	0	42	27	69	0	0	0	0	152
Apprch %	21	79	0		95.2	0	4.8		0	60.9	39.1		0	0	0		
Total %	8.6	32.2	0	40.8	13.2	0	0.7	13.8	0	27.6	17.8	45.4	0	0	0	0	

	Etiwanda Avenue Southbound				Whittram Avenue Westbound				Etiwanda Avenue Northbound				GP Rancho Cucamogna DC Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	**1**	**11**	0	**12**	**4**	0	**1**	**5**	0	2	2	4	0	0	0	0	**21**
04:45 PM	1	6	0	7	2	0	0	2	0	0	**4**	4	0	0	0	0	13
05:00 PM	1	7	0	8	2	0	0	2	0	6	3	**9**	0	0	0	0	19
05:15 PM	1	5	0	6	2	0	0	2	0	**8**	1	9	0	0	0	0	17
Total Volume	4	29	0	33	10	0	1	11	0	16	10	26	0	0	0	0	70
% App. Total	12.1	87.9	0		90.9	0	9.1		0	61.5	38.5		0	0	0		
PHF	1.00	.659	.000	.688	.625	.000	.250	.550	.000	.500	.625	.722	.000	.000	.000	.000	.833

Counts Unlimited
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Rancho Cucamonga
N/S: Etiwanda Avenue
E/W: Whittram Avenue
Weather: Clear

File Name : 03_RNC_Etiwanda_Whittram PM
Site Code : 22520079
Start Date : 2/5/2020
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	**1**	**11**	0	**12**	**4**	0	**1**	**5**	0	2	2	4	0	0	0	0
+15 mins.	1	6	0	7	2	0	0	2	0	0	**4**	4	0	0	0	0
+30 mins.	1	7	0	8	2	0	0	2	0	6	3	**9**	0	0	0	0
+45 mins.	1	5	0	6	2	0	0	2	0	**8**	1	9	0	0	0	0
Total Volume	4	29	0	33	10	0	1	11	0	16	10	26	0	0	0	0
% App. Total	12.1	87.9	0		90.9	0	9.1		0	61.5	38.5		0	0	0	
PHF	1.000	.659	.000	.688	.625	.000	.250	.550	.000	.500	.625	.722	.000	.000	.000	.000

INTERSECTION TURNING MOVEMENT COUNTS

T1218

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Mar 11, 20

LOCATION: Rancho Cucamonga
NORTH & SOUTH: Etiwanda
EAST & WEST: Valley

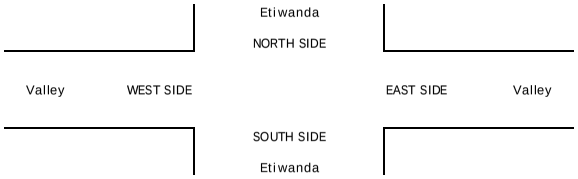
PROJECT #: JN13149
LOCATION #: 9
CONTROL: SIGNAL

NOTES:

AM PM MD OTHER OTHER — ◄ W — ▲ N — S ▼ — E ►

☑ Add U-Turns to Left Turns

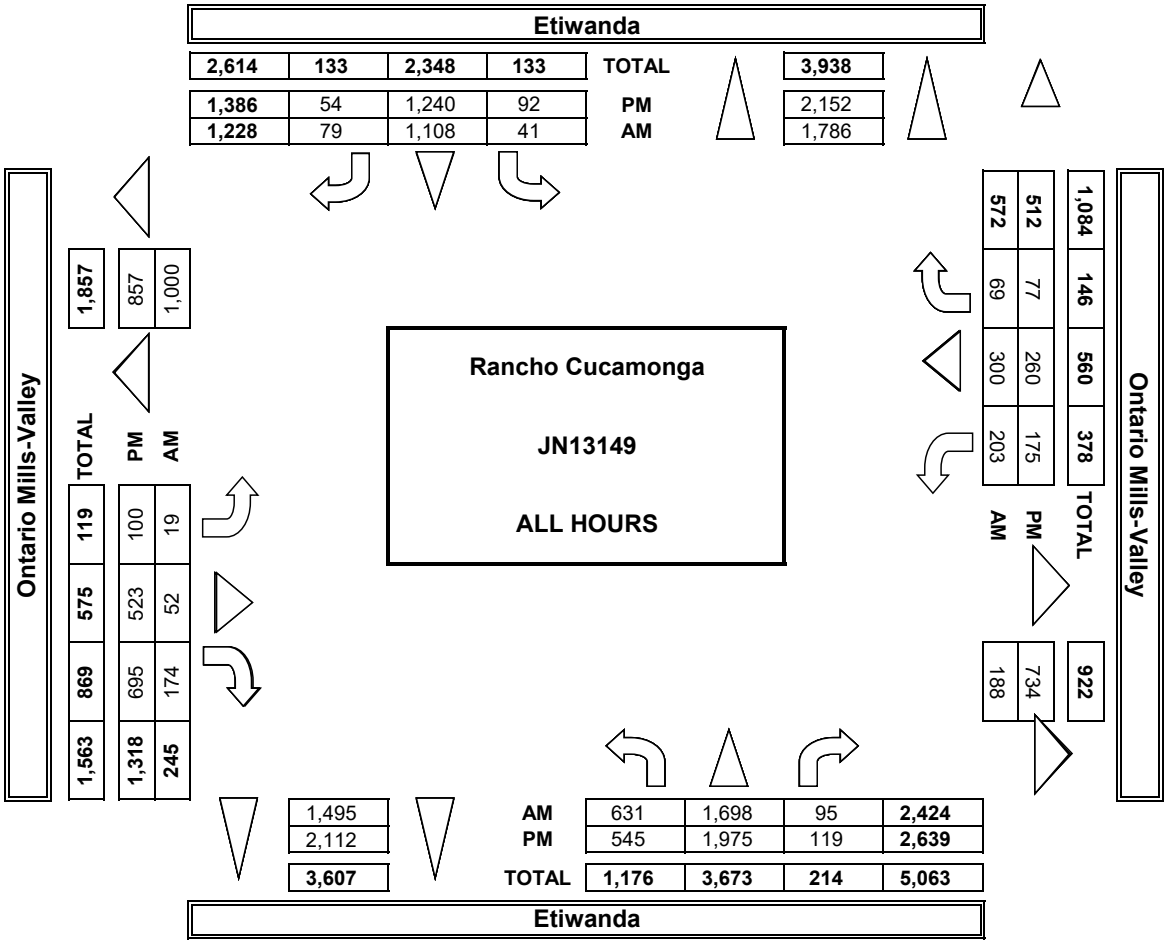
		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND Ontario Mills-Valley			WESTBOUND Ontario Mills-Valley				U-TURNS					RTOR			
	LANES:	NL 2	NT 2.5	NR 0.5	SL 1	ST 3	SR 0	EL 1	ET 2	ER 1	WL 2	WT 2	WR 1	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL	NRR X	SRR 0	ERR X	WRR X
AM	7:00 AM	60	215	8	4	122	8	0	4	20	25	45	3	514	1	0	0	0	1	0	4	0	0
	7:15 AM	94	223	9	3	130	6	3	8	14	34	35	7	566	1	0	0	0	1	0	3	0	0
	7:30 AM	120	232	10	6	177	16	2	7	28	36	59	10	703	1	0	0	0	1	0	5	0	0
	7:45 AM	92	222	17	5	147	12	4	10	27	34	61	13	644	1	0	0	0	1	0	3	0	0
	8:00 AM	77	222	7	7	148	10	2	7	26	18	34	14	572	2	0	0	0	2	0	4	0	0
	8:15 AM	75	205	10	5	146	3	5	8	17	18	27	5	524	1	0	0	0	1	0	0	0	0
	8:30 AM	63	185	14	6	119	12	1	2	23	19	20	8	472	1	0	0	0	1	0	4	0	0
	8:45 AM	50	194	20	5	119	12	2	6	19	19	19	9	474	2	0	0	0	2	0	3	0	0
	VOLUMES	631	1,698	95	41	1,108	79	19	52	174	203	300	69	4,469	10	0	0	0	10	0	26	0	0
	APPROACH %	26%	70%	4%	3%	90%	6%	8%	21%	71%	35%	52%	12%										
	APP/DEPART	2,424	/	1,786	1,228	/	1,495	245	/	188	572	/	1,000	0									
	BEGIN PEAK HR		7:15 AM																				
	VOLUMES	383	899	43	21	602	44	11	32	95	122	189	44	2,485						0	15	0	0
	APPROACH %	29%	68%	3%	3%	90%	7%	8%	23%	69%	34%	53%	12%										
	PEAK HR FACTOR		0.915			0.838			0.841			0.822		0.884									
	APP/DEPART	1,325	/	954	667	/	824	138	/	96	355	/	611	0									
PM	4:00 PM	103	273	12	14	173	6	12	60	82	31	48	8	822	0	0	0	0	0	0	3	0	0
	4:15 PM	68	244	21	6	150	5	15	58	72	14	56	13	722	0	0	0	0	0	0	4	0	0
	4:30 PM	59	251	13	9	180	7	16	85	108	24	30	9	791	1	0	0	0	1	0	2	0	0
	4:45 PM	65	246	19	15	130	10	7	48	76	17	23	8	664	0	0	0	0	0	0	3	0	0
	5:00 PM	66	225	15	15	165	6	11	74	100	32	30	7	746	0	0	0	0	0	0	1	0	0
	5:15 PM	48	229	15	16	179	4	11	92	103	21	30	12	760	0	0	0	0	0	0	4	0	0
	5:30 PM	72	259	10	8	143	8	19	56	101	20	27	9	732	1	0	0	0	1	0	5	0	0
	5:45 PM	64	248	14	9	120	8	9	50	53	16	16	11	618	0	0	0	0	0	0	4	0	0
	VOLUMES	545	1,975	119	92	1,240	54	100	523	695	175	260	77	5,855	2	0	0	0	2	0	26	0	0
	APPROACH %	21%	75%	5%	7%	89%	4%	8%	40%	53%	34%	51%	15%										
	APP/DEPART	2,639	/	2,152	1,386	/	2,112	1,318	/	734	512	/	857	0									
	BEGIN PEAK HR		4:00 PM																				
	VOLUMES	295	1,014	65	44	633	28	50	251	338	86	157	38	2,999						0	12	0	0
	APPROACH %	21%	74%	5%	6%	90%	4%	8%	39%	53%	31%	56%	14%										
	PEAK HR FACTOR		0.885			0.899			0.764			0.807		0.912									
	APP/DEPART	1,374	/	1,102	705	/	1,058	639	/	360	281	/	479	0									

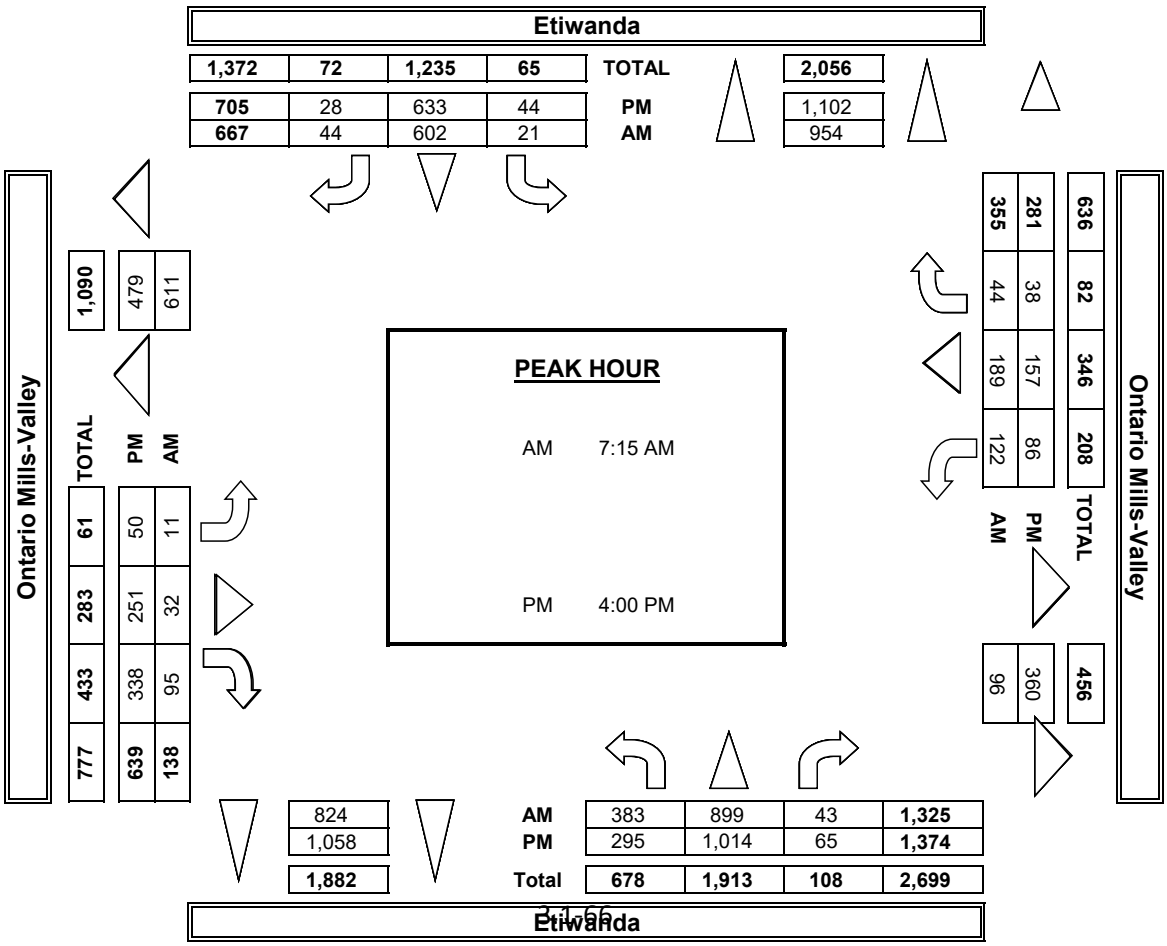


		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
AM	7:00 AM	0	2	0	0	2	0	2	0	0	2	0	0	0	0	0
	7:15 AM	0	2	0	0	2	0	2	0	0	2	0	0	0	0	0
	7:30 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	4	0	1	5	0	4	0	0	4	0	0	0	1	1
PM	4:00 PM	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	1	1	1	3	0	0	0	0	0	0	1	1	1	3

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	9
WEDNESDAY	EAST & WEST:	Valley	CONTROL:	SIGNAL

CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Etiwanda)			SOUTHBOUND (Etiwanda)			EASTBOUND (Valley)			WESTBOUND (Valley)			
	LANES:	NL 2	NT 2.5	NR 0.5	SL 1	ST 3	SR 0	EL 1	ET 2	ER 1	WL 2	WT 2	WR 1	TOTAL
AM	7:00 AM	51	180	3	3	82	6	0	4	9	17	43	2	400
	7:15 AM	89	193	5	0	84	5	1	6	7	22	32	7	451
	7:30 AM	106	201	8	3	124	16	2	7	18	21	57	7	570
	7:45 AM	86	192	6	3	110	11	2	10	19	25	56	12	532
	8:00 AM	70	180	4	5	93	10	2	4	15	11	30	7	431
	8:15 AM	70	161	8	4	104	3	4	8	10	14	25	3	414
	8:30 AM	52	133	5	3	73	10	1	2	17	14	17	6	333
	8:45 AM	40	140	12	4	74	12	1	6	12	12	18	4	335
	VOLUMES	564	1,380	51	25	744	73	13	47	107	136	278	48	3,466
	APPROACH %	28%	69%	3%	3%	88%	9%	8%	28%	64%	29%	60%	10%	
	APP/DEPART	1,995	/	1,441	842	/	997	167	/	123	462	/	905	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	346	766	23	11	411	42	7	27	59	79	175	33	1,984
	APPROACH %	30%	67%	2%	2%	89%	9%	8%	29%	63%	28%	61%	11%	
	PEAK HR FACTOR		0.905			0.811			0.750			0.772		0.870
	APP/DEPART	1,140	/	806	464	/	554	93	/	61	287	/	563	0
PM	4:00 PM	90	243	7	12	135	4	9	58	78	20	46	8	710
	4:15 PM	62	214	17	4	121	4	12	55	62	12	52	9	624
	4:30 PM	52	221	10	9	158	4	13	80	101	22	27	9	706
	4:45 PM	61	208	13	12	100	10	7	48	72	11	22	7	571
	5:00 PM	61	196	11	9	144	5	8	73	97	26	28	6	664
	5:15 PM	43	201	11	14	159	4	11	86	101	16	30	10	686
	5:30 PM	66	227	5	8	119	6	18	53	98	13	27	8	648
	5:45 PM	54	214	9	9	85	8	9	48	50	12	15	7	520
	VOLUMES	489	1,724	83	77	1,021	45	87	501	659	132	247	64	5,129
	APPROACH %	21%	75%	4%	7%	89%	4%	7%	40%	53%	30%	56%	14%	
	APP/DEPART	2,296	/	1,875	1,143	/	1,813	1,247	/	661	443	/	780	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	217	826	45	44	561	23	39	287	371	75	107	32	2,627
	APPROACH %	20%	76%	4%	7%	89%	4%	6%	41%	53%	35%	50%	15%	
	PEAK HR FACTOR		0.961			0.887			0.880			0.892		0.930
	APP/DEPART	1,088	/	897	628	/	1,007	697	/	376	214	/	347	0

U-TURNS					
NB	SB	EB	WB	TTL	
1	0	0	0	1	
1	0	0	0	1	
1	0	0	0	1	
1	0	0	0	1	
2	0	0	0	2	
1	0	0	0	1	
1	0	0	0	1	
2	0	0	0	2	
10	0	0	0	10	
1	0	0	0	1	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
1	0	0	0	1	
0	0	0	0	0	
1	0	0	0	1	

RTOR			
NRR X	SRR 0	ERR X	WRR X
0	3	0	0
0	3	0	0
0	5	0	0
0	3	0	0
0	4	0	0
0	0	0	0
0	3	0	0
0	3	0	0
0	24	0	0
0	15	0	0
0	2	0	0
0	4	0	0
0	2	0	0
0	3	0	0
0	1	0	0
0	4	0	0
0	5	0	0
0	4	0	0
0	25	0	0
0	10	0	0

Etiwanda

NORTH SIDE

Valley WEST SIDE EAST SIDE Valley

SOUTH SIDE

Etiwanda

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	9
WEDNESDAY	EAST & WEST:	Valley	CONTROL:	SIGNAL

CLASS 2:	NOTES:	AM		▲ N	
2-AXLE		PM			
WORK		MD	◄ W		E ►
VEHICLES/		OTHER		S	
TRUCKS		OTHER		▼	

		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND Valley			WESTBOUND Valley			
	LANES:	NL 2	NT 2.5	NR 0.5	SL 1	ST 3	SR 0	EL 1	ET 2	ER 1	WL 2	WT 2	WR 1	TOTAL
AM	7:00 AM	2	13	0	1	6	2	0	0	2	2	1	0	29
	7:15 AM	0	6	2	0	12	0	0	1	5	1	1	0	28
	7:30 AM	4	6	0	0	13	0	0	0	3	5	1	0	32
	7:45 AM	1	8	3	1	13	0	1	0	3	1	2	0	33
	8:00 AM	2	14	1	0	8	0	0	0	3	2	0	0	30
	8:15 AM	1	12	0	0	10	0	0	0	0	3	0	1	27
	8:30 AM	3	6	1	0	8	1	0	0	2	2	0	0	23
	8:45 AM	2	12	3	1	8	0	0	0	1	1	1	1	30
	VOLUMES	15	77	10	3	78	3	1	1	19	17	6	2	232
	APPROACH %	15%	75%	10%	4%	93%	4%	5%	5%	90%	68%	24%	8%	
	APP/DEPART	102	/	80	84	/	114	21	/	14	25	/	24	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	7	34	6	1	46	0	1	1	14	9	4	0	123
	APPROACH %	15%	72%	13%	2%	98%	0%	6%	6%	88%	69%	31%	0%	
	PEAK HR FACTOR		0.691			0.839			0.667			0.542		0.932
	APP/DEPART	47	/	35	47	/	69	16	/	8	13	/	11	0
PM	4:00 PM	4	7	1	0	5	0	0	0	1	2	0	0	20
	4:15 PM	4	4	0	0	4	1	0	0	0	0	1	1	15
	4:30 PM	3	4	0	0	5	1	0	2	4	0	0	0	19
	4:45 PM	1	9	0	1	1	0	0	0	2	4	1	0	19
	5:00 PM	2	6	0	1	3	0	1	0	0	0	1	0	14
	5:15 PM	2	5	1	0	4	0	0	1	1	1	0	1	16
	5:30 PM	1	9	0	0	1	0	0	2	1	2	0	0	16
	5:45 PM	2	4	1	0	6	0	0	0	0	2	1	0	16
	VOLUMES	19	48	3	2	29	2	1	5	9	11	4	2	135
	APPROACH %	27%	69%	4%	6%	88%	6%	7%	33%	60%	65%	24%	12%	
	APP/DEPART	70	/	51	33	/	49	15	/	10	17	/	25	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	12	24	1	1	15	2	0	2	7	6	2	1	73
	APPROACH %	32%	65%	3%	6%	83%	11%	0%	22%	78%	67%	22%	11%	
	PEAK HR FACTOR		0.771			0.750			0.375			0.450		0.913
	APP/DEPART	37	/	25	18	/	28	9	/	4	9	/	16	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR X	SRR 0	ERR X	WRR X
0	1	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	1	0	0
0	0	0	0
0	2	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Etiwanda

NORTH SIDE

Valley WEST SIDE EAST SIDE Valley

SOUTH SIDE

Etiwanda

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	9
WEDNESDAY	EAST & WEST:	Valley	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

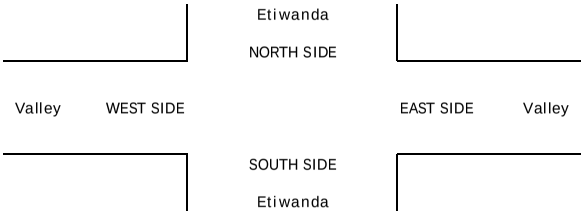
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND Valley			WESTBOUND Valley			
	LANES:	NL 2	NT 2.5	NR 0.5	SL 1	ST 3	SR 0	EL 1	ET 2	ER 1	WL 2	WT 2	WR 1	TOTAL
AM	7:00 AM	0	4	1	0	11	0	0	0	3	1	0	0	20
	7:15 AM	0	7	1	0	11	0	2	0	1	3	1	0	26
	7:30 AM	2	10	0	1	11	0	0	0	0	2	0	1	27
	7:45 AM	1	10	0	0	3	1	0	0	0	2	1	1	19
	8:00 AM	0	6	0	0	15	0	0	2	2	2	1	4	32
	8:15 AM	0	12	0	0	4	0	1	0	1	1	0	1	20
	8:30 AM	0	17	0	0	9	0	0	0	1	2	0	0	29
	8:45 AM	1	12	0	0	15	0	0	0	0	2	0	1	31
	VOLUMES	4	78	2	1	79	1	3	2	8	15	3	8	204
	APPROACH %	5%	93%	2%	1%	98%	1%	23%	15%	62%	58%	12%	31%	
	APP/DEPART	84	/	89	81	/	102	13	/	5	26	/	8	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	1	47	0	0	43	0	1	2	4	7	1	6	112
	APPROACH %	2%	98%	0%	0%	100%	0%	14%	29%	57%	50%	7%	43%	
	PEAK HR FACTOR		0.706			0.717			0.438			0.500		0.875
	APP/DEPART	48	/	54	43	/	54	7	/	2	14	/	2	0
PM	4:00 PM	0	12	0	1	13	1	0	1	0	2	0	0	30
	4:15 PM	1	4	1	2	7	0	2	3	2	0	0	1	23
	4:30 PM	3	8	1	0	5	1	0	0	1	0	1	0	20
	4:45 PM	0	10	2	1	10	0	0	0	1	0	0	1	25
	5:00 PM	0	6	1	5	8	0	0	1	1	0	0	1	23
	5:15 PM	1	6	0	0	4	0	0	3	0	3	0	0	17
	5:30 PM	0	3	1	0	3	1	1	0	0	1	0	0	10
	5:45 PM	0	7	1	0	10	0	0	0	0	0	0	2	20
	VOLUMES	5	56	7	9	60	3	3	8	5	6	1	5	168
	APPROACH %	7%	82%	10%	13%	83%	4%	19%	50%	31%	50%	8%	42%	
	APP/DEPART	68	/	64	72	/	72	16	/	24	12	/	8	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	3	34	4	4	35	2	2	4	4	2	1	2	98
	APPROACH %	7%	81%	10%	10%	85%	5%	20%	40%	40%	40%	20%	40%	
	PEAK HR FACTOR		0.875			0.683			0.357			0.625		0.817
	APP/DEPART	42	/	38	41	/	42	10	/	12	5	/	6	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
1	0	0	0	1	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
1	0	0	0	1	

RTOR			
NRR X	SRR 0	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

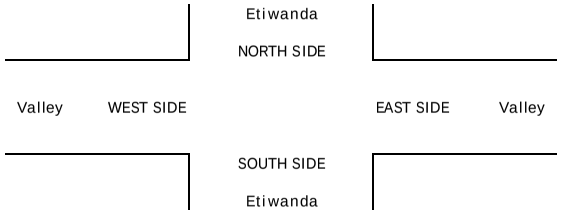
DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	9
WEDNESDAY	EAST & WEST:	Valley	CONTROL:	SIGNAL

CLASS 4:	NOTES:	AM	▲ N	
4 OR MORE AXLE TRUCKS		PM MD OTHER OTHER	◄ W	E ►
			S ▼	

		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND Valley			WESTBOUND Valley			
	LANES:	NL 2	NT 2.5	NR 0.5	SL 1	ST 3	SR 0	EL 1	ET 2	ER 1	WL 2	WT 2	WR 1	TOTAL
AM	7:00 AM	7	18	4	0	23	0	0	0	6	5	1	1	65
	7:15 AM	4	17	1	3	22	1	0	1	1	8	1	0	59
	7:30 AM	7	15	2	2	29	0	0	0	7	8	1	2	73
	7:45 AM	4	11	8	1	20	0	1	0	5	6	2	0	58
	8:00 AM	5	22	2	2	31	0	0	1	6	3	3	3	78
	8:15 AM	4	20	2	1	28	0	0	0	6	0	2	0	63
	8:30 AM	8	28	8	3	29	1	0	0	3	1	3	2	86
	8:45 AM	7	30	5	0	22	0	1	0	6	4	0	3	78
	VOLUMES	46	161	32	12	204	2	2	2	40	35	13	11	560
	APPROACH %	19%	67%	13%	6%	94%	1%	5%	5%	91%	59%	22%	19%	
	APP/DEPART	239	/	174	218	/	279	44	/	46	59	/	61	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	24	100	17	6	110	1	1	1	21	8	8	8	305
	APPROACH %	17%	71%	12%	5%	94%	1%	4%	4%	91%	33%	33%	33%	
	PEAK HR FACTOR		0.801			0.886			0.821			0.667		0.887
	APP/DEPART	141	/	109	117	/	139	23	/	24	24	/	33	0
PM	4:00 PM	9	11	4	1	20	1	3	1	3	7	2	0	62
	4:15 PM	1	22	3	0	18	0	1	0	8	2	3	2	60
	4:30 PM	1	17	2	0	12	1	3	3	2	2	2	0	45
	4:45 PM	3	19	4	1	19	0	0	0	1	2	0	0	49
	5:00 PM	3	17	3	0	10	1	2	0	2	6	1	0	45
	5:15 PM	2	17	3	2	12	0	0	2	1	1	0	1	41
	5:30 PM	5	19	4	0	20	0	0	1	2	4	0	1	56
	5:45 PM	8	22	3	0	19	0	0	2	3	2	0	2	61
	VOLUMES	32	144	26	4	130	3	9	9	22	26	8	6	419
	APPROACH %	16%	71%	13%	3%	95%	2%	23%	23%	55%	65%	20%	15%	
	APP/DEPART	202	/	159	137	/	178	40	/	39	40	/	43	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	14	69	13	2	69	2	7	4	14	13	7	2	216
	APPROACH %	15%	72%	14%	3%	95%	3%	28%	16%	56%	59%	32%	9%	
	PEAK HR FACTOR		0.923			0.830			0.694			0.611		0.871
	APP/DEPART	96	/	78	73	/	96	25	/	19	22	/	23	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
					0
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
					0

RTOR			
NRR X	SRR 0	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	1	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	1	0	0
0	1	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

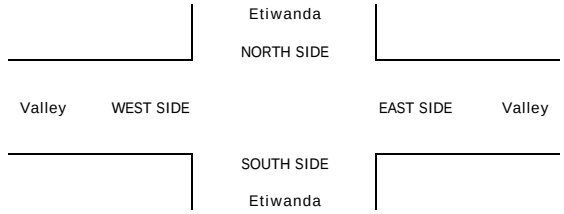
DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	9
WEDNESDAY	EAST & WEST:	Valley	CONTROL:	SIGNAL

CLASS 5:	NOTES:	AM		▲ N	
RV		PM			
		MD	◄ W		E ►
		OTHER		S ▼	
		OTHER			

		NORTHBOUND (Etiwanda)			SOUTHBOUND (Etiwanda)			EASTBOUND (Valley)			WESTBOUND (Valley)			
	LANES:	NL 2	NT 2.5	NR 0.5	SL 1	ST 3	SR 0	EL 1	ET 2	ER 1	WL 2	WT 2	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		3:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS				
NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR			
NRR X	SRR 0	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	9
WEDNESDAY	EAST & WEST:	Valley	CONTROL:	SIGNAL

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Etiwanda)			SOUTHBOUND (Etiwanda)			EASTBOUND (Valley)			WESTBOUND (Valley)			
	LANES:	NL 2	NT 2.5	NR 0.5	SL 1	ST 3	SR 0	EL 1	ET 2	ER 1	WL 2	WT 2	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	1	0	0	0	1	0	0	0	0	0	0	0	2
	7:30 AM	1	0	0	0	0	0	0	0	0	0	0	0	1
	7:45 AM	0	1	0	0	1	0	0	0	0	0	0	0	2
	8:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	2	2	0	0	3	0	0	0	0	0	0	0	7
	APPROACH %	50%	50%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	4	/	2	3	/	3	0	/	0	0	/	2	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	2	1	0	0	3	0	0	0	0	0	0	0	6
	APPROACH %	67%	33%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.750			0.750			0.000			0.000		0.750
	APP/DEPART	3	/	1	3	/	3	0	/	0	0	/	2	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	1	0	0	0	1	0	0	0	0	0	0	2
	5:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
	VOLUMES	0	3	0	0	0	1	0	0	0	0	0	0	4
	APPROACH %	0%	100%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	3	/	3	1	/	0	0	/	0	0	/	1	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	0	2	0	0	0	1	0	0	0	0	0	0	3
	APPROACH %	0%	100%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.500			0.250			0.000			0.000		0.375
	APP/DEPART	2	/	2	1	/	0	0	/	0	0	/	1	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
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0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR X	SRR 0	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Etiwanda
NORTH SIDE
Valley WEST SIDE
EAST SIDE Valley
SOUTH SIDE
Etiwanda

INTERSECTION TURNING MOVEMENT COUNTS

T1218

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
Wed, Mar 11, 20	NORTH & SOUTH:	Etiwanda	LOCATION #:	10
	EAST & WEST:	I-10 WB Ramps	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ◄ W — ▲ N — S ▼ — E ►

Add U-Turns to Left Turns

		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND I-10 WB Ramps			WESTBOUND I-10 WB Ramps			
	LANES:	NL X	NT 2	NR 1	SL X	ST 3	SR 1	EL X	ET X	ER X	WL 1.5	WT X	WR 1.5	TOTAL
AM	7:00 AM	0	136	42	0	118	50	0	0	0	106	0	147	599
	7:15 AM	0	124	53	0	115	64	0	0	0	104	0	202	662
	7:30 AM	0	178	104	0	173	69	0	0	0	116	0	184	824
	7:45 AM	0	151	141	0	155	54	0	0	0	131	0	175	807
	8:00 AM	0	158	110	0	128	66	0	0	0	94	0	148	704
	8:15 AM	0	143	121	0	111	71	0	0	0	88	0	147	681
	8:30 AM	0	144	113	0	97	55	0	0	0	90	0	118	617
	8:45 AM	0	140	88	0	101	58	0	0	0	56	0	124	567
	VOLUMES	0	1,174	772	0	998	487	0	0	0	785	0	1,245	5,461
	APPROACH %	0%	60%	40%	0%	67%	33%	0%	0%	0%	39%	0%	61%	
	APP/DEPART	1,946	/	2,419	1,485	/	1,783	0	/	772	2,030	/	487	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	630	476	0	567	260	0	0	0	429	0	654	3,016
	APPROACH %	0%	57%	43%	0%	69%	31%	0%	0%	0%	40%	0%	60%	
	PEAK HR FACTOR		0.947			0.854			0.000			0.885		0.915
	APP/DEPART	1,106	/	1,284	827	/	996	0	/	476	1,083	/	260	0
PM	4:00 PM	0	200	93	0	220	66	0	0	0	108	0	188	875
	4:15 PM	0	193	98	0	186	50	0	0	0	90	0	140	757
	4:30 PM	0	182	123	0	227	86	0	0	0	71	0	141	830
	4:45 PM	0	204	98	0	169	54	0	0	0	54	0	126	705
	5:00 PM	0	179	120	0	229	68	0	0	0	51	0	124	771
	5:15 PM	0	175	83	0	240	63	0	0	0	70	0	117	748
	5:30 PM	0	180	72	0	196	61	0	0	0	78	0	161	748
	5:45 PM	0	191	77	0	152	36	0	0	0	62	0	134	652
	VOLUMES	0	1,504	764	0	1,619	484	0	0	0	584	0	1,131	6,088
	APPROACH %	0%	66%	34%	0%	77%	23%	0%	0%	0%	34%	0%	66%	
	APP/DEPART	2,269	/	2,636	2,104	/	2,204	0	/	764	1,715	/	484	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	779	412	0	802	256	0	0	0	323	0	595	3,168
	APPROACH %	0%	65%	35%	0%	76%	24%	0%	0%	0%	35%	0%	65%	
	PEAK HR FACTOR		0.977			0.845			0.000			0.775		0.904
	APP/DEPART	1,192	/	1,374	1,058	/	1,126	0	/	412	918	/	256	0

U-TURNS					
NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	1
1	1	0	0	2

RTOR			
NRR X	SRR X	ERR X	WRR 0
0	0	0	46
0	0	0	70
0	0	0	32
0	0	0	46
0	0	0	42
0	0	0	46
0	0	0	35
0	0	0	35
0	0	0	352
0	0	0	166
0	0	0	51
0	0	0	44
0	0	0	44
0	0	0	34
0	0	0	47
0	0	0	41
0	0	0	57
0	0	0	39
0	0	0	357
0	0	0	173

Etiwanda

NORTH SIDE

I-10 WB Ramps — WEST SIDE — EAST SIDE — I-10 WB Ramps

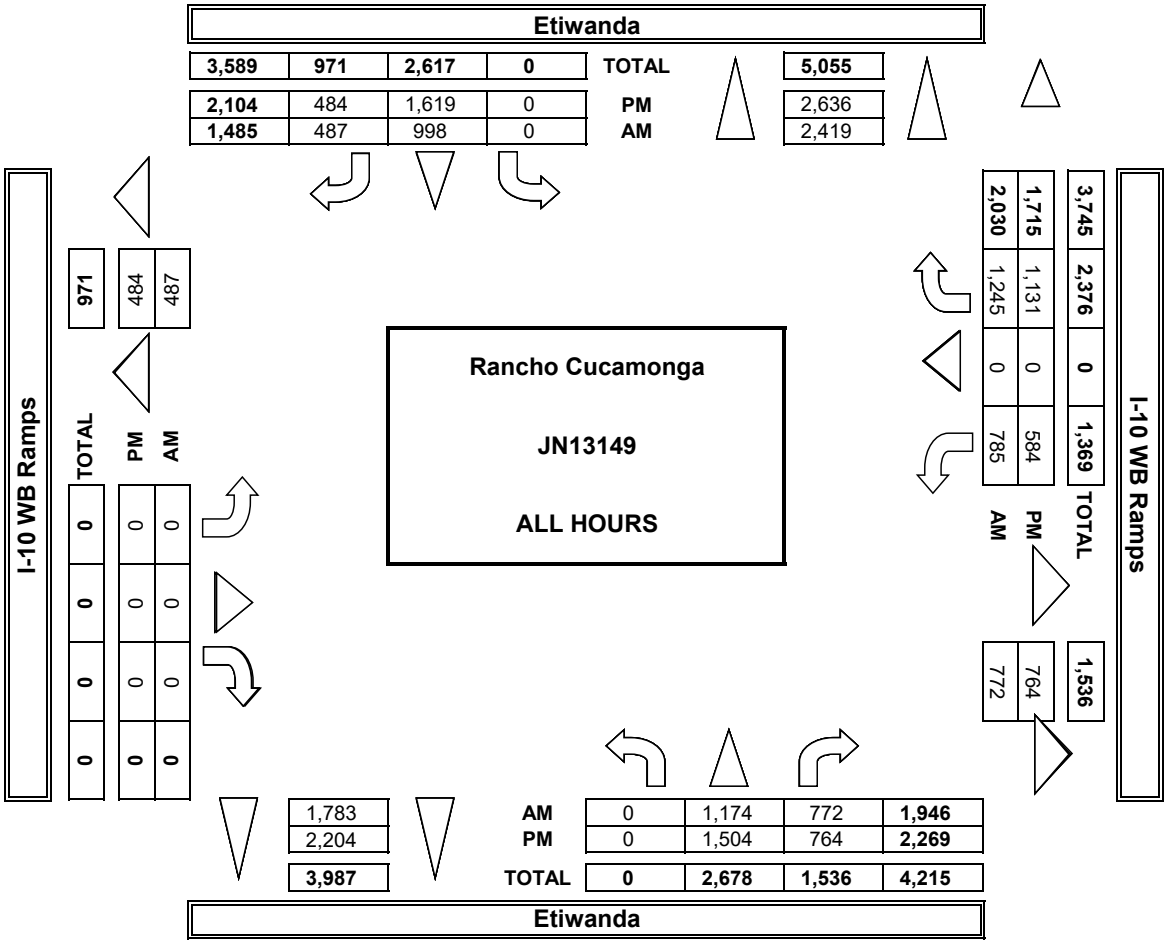
SOUTH SIDE

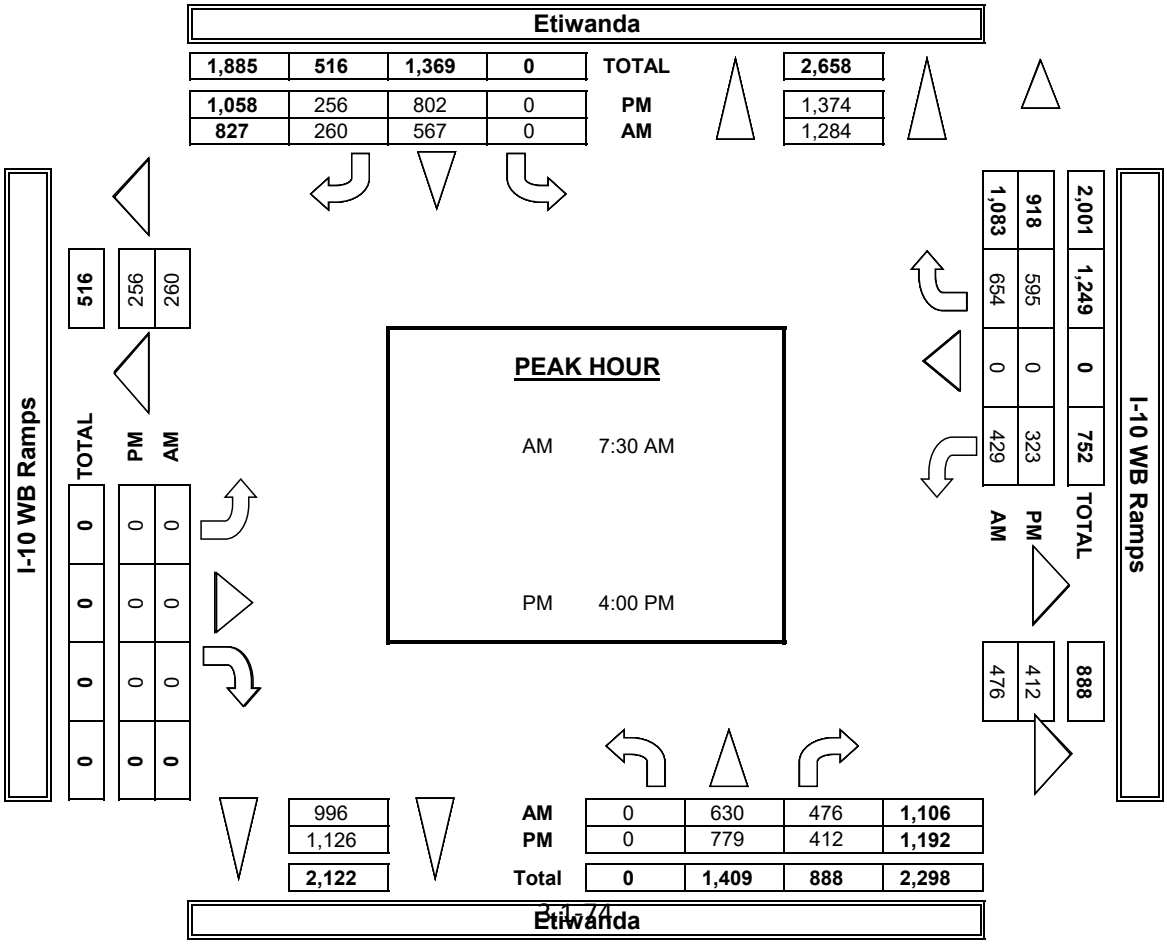
Etiwanda

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	10
WEDNESDAY	EAST & WEST:	I-10 WB Ramps	CONTROL:	SIGNAL

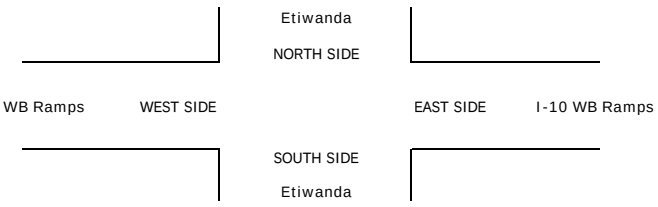
CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Etiwanda)			SOUTHBOUND (Etiwanda)			EASTBOUND (I-10 WB Ramps)			WESTBOUND (I-10 WB Ramps)			
	LANES:	NL X	NT 2	NR 1	SL X	ST 3	SR 1	EL X	ET X	ER X	WL 1.5	WT X	WR 1.5	TOTAL
AM	7:00 AM	0	96	27	0	83	26	0	0	0	98	0	138	468
	7:15 AM	0	97	32	0	77	37	0	0	0	92	0	190	525
	7:30 AM	0	138	74	0	132	32	0	0	0	103	0	177	656
	7:45 AM	0	115	110	0	124	31	0	0	0	115	0	164	659
	8:00 AM	0	119	76	0	86	35	0	0	0	74	0	135	525
	8:15 AM	0	105	82	0	90	39	0	0	0	64	0	134	514
	8:30 AM	0	89	69	0	64	31	0	0	0	70	0	101	424
	8:45 AM	0	89	49	0	70	30	0	0	0	40	0	103	381
	VOLUMES	0	848	519	0	726	261	0	0	0	656	0	1,142	4,152
	APPROACH %	0%	62%	38%	0%	74%	26%	0%	0%	0%	36%	0%	64%	
	APP/DEPART	1,367	/	1,990	987	/	1,382	0	/	519	1,798	/	261	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	469	292	0	419	135	0	0	0	384	0	666	2,365
	APPROACH %	0%	62%	38%	0%	76%	24%	0%	0%	0%	37%	0%	63%	
	PEAK HR FACTOR		0.846			0.845			0.000			0.931		0.897
	APP/DEPART	761	/	1,135	554	/	803	0	/	292	1,050	/	135	0
PM	4:00 PM	0	164	79	0	185	48	0	0	0	85	0	176	737
	4:15 PM	0	162	81	0	154	41	0	0	0	70	0	131	639
	4:30 PM	0	152	110	0	206	75	0	0	0	51	0	131	725
	4:45 PM	0	164	87	0	138	45	0	0	0	43	0	118	595
	5:00 PM	0	146	110	0	211	56	0	0	0	40	0	119	682
	5:15 PM	0	147	76	0	220	56	0	0	0	58	0	108	665
	5:30 PM	0	145	58	0	175	48	0	0	0	69	0	153	648
	5:45 PM	0	151	65	0	118	28	0	0	0	49	0	125	536
	VOLUMES	0	1,231	666	0	1,407	397	0	0	0	465	0	1,061	5,229
	APPROACH %	0%	65%	35%	0%	78%	22%	0%	0%	0%	30%	0%	70%	
	APP/DEPART	1,898	/	2,293	1,805	/	1,873	0	/	666	1,526	/	397	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	642	357	0	683	209	0	0	0	249	0	556	2,697
	APPROACH %	0%	64%	36%	0%	77%	23%	0%	0%	0%	31%	0%	69%	
	PEAK HR FACTOR		0.954			0.794			0.000			0.771		0.914
	APP/DEPART	1,000	/	1,198	892	/	933	0	/	357	805	/	209	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
1	0	0	0	1	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	1	0	0	1	
1	1	0	0	2	

RTOR			
NRR X	SRR X	ERR X	WRR 0
0	0	0	46
0	0	0	70
0	0	0	32
0	0	0	46
0	0	0	42
0	0	0	46
0	0	0	35
0	0	0	35
0	0	0	352
0	0	0	190
0	0	0	51
0	0	0	44
0	0	0	44
0	0	0	34
0	0	0	47
0	0	0	41
0	0	0	57
0	0	0	39
0	0	0	357
0	0	0	173



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	10
WEDNESDAY	EAST & WEST:	I-10 WB Ramps	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS	NOTES:	AM / PM / MD / OTHER / OTHER	▲ N / ◄ W / E ► / S ▼

		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND I-10 WB Ramps			WESTBOUND I-10 WB Ramps			
	LANES:	NL X	NT 2	NR 1	SL X	ST 3	SR 1	EL X	ET X	ER X	WL 1.5	WT X	WR 1.5	TOTAL
AM	7:00 AM	0	13	5	0	6	4	0	0	0	4	0	2	34
	7:15 AM	0	4	8	0	11	7	0	0	0	5	0	4	39
	7:30 AM	0	9	6	0	13	8	0	0	0	4	0	1	41
	7:45 AM	0	11	12	0	12	5	0	0	0	5	0	1	46
	8:00 AM	0	13	11	0	11	2	0	0	0	6	0	4	47
	8:15 AM	0	12	11	0	7	6	0	0	0	8	0	1	45
	8:30 AM	0	8	12	0	9	3	0	0	0	4	0	2	38
	8:45 AM	0	12	7	0	6	4	0	0	0	5	0	5	39
	VOLUMES	0	82	72	0	75	39	0	0	0	41	0	20	329
	APPROACH %	0%	53%	47%	0%	66%	34%	0%	0%	0%	67%	0%	33%	
	APP/DEPART	154	/	102	114	/	116	0	/	72	61	/	39	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	45	40	0	43	21	0	0	0	23	0	7	179
	APPROACH %	0%	53%	47%	0%	67%	33%	0%	0%	0%	77%	0%	23%	
	PEAK HR FACTOR		0.885			0.762			0.000			0.750		0.952
	APP/DEPART	85	/	52	64	/	66	0	/	40	30	/	21	0
PM	4:00 PM	0	7	1	0	7	1	0	0	0	11	0	5	32
	4:15 PM	0	6	5	0	4	0	0	0	0	8	0	2	25
	4:30 PM	0	5	0	0	7	2	0	0	0	5	0	2	21
	4:45 PM	0	9	2	0	7	0	0	0	0	4	0	1	23
	5:00 PM	0	6	5	0	2	1	0	0	0	2	0	2	18
	5:15 PM	0	6	2	0	6	0	0	0	0	3	0	2	19
	5:30 PM	0	8	1	0	3	1	0	0	0	1	0	2	16
	5:45 PM	0	6	5	0	7	1	0	0	0	2	0	1	22
	VOLUMES	0	53	21	0	43	6	0	0	0	36	0	17	176
	APPROACH %	0%	72%	28%	0%	88%	12%	0%	0%	0%	68%	0%	32%	
	APP/DEPART	74	/	70	49	/	79	0	/	21	53	/	6	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	27	8	0	25	3	0	0	0	28	0	10	101
	APPROACH %	0%	77%	23%	0%	89%	11%	0%	0%	0%	74%	0%	26%	
	PEAK HR FACTOR		0.795			0.778			0.000			0.594		0.789
	APP/DEPART	35	/	37	28	/	53	0	/	8	38	/	3	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR X	SRR X	ERR X	WRR 0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Etiwanda

NORTH SIDE

I-10 WB Ramps WEST SIDE EAST SIDE I-10 WB Ramps

SOUTH SIDE

Etiwanda

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	10
WEDNESDAY	EAST & WEST:	I-10 WB Ramps	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND I-10 WB Ramps			WESTBOUND I-10 WB Ramps			
	LANES:	NL X	NT 2	NR 1	SL X	ST 3	SR 1	EL X	ET X	ER X	WL 1.5	WT X	WR 1.5	TOTAL
AM	7:00 AM	0	4	1	0	11	4	0	0	0	1	0	1	22
	7:15 AM	0	8	2	0	7	8	0	0	0	1	0	0	26
	7:30 AM	0	11	2	0	8	5	0	0	0	2	0	1	29
	7:45 AM	0	8	3	0	3	2	0	0	0	0	0	3	19
	8:00 AM	0	4	2	0	8	11	0	0	0	1	0	2	28
	8:15 AM	0	9	4	0	1	5	0	0	0	1	0	3	23
	8:30 AM	0	14	7	0	7	5	0	0	0	5	0	3	41
	8:45 AM	0	13	3	0	10	7	0	0	0	0	0	0	33
	VOLUMES	0	71	24	0	55	47	0	0	0	11	0	13	221
	APPROACH %	0%	75%	25%	0%	54%	46%	0%	0%	0%	46%	0%	54%	
	APP/DEPART	95	/	84	102	/	66	0	/	24	24	/	47	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	0	40	16	0	26	28	0	0	0	7	0	8	125
	APPROACH %	0%	71%	29%	0%	48%	52%	0%	0%	0%	47%	0%	53%	
	PEAK HR FACTOR		0.667			0.711			0.000			0.469		0.762
	APP/DEPART	56	/	48	54	/	33	0	/	16	15	/	28	0
PM	4:00 PM	0	11	0	0	5	10	0	0	0	0	0	1	27
	4:15 PM	0	6	1	0	6	3	0	0	0	2	0	0	18
	4:30 PM	0	10	0	0	4	3	0	0	0	4	0	2	23
	4:45 PM	0	11	2	0	7	4	0	0	0	1	0	1	26
	5:00 PM	0	6	1	0	3	6	0	0	0	1	0	1	18
	5:15 PM	0	5	1	0	5	2	0	0	0	0	0	2	15
	5:30 PM	0	4	3	0	3	1	0	0	0	2	0	0	13
	5:45 PM	0	8	2	0	8	2	0	0	0	2	0	0	22
	VOLUMES	0	61	10	0	41	31	0	0	0	12	0	7	162
	APPROACH %	0%	86%	14%	0%	57%	43%	0%	0%	0%	63%	0%	37%	
	APP/DEPART	71	/	68	72	/	53	0	/	10	19	/	31	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	38	3	0	22	20	0	0	0	7	0	4	94
	APPROACH %	0%	93%	7%	0%	52%	48%	0%	0%	0%	64%	0%	36%	
	PEAK HR FACTOR		0.788			0.700			0.000			0.458		0.870
	APP/DEPART	41	/	42	42	/	29	0	/	3	11	/	20	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR X	SRR X	ERR X	WRR 0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Etiwanda

NORTH SIDE

I-10 WB Ramps — WEST SIDE — EAST SIDE — I-10 WB Ramps

SOUTH SIDE

Etiwanda

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	10
WEDNESDAY	EAST & WEST:	I-10 WB Ramps	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

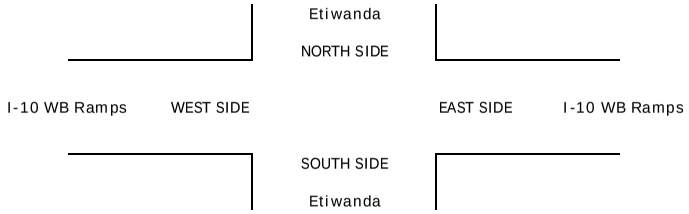
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND I-10 WB Ramps			WESTBOUND I-10 WB Ramps			
	LANES:	NL X	NT 2	NR 1	SL X	ST 3	SR 1	EL X	ET X	ER X	WL 1.5	WT X	WR 1.5	TOTAL
AM	7:00 AM	0	23	9	0	18	16	0	0	0	3	0	6	75
	7:15 AM	0	14	11	0	19	12	0	0	0	6	0	8	70
	7:30 AM	0	20	22	0	20	24	0	0	0	7	0	4	97
	7:45 AM	0	16	16	0	15	16	0	0	0	11	0	7	81
	8:00 AM	0	22	21	0	22	18	0	0	0	13	0	7	103
	8:15 AM	0	17	24	0	13	21	0	0	0	15	0	9	99
	8:30 AM	0	33	25	0	17	16	0	0	0	11	0	11	113
	8:45 AM	0	26	29	0	15	17	0	0	0	11	0	16	114
	VOLUMES	0	171	157	0	139	140	0	0	0	77	0	68	752
	APPROACH %	0%	52%	48%	0%	50%	50%	0%	0%	0%	53%	0%	47%	
	APP/DEPART	328	/	239	279	/	216	0	/	157	145	/	140	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	0	98	99	0	67	72	0	0	0	50	0	43	429
	APPROACH %	0%	50%	50%	0%	48%	52%	0%	0%	0%	54%	0%	46%	
	PEAK HR FACTOR		0.849			0.869			0.000			0.861		0.941
	APP/DEPART	197	/	141	139	/	117	0	/	99	93	/	72	0
PM	4:00 PM	0	18	13	0	23	7	0	0	0	12	0	6	79
	4:15 PM	0	19	11	0	22	6	0	0	0	10	0	7	75
	4:30 PM	0	14	13	0	10	6	0	0	0	10	0	6	59
	4:45 PM	0	20	7	0	17	5	0	0	0	6	0	6	61
	5:00 PM	0	21	4	0	13	5	0	0	0	8	0	2	53
	5:15 PM	0	17	4	0	9	5	0	0	0	9	0	5	49
	5:30 PM	0	23	10	0	15	11	0	0	0	6	0	5	70
	5:45 PM	0	26	5	0	19	5	0	0	0	9	0	7	71
	VOLUMES	0	158	67	0	128	50	0	0	0	70	0	44	517
	APPROACH %	0%	70%	30%	0%	72%	28%	0%	0%	0%	61%	0%	39%	
	APP/DEPART	225	/	202	178	/	198	0	/	67	114	/	50	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	71	44	0	72	24	0	0	0	38	0	25	274
	APPROACH %	0%	62%	38%	0%	75%	25%	0%	0%	0%	60%	0%	40%	
	PEAK HR FACTOR		0.927			0.800			0.000			0.875		0.867
	APP/DEPART	115	/	96	96	/	110	0	/	44	63	/	24	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR X	SRR X	ERR X	WRR 0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

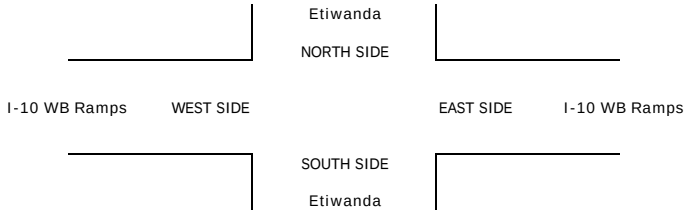
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	10
WEDNESDAY	EAST & WEST:	I-10 WB Ramps	CONTROL:	SIGNAL

CLASS 5:	NOTES:	AM		▲ N	
RV		PM			
		MD	◄ W		E ►
		OTHER		S ▼	
		OTHER			

	NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND I-10 WB Ramps			WESTBOUND I-10 WB Ramps			
LANES:	NL X	NT 2	NR 1	SL X	ST 3	SR 1	EL X	ET X	ER X	WL 1.5	WT X	WR 1.5	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
AM VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
AM APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
AM APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
BEGIN PEAK HR		7:00 AM											
AM VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
AM APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
AM APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
PM VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
PM APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
PM APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
BEGIN PEAK HR		3:00 PM											
PM VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
PM APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
PM APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS					RTOR			
NB	SB	EB	WB	TTL	NRR X	SRR X	ERR X	WRR 0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
					0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
					0	0	0	0



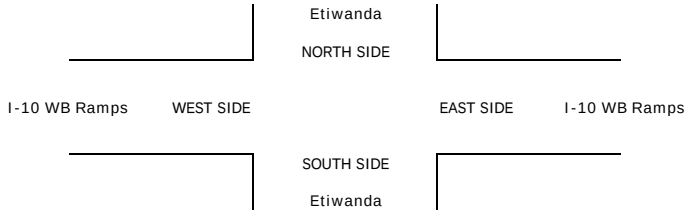
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	10
WEDNESDAY	EAST & WEST:	I-10 WB Ramps	CONTROL:	SIGNAL

CLASS 6:	NOTES:	AM / PM / MD / OTHER / OTHER	▲ N / ◄ W / E ► / S ▼
BUSES			

		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND I-10 WB Ramps			WESTBOUND I-10 WB Ramps				U-TURNS					RTOR			
	LANES:	NL X	NT 2	NR 1	SL X	ST 3	SR 1	EL X	ET X	ER X	WL 1.5	WT X	WR 1.5	TOTAL	NB	SB	EB	WB	TTL	NRR X	SRR X	ERR X	WRR 0
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	7:45 AM	0	1	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	2	0	0	3	0	0	0	0	0	0	2	7	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%										
	APP/DEPART	2	/	4	3	/	3	0	/	0	2	/	0	0									
	BEGIN PEAK HR		7:15 AM																				
	VOLUMES	0	2	0	0	3	0	0	0	0	0	0	1	6						0	0	0	0
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%										
	PEAK HR FACTOR		0.500			0.750			0.000			0.250		0.750									
	APP/DEPART	2	/	3	3	/	3	0	/	0	1	/	0	0									
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	1	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	VOLUMES	0	1	0	0	0	0	0	0	0	1	0	2	4	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	0%	33%	0%	67%										
	APP/DEPART	1	/	3	0	/	1	0	/	0	3	/	0	0									
	BEGIN PEAK HR		4:30 PM																				
	VOLUMES	0	1	0	0	0	0	0	0	0	1	0	0	2						0	0	0	0
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%										
	PEAK HR FACTOR		0.250			0.000			0.000			0.250		0.250									
	APP/DEPART	1	/	1	0	/	1	0	/	0	1	/	0	0									



INTERSECTION TURNING MOVEMENT COUNTS

T1218

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
Wed, Mar 11, 20	NORTH & SOUTH:	Etiwanda	LOCATION #:	11
	EAST & WEST:	I-10 EB Ramps	CONTROL:	SIGNAL

NOTES:

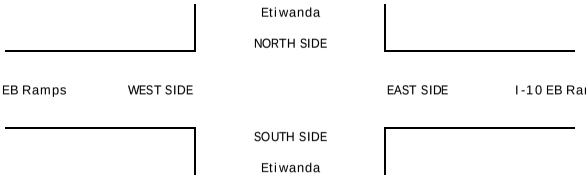
AM / PM / MD / OTHER / OTHER — ◄ W — N ▲ — S ▼ — E ►

Add U-Turns to Left Turns

		NORTHBOUND (Etiwanda)			SOUTHBOUND (Etiwanda)			EASTBOUND (I-10 EB Ramps)			WESTBOUND (I-10 EB Ramps)			
	LANES:	NL X	NT 3	NR 1	SL X	ST 2	SR 1	EL 1.5	ET X	ER 1.5	WL X	WT X	WR X	TOTAL
AM	7:00 AM	0	141	57	0	201	23	37	0	131	0	0	0	590
	7:15 AM	0	140	59	0	195	24	42	0	126	0	0	0	586
	7:30 AM	0	238	65	0	268	21	44	0	112	0	0	0	748
	7:45 AM	0	255	59	0	258	28	37	0	157	0	0	0	794
	8:00 AM	0	237	62	0	200	27	31	0	106	0	0	0	663
	8:15 AM	0	242	57	0	161	38	22	0	84	0	0	0	604
	8:30 AM	0	216	56	0	162	25	41	0	101	0	0	0	601
	8:45 AM	0	198	55	0	124	33	30	0	80	0	0	0	520
	VOLUMES	0	1,667	470	0	1,569	219	284	0	897	0	0	0	5,106
	APPROACH %	0%	78%	22%	0%	88%	12%	24%	0%	76%	0%	0%	0%	
	APP/DEPART	2,137	/	1,951	1,788	/	2,466	1,181	/	470	0	/	219	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	972	243	0	887	114	134	0	459	0	0	0	2,809
	APPROACH %	0%	80%	20%	0%	89%	11%	23%	0%	77%	0%	0%	0%	
	PEAK HR FACTOR		0.967			0.866			0.764			0.000		0.884
	APP/DEPART	1,215	/	1,106	1,001	/	1,346	593	/	243	0	/	114	0
PM	4:00 PM	0	262	118	0	232	97	32	0	64	0	0	0	805
	4:15 PM	0	249	72	0	200	78	42	0	64	0	0	0	705
	4:30 PM	0	270	116	0	216	82	28	0	50	0	0	0	762
	4:45 PM	0	259	103	0	158	65	43	0	47	0	0	0	675
	5:00 PM	0	271	105	0	196	84	28	0	51	0	0	0	735
	5:15 PM	0	234	105	0	211	99	24	0	60	0	0	0	733
	5:30 PM	0	218	90	0	202	72	34	0	63	0	0	0	679
	5:45 PM	0	235	72	0	156	58	33	0	52	0	0	0	606
	VOLUMES	0	1,998	781	0	1,571	635	264	0	451	0	0	0	5,700
	APPROACH %	0%	72%	28%	0%	71%	29%	37%	0%	63%	0%	0%	0%	
	APP/DEPART	2,779	/	2,262	2,206	/	2,022	715	/	781	0	/	635	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	1,040	409	0	806	322	145	0	225	0	0	0	2,947
	APPROACH %	0%	72%	28%	0%	71%	29%	39%	0%	61%	0%	0%	0%	
	PEAK HR FACTOR		0.938			0.857			0.873			0.000		0.915
	APP/DEPART	1,449	/	1,185	1,128	/	1,031	370	/	409	0	/	322	0

U-TURNS					
	NB	SB	EB	WB	TTL
	0	0	0	0	
AM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
PM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

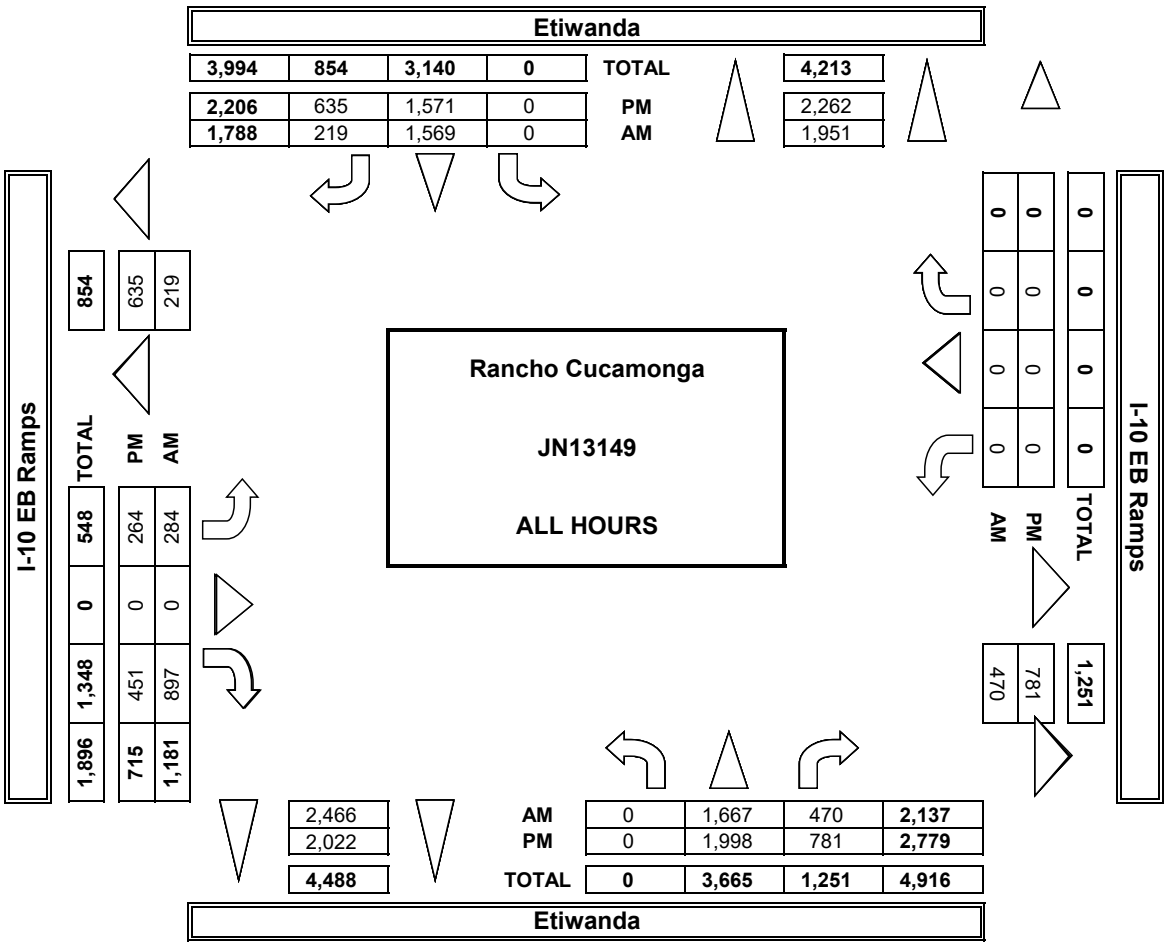
RTOR				
	NRR	SRR	ERR	WRR
	X	X	0	X
AM	0	0	31	0
	0	0	39	0
	0	0	17	0
	0	0	24	0
	0	0	27	0
	0	0	26	0
	0	0	38	0
	0	0	37	0
	0	0	239	0
	0	0	94	0
PM	0	0	18	0
	0	0	20	0
	0	0	19	0
	0	0	26	0
	0	0	10	0
	0	0	24	0
	0	0	21	0
	0	0	24	0
	0	0	162	0
	0	0	83	0

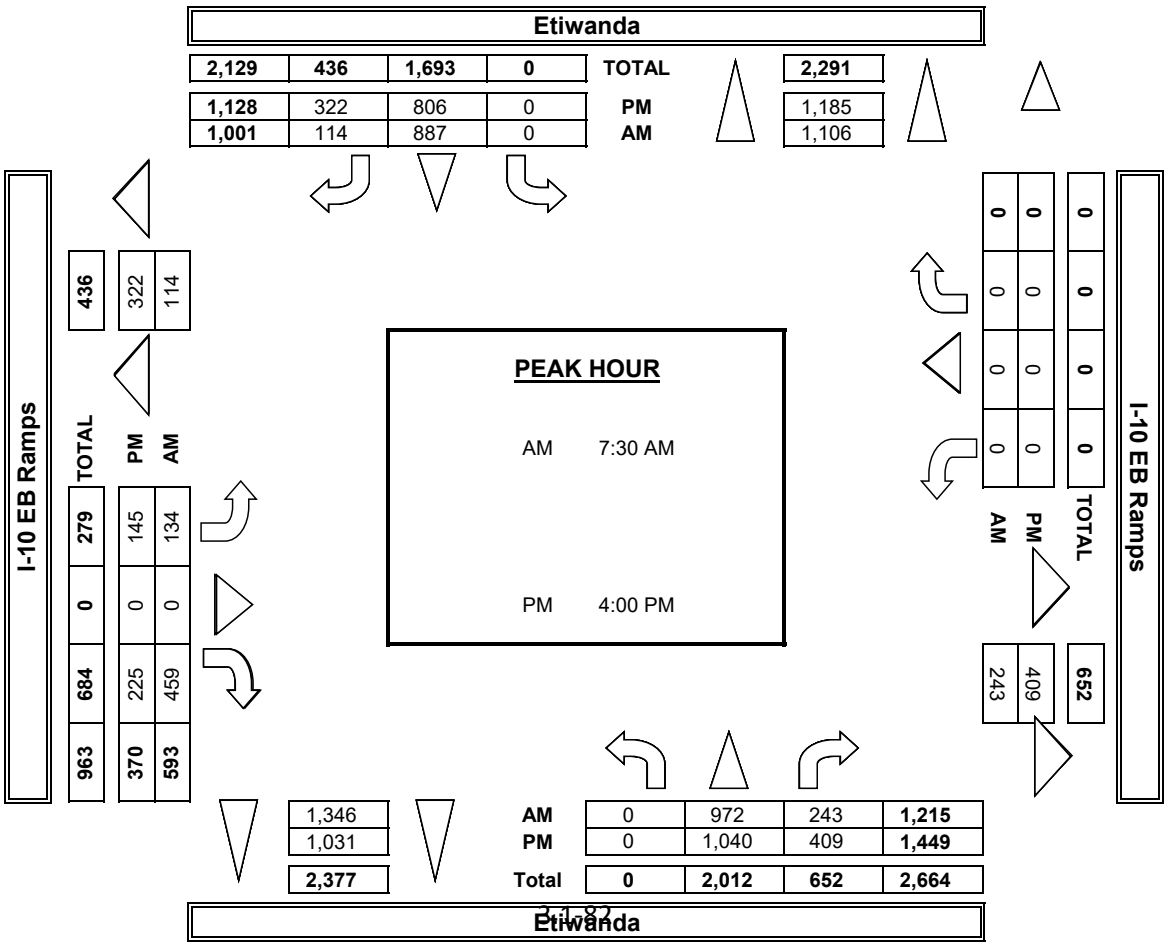


		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	11
WEDNESDAY	EAST & WEST:	I-10 EB Ramps	CONTROL:	SIGNAL

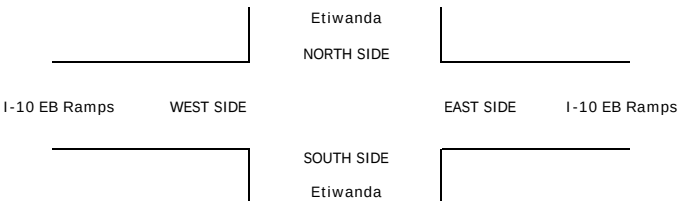
CLASS 1:	NOTES:
PASSENGER VEHICLES	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Etiwanda)			SOUTHBOUND (Etiwanda)			EASTBOUND (I-10 EB Ramps)			WESTBOUND (I-10 EB Ramps)			
	LANES:	NL X	NT 3	NR 1	SL X	ST 2	SR 1	EL 1.5	ET X	ER 1.5	WL X	WT X	WR X	TOTAL
AM	7:00 AM	0	102	44	0	167	14	21	0	101	0	0	0	449
	7:15 AM	0	107	40	0	153	16	27	0	104	0	0	0	447
	7:30 AM	0	186	45	0	219	16	26	0	93	0	0	0	585
	7:45 AM	0	205	40	0	222	17	20	0	134	0	0	0	638
	8:00 AM	0	184	41	0	149	16	11	0	76	0	0	0	477
	8:15 AM	0	179	34	0	122	32	8	0	61	0	0	0	436
	8:30 AM	0	146	24	0	118	16	12	0	71	0	0	0	387
	8:45 AM	0	131	28	0	89	21	7	0	61	0	0	0	337
	VOLUMES	0	1,240	296	0	1,239	148	132	0	701	0	0	0	3,756
	APPROACH %	0%	81%	19%	0%	89%	11%	16%	0%	84%	0%	0%	0%	
	APP/DEPART	1,536	/	1,372	1,387	/	1,940	833	/	296	0	/	148	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	682	166	0	743	65	84	0	407	0	0	0	2,147
	APPROACH %	0%	80%	20%	0%	92%	8%	17%	0%	83%	0%	0%	0%	
	PEAK HR FACTOR		0.865			0.845			0.797			0.000		0.841
	APP/DEPART	848	/	766	808	/	1,150	491	/	166	0	/	65	0
PM	4:00 PM	0	224	102	0	177	94	20	0	47	0	0	0	664
	4:15 PM	0	212	67	0	159	67	31	0	39	0	0	0	575
	4:30 PM	0	235	111	0	177	80	20	0	37	0	0	0	660
	4:45 PM	0	227	85	0	124	57	24	0	36	0	0	0	553
	5:00 PM	0	241	88	0	172	79	15	0	42	0	0	0	637
	5:15 PM	0	206	83	0	181	97	17	0	47	0	0	0	631
	5:30 PM	0	178	77	0	179	65	25	0	41	0	0	0	565
	5:45 PM	0	198	63	0	118	49	18	0	33	0	0	0	479
	VOLUMES	0	1,721	676	0	1,287	588	170	0	322	0	0	0	4,764
	APPROACH %	0%	72%	28%	0%	69%	31%	35%	0%	65%	0%	0%	0%	
	APP/DEPART	2,397	/	1,891	1,875	/	1,609	492	/	676	0	/	588	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	0	909	367	0	654	313	76	0	162	0	0	0	2,481
	APPROACH %	0%	71%	29%	0%	68%	32%	32%	0%	68%	0%	0%	0%	
	PEAK HR FACTOR		0.922			0.870			0.930			0.000		0.940
	APP/DEPART	1,276	/	985	967	/	816	238	/	367	0	/	313	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR X	SRR X	ERR 0	WRR X
0	0	23	0
0	0	33	0
0	0	14	0
0	0	23	0
0	0	16	0
0	0	17	0
0	0	29	0
0	0	32	0
0	0	187	0
0	0	86	0
0	0	10	0
0	0	9	0
0	0	15	0
0	0	18	0
0	0	10	0
0	0	16	0
0	0	13	0
0	0	15	0
0	0	106	0
0	0	59	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

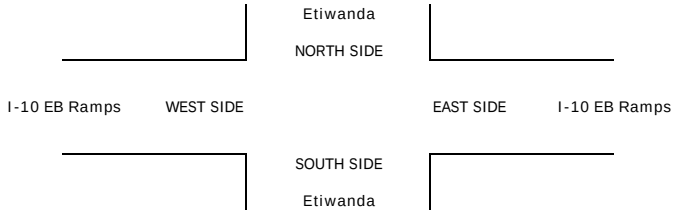
DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	11
WEDNESDAY	EAST & WEST:	I-10 EB Ramps	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS	NOTES:	AM / PM / MD / OTHER / OTHER	▲ N / ◄ W / E ► / S ▼

		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND I-10 EB Ramps			WESTBOUND I-10 EB Ramps			
	LANES:	NL X	NT 3	NR 1	SL X	ST 2	SR 1	EL 1.5	ET X	ER 1.5	WL X	WT X	WR X	TOTAL
AM	7:00 AM	0	17	4	0	9	1	1	0	9	0	0	0	41
	7:15 AM	0	10	8	0	14	2	2	0	6	0	0	0	42
	7:30 AM	0	13	7	0	15	2	2	0	3	0	0	0	42
	7:45 AM	0	19	8	0	13	4	4	0	4	0	0	0	52
	8:00 AM	0	22	6	0	15	2	2	0	8	0	0	0	55
	8:15 AM	0	22	4	0	15	0	1	0	5	0	0	0	47
	8:30 AM	0	18	9	0	12	1	2	0	8	0	0	0	50
	8:45 AM	0	16	5	0	11	0	3	0	6	0	0	0	41
	VOLUMES	0	137	51	0	104	12	17	0	49	0	0	0	370
	APPROACH %	0%	73%	27%	0%	90%	10%	26%	0%	74%	0%	0%	0%	
	APP/DEPART	188	/	154	116	/	153	66	/	51	0	/	12	0
	BEGIN PEAK HR		7:45 AM											
	VOLUMES	0	81	27	0	55	7	9	0	25	0	0	0	204
	APPROACH %	0%	75%	25%	0%	89%	11%	26%	0%	74%	0%	0%	0%	
	PEAK HR FACTOR		0.964			0.912			0.850			0.000		0.927
	APP/DEPART	108	/	90	62	/	80	34	/	27	0	/	7	0
PM	4:00 PM	0	7	4	0	17	1	1	0	3	0	0	0	33
	4:15 PM	0	11	3	0	9	3	0	0	7	0	0	0	33
	4:30 PM	0	5	0	0	12	0	0	0	2	0	0	0	19
	4:45 PM	0	5	4	0	9	2	6	0	3	0	0	0	29
	5:00 PM	0	10	5	0	1	3	1	0	2	0	0	0	22
	5:15 PM	0	7	2	0	9	0	1	0	3	0	0	0	22
	5:30 PM	0	9	5	0	4	0	0	0	6	0	0	0	24
	5:45 PM	0	9	0	0	6	3	2	0	3	0	0	0	23
	VOLUMES	0	63	23	0	67	12	11	0	29	0	0	0	205
	APPROACH %	0%	73%	27%	0%	85%	15%	28%	0%	73%	0%	0%	0%	
	APP/DEPART	86	/	74	79	/	96	40	/	23	0	/	12	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	28	11	0	47	6	7	0	15	0	0	0	114
	APPROACH %	0%	72%	28%	0%	89%	11%	32%	0%	68%	0%	0%	0%	
	PEAK HR FACTOR		0.696			0.736			0.611			0.000		0.864
	APP/DEPART	39	/	35	53	/	62	22	/	11	0	/	6	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR X	SRR X	ERR 0	WRR X
0	0	3	0
0	0	4	0
0	0	1	0
0	0	0	0
0	0	2	0
0	0	3	0
0	0	3	0
0	0	4	0
0	0	20	0
0	0	8	0
0	0	2	0
0	0	1	0
0	0	1	0
0	0	3	0
0	0	0	0
0	0	1	0
0	0	2	0
0	0	1	0
0	0	11	0
0	0	7	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	11
WEDNESDAY	EAST & WEST:	I-10 EB Ramps	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

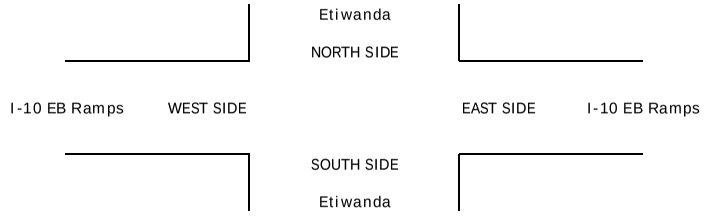
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND I-10 EB Ramps			WESTBOUND I-10 EB Ramps			
	LANES:	NL X	NT 3	NR 1	SL X	ST 2	SR 1	EL 1.5	ET X	ER 1.5	WL X	WT X	WR X	TOTAL
AM	7:00 AM	0	3	0	0	12	0	2	0	3	0	0	0	20
	7:15 AM	0	5	1	0	8	0	5	0	0	0	0	0	19
	7:30 AM	0	7	3	0	8	2	6	0	0	0	0	0	26
	7:45 AM	0	6	1	0	2	1	5	0	1	0	0	0	16
	8:00 AM	0	3	0	0	7	2	3	0	3	0	0	0	18
	8:15 AM	0	8	2	0	2	0	5	0	4	0	0	0	21
	8:30 AM	0	14	3	0	11	1	7	0	3	0	0	0	39
	8:45 AM	0	9	5	0	5	5	7	0	1	0	0	0	32
	VOLUMES	0	55	15	0	55	11	40	0	15	0	0	0	191
	APPROACH %	0%	79%	21%	0%	83%	17%	73%	0%	27%	0%	0%	0%	
	APP/DEPART	70	/	95	66	/	70	55	/	15	0	/	11	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	0	34	10	0	25	8	22	0	11	0	0	0	110
	APPROACH %	0%	77%	23%	0%	76%	24%	67%	0%	33%	0%	0%	0%	
	PEAK HR FACTOR		0.647			0.688			0.825			0.000		0.705
	APP/DEPART	44	/	56	33	/	36	33	/	10	0	/	8	0
PM	4:00 PM	0	8	3	0	4	1	3	0	0	0	0	0	19
	4:15 PM	0	7	0	0	8	0	0	0	5	0	0	0	20
	4:30 PM	0	7	0	0	8	0	3	0	1	0	0	0	19
	4:45 PM	0	8	1	0	8	0	5	0	3	0	0	0	25
	5:00 PM	0	3	0	0	4	0	4	0	1	0	0	0	12
	5:15 PM	0	5	4	0	4	1	1	0	1	0	0	0	16
	5:30 PM	0	7	1	0	5	0	0	0	2	0	0	0	15
	5:45 PM	0	9	3	0	8	2	1	0	0	0	0	0	23
	VOLUMES	0	54	12	0	49	4	17	0	13	0	0	0	149
	APPROACH %	0%	82%	18%	0%	92%	8%	57%	0%	43%	0%	0%	0%	
	APP/DEPART	66	/	71	53	/	62	30	/	12	0	/	4	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	30	4	0	28	1	11	0	9	0	0	0	83
	APPROACH %	0%	88%	12%	0%	97%	3%	55%	0%	45%	0%	0%	0%	
	PEAK HR FACTOR		0.773			0.906			0.625			0.000		0.830
	APP/DEPART	34	/	41	29	/	37	20	/	4	0	/	1	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR X	SRR X	ERR 0	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	2	0
0	0	3	0
0	0	1	0
0	0	0	0
0	0	6	0
0	0	6	0
0	0	0	0
0	0	3	0
0	0	0	0
0	0	2	0
0	0	0	0
0	0	1	0
0	0	1	0
0	0	0	0
0	0	7	0
0	0	5	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	11
WEDNESDAY	EAST & WEST:	I-10 EB Ramps	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

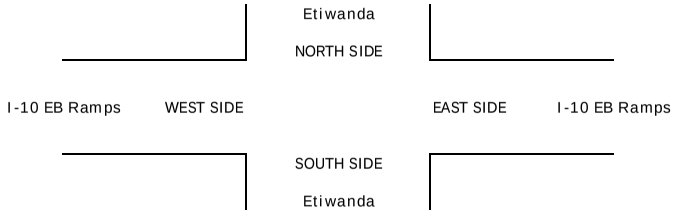
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND I-10 EB Ramps			WESTBOUND I-10 EB Ramps			
	LANES:	NL X	NT 3	NR 1	SL X	ST 2	SR 1	EL 1.5	ET X	ER 1.5	WL X	WT X	WR X	TOTAL
AM	7:00 AM	0	19	9	0	13	8	13	0	18	0	0	0	80
	7:15 AM	0	17	10	0	19	6	8	0	16	0	0	0	76
	7:30 AM	0	32	10	0	26	1	10	0	16	0	0	0	95
	7:45 AM	0	24	10	0	21	5	8	0	18	0	0	0	86
	8:00 AM	0	28	15	0	28	7	15	0	19	0	0	0	112
	8:15 AM	0	33	17	0	22	6	8	0	14	0	0	0	100
	8:30 AM	0	38	20	0	21	7	20	0	19	0	0	0	125
	8:45 AM	0	42	17	0	19	7	13	0	12	0	0	0	110
	VOLUMES	0	233	108	0	169	47	95	0	132	0	0	0	784
	APPROACH %	0%	68%	32%	0%	78%	22%	42%	0%	58%	0%	0%	0%	
	APP/DEPART	341	/	328	216	/	301	227	/	108	0	/	47	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	0	141	69	0	90	27	56	0	64	0	0	0	447
	APPROACH %	0%	67%	33%	0%	77%	23%	47%	0%	53%	0%	0%	0%	
	PEAK HR FACTOR		0.890			0.836			0.769			0.000		0.894
	APP/DEPART	210	/	197	117	/	154	120	/	69	0	/	27	0
PM	4:00 PM	0	23	9	0	34	1	8	0	14	0	0	0	89
	4:15 PM	0	19	2	0	24	8	11	0	13	0	0	0	77
	4:30 PM	0	22	5	0	18	2	5	0	10	0	0	0	62
	4:45 PM	0	19	13	0	17	6	8	0	5	0	0	0	68
	5:00 PM	0	17	12	0	19	2	8	0	6	0	0	0	64
	5:15 PM	0	16	16	0	17	1	5	0	9	0	0	0	64
	5:30 PM	0	24	7	0	14	7	9	0	14	0	0	0	75
	5:45 PM	0	19	6	0	24	4	12	0	16	0	0	0	81
	VOLUMES	0	159	70	0	167	31	66	0	87	0	0	0	580
	APPROACH %	0%	69%	31%	0%	84%	16%	43%	0%	57%	0%	0%	0%	
	APP/DEPART	229	/	225	198	/	254	153	/	70	0	/	31	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	83	29	0	93	17	32	0	42	0	0	0	296
	APPROACH %	0%	74%	26%	0%	85%	15%	43%	0%	57%	0%	0%	0%	
	PEAK HR FACTOR		0.875			0.786			0.771			0.000		0.831
	APP/DEPART	112	/	115	110	/	135	74	/	29	0	/	17	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR X	SRR X	ERR 0	WRR X
0	0	5	0
0	0	2	0
0	0	2	0
0	0	1	0
0	0	7	0
0	0	3	0
0	0	5	0
0	0	1	0
0	0	26	0
0	0	16	0
0	0	6	0
0	0	7	0
0	0	3	0
0	0	3	0
0	0	0	0
0	0	6	0
0	0	5	0
0	0	8	0
0	0	38	0
0	0	19	0



INTERSECTION TURNING MOVEMENT COUNTS

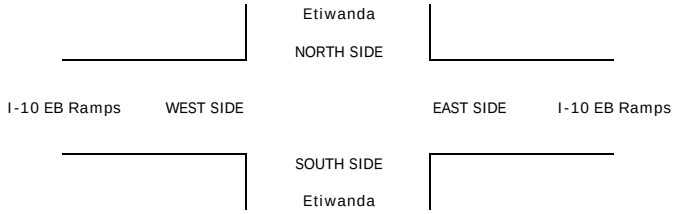
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	11
WEDNESDAY	EAST & WEST:	I-10 EB Ramps	CONTROL:	SIGNAL

CLASS 5:	NOTES:	AM		▲ N	
RV		PM			
		MD	◄ W		E ►
		OTHER		S ▼	
		OTHER			

		NORTHBOUND Etiwanda			SOUTHBOUND Etiwanda			EASTBOUND I-10 EB Ramps			WESTBOUND I-10 EB Ramps			
	LANES:	NL X	NT 3	NR 1	SL X	ST 2	SR 1	EL 1.5	ET X	ER 1.5	WL X	WT X	WR X	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		3:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS					RTOR			
NB	SB	EB	WB	TTL	NRR X	SRR X	ERR 0	WRR X
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
					0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
					0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Rancho Cucamonga	PROJECT #:	JN13149
3/11/20	NORTH & SOUTH:	Etiwanda	LOCATION #:	11
WEDNESDAY	EAST & WEST:	I-10 EB Ramps	CONTROL:	SIGNAL

CLASS 6:	NOTES:	AM / PM / MD / OTHER / OTHER	▲ N / ◄ W / E ► / S ▼
BUSES			

		NORTHBOUND (Etiwanda)			SOUTHBOUND (Etiwanda)			EASTBOUND (I-10 EB Ramps)			WESTBOUND (I-10 EB Ramps)			
	LANES:	NL X	NT 3	NR 1	SL X	ST 2	SR 1	EL 1.5	ET X	ER 1.5	WL X	WT X	WR X	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	2
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	1	0	0	0	1	0	0	0	0	0	0	2
	8:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	2	0	0	2	1	0	0	0	0	0	0	5
	APPROACH %	0%	100%	0%	0%	67%	33%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	2	/	2	3	/	2	0	/	0	0	/	1	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	2	0	0	2	1	0	0	0	0	0	0	5
	APPROACH %	0%	100%	0%	0%	67%	33%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.500			0.750			0.000			0.000		0.625
	APP/DEPART	2	/	2	3	/	2	0	/	0	0	/	1	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	2
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	1	0	0	1	0	0	0	0	0	0	0	2
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	1	/	1	1	/	1	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	0	1	0	0	1	0	0	0	0	0	0	0	2
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.250			0.250			0.000			0.000		0.250
	APP/DEPART	1	/	1	1	/	1	0	/	0	0	/	0	0

U-TURNS					
NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR			
NRR X	SRR X	ERR 0	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Etiwanda

NORTH SIDE

I-10 EB Ramps WEST SIDE EAST SIDE I-10 EB Ramps

SOUTH SIDE

Etiwanda

Attachment B

Level of Service Worksheets

(to be provided)

Attachment C

Queuing Analysis

ATTACHMENT C
QUEUE ANALYSIS
INTERSECTION MOVEMENTS WHERE PROJECT ADDS 50 FEET OR MORE OF STORAGE REQUIREMENTS

No.	Intersection	Peak Hour	Movement	Available Queue	Year 2022		Future Conditions - Phase 1 (Year 2025) (No Etiwanda Grade Separation)				Future Conditions - Phase 1 (Year 2025)										Future Conditions - Phase 2A (Year 2026)								Future Conditions - Phase 2B (Year 2027)							
					Existing Conditions (Year 2022)		No Project		with Project			No Project		With Project			With General Plan Improvements Conditions [d]			With Additional Improvements Conditions [d]			No Project		With Project			With General Plan Improvements Conditions [d]			With Additional Improvements Conditions [d]			No Project		With Project			With General Plan Improvements Conditions [d]			With Additional Improvements Conditions [d]		
					95th Queue Length	Available Capacity	95th Queue Length	Available Capacity	95th Queue Length	Available Capacity	Change in Available Capacity	95th Queue Length	Available Capacity	95th Queue Length	Available Capacity	Change in Available Capacity	95th Queue Length	Available Capacity	Change in Available Capacity	95th Queue Length	Available Capacity	Change in Available Capacity	95th Queue Length	Available Capacity	95th Queue Length	Available Capacity	Change in Available Capacity	95th Queue Length	Available Capacity	Change in Available Capacity	95th Queue Length	Available Capacity	Change in Available Capacity	95th Queue Length	Available Capacity	95th Queue Length	Available Capacity	Change in Available Capacity	95th Queue Length	Available Capacity	Change in Available Capacity	95th Queue Length	Available Capacity	Change in Available Capacity
1.	I-15 SB Ramps & Foothill Boulevard	AM	EBR [a]	530	0	530	0	530	0	530	0	0	530	0	530	0							0	530	0	530	0							0	530	0	530	0							0	530	0
			WBR [a]	275	0	275	0	275	0	275	0	0	275	0	275	0							0	275	0	275	0							0	275	0	275	0							0	275	0
			SBL	157	48	110	60	97	83	75	(23)	60	97	83	75	(23)							63	95	85	72	(23)							100	57	(38)	73	85	88	70	(15)							105	52	(33)
			SBR	1700	195	1505	213	1488	213	1488	0	213	1488	213	1488	0							220	1480	220	1480	0							255	1445	(35)	225	1475	225	1475	0							263	1438	(38)
		PM	EBR [a]	530	0	530	0	530	0	530	0	0	530	0	530	0							0	530	0	530	0							0	530	0	530	0							0	530	0
			WBR [a]	275	0	275	0	275	0	275	0	0	275	0	275	0							0	275	0	275	0							0	275	0	275	0							0	275	0
			SBL	157	95	62	105	52	118	40	(13)	105	52	118	40	(13)							108	50	120	37	(13)							165	(8)	(58)	110	47	123	35	(13)							170	(13)	(60)
			SBR	1700	210	1490	223	1478	223	1478	0	223	1478	223	1478	0							228	1473	228	1473	0							313	1388	(85)	233	1468	233	1468	0							325	1375	(93)
2.	I-15 NB Ramps & Foothill Boulevard	AM	EBR [a]	508	0	508	0	508	0	508	0	0	508	0	508	0							0	508	0	508	0										0	508	0	508	0									
			WBR [a]	285	0	285	0	285	0	285	0	0	285	0	285	0							0	285	0	285	0										0	285	0	285	0									
			NBL	433	298	136	330	103	330	103	0	330	103	330	103	0							343	91	343	91	0										353	81	353	81	0									
			NBR	448	300	148	338	111	413	36	(75)	338	111	413	36	(75)							353	96	438	11	(85)										363	86	463	(15)	(100)									
		PM	EBR [a]	508	0	508	0	508	0	508	0	0	508	0	508	0							0	508	0	508	0										0	508	0	508	0									
			WBR [a]	285	0	285	0	285	0	285	0	0	285	0	285	0							0	285	0	285	0										0	285	0	285	0									
			NBL	433	160	273	185	248	188	246	(3)	185	248	188	246	(3)							190	243	193	241	(3)										198	236	200	233	(3)									
			NBR	448	333	116	388	61	433	16	(45)	388	61	433	16	(45)							408	41	458	(10)	(50)										425	23	485	(37)	(60)									
3.	Etiwanda Avenue & Foothill Boulevard	AM	EBL	247	63	185	68	180	68	180	0	68	180	68	180	0				68	180	0	70	177	70	177	0							70	177	0	70	177	70	177	0							70	177	0
			EBR																	320	(320)	(320)										333	(333)	(333)										343	(343)	(343)
			WBL	194	248	(54)	270	(76)	300	(106)	(30)	270	(76)	300	(106)	(30)				300	(106)	(30)	275	(81)	308	(114)	(33)							308	(114)	(33)	280	(86)	313	(119)	(33)							313	(119)	(33)
			WBR	50	75	(25)	78	(28)	78	(28)	0	78	(28)	78	(28)	0				78	(28)	0	80	(30)	80	(30)	0							80	(30)	0	83	(33)	83	(33)	0							83	(33)	0
			NBL	160	255	(95)	318	(158)	390	(230)	(73)	318	(158)	390	(230)	(73)				143	18	175	330	(170)	410	(250)	(80)							150	10	180	343	(183)	425	(265)	(83)							153	8	190
			NBR	35	115	(80)	125	(90)	140	(105)	(15)	125	(90)	143	(108)	(18)				140	(105)	(15)	128	(93)	143	(108)	(15)							143	(108)	(15)	133	(98)	148	(113)	(15)							148	(113)	(15)
			SBL																	143	(143)	(143)										145	(145)	(145)										150	(150)	(150)
			SBR																	400	(400)	(400)										415	(415)	(415)										428	(428)	(428)
		PM	EBL	247	235	12	245	2	243	5	3	245	2	243	5	3				243	5	3	248	(1)	245	2	2							245	2	2	250	(3)	248	(1)	3							248	(1)	3
			EBR																	255	(255)	(255)										260	(260)	(260)										263	(263)	(263)
			WBL	194	115	79	133	62	153	42	(20)	133	62	153	42	(20)				153	42	(20)	135	59	160	34	(25)							160	34	(25)	138	57	163	32	(25)							163	32	(25)
			WBR	50	88	(38)	93	(43)	90	(40)	3	93	(43)	90	(40)	3				90	(40)	3	93	(43)	93	(43)	0							93	(43)	0	95	(45)	93	(43)	3							93	(43)	3
			NBL	160	403	(243)	458	(298)	505	(345)	(48)	458	(298)	505	(345)	(48)				265	(105)	193	460	(300)	513	(353)	(53)							270	(110)	190	463	(303)	523	(363)	(60)							273	(113)	190
			NBR	35	260	(225)	285	(250)	315	(280)	(30)	285	(250)	315	(280)	(30)				338	(303)	(53)	293	(258)	323	(288)	(30)							348	(313)	(55)	295	(260)	328	(293)	(33)							355	(320)	(60)
			SBL																	133	(133)	(133)										133	(133)	(133)										135	(135)	(135)
			SBR																	273	(273)	(273)										283	(283)	(283)										290	(290)	(290)
4.	Etiwanda Avenue & Arrow Route	AM	EBL	347	50	297	53	295	73	275	(20)	53	295	73	275	(20)	73	275	(20)	200	147	(148)	55	292	73	275	(18)	73	275	(18)	203	145	(148)	55	292	75	272	(20)	75	272	(20)	203	145	(148)
			EBR	530	135	395	160	370	230	300	(70)	160	370	230	300	(70)	230	300	(70)	195	335	(35)	160	370	238	293	(78)	238	293	(78)	200	330	(40)	165	365	245	285	(80)	245	285	(80)	203	328	(38)
			WBL	166	95	71	110	56	113	54	(2)	110	56	113	54	(2)	113	54	(2)	115	51	(5)	113	54	118	49	(5)	118	49	(5)	120	46	(8)	113	54	120	46	(8)	120	46	(8)	123	44	(10)
			WBR																	160	(160)	(160)	148	(148)	(148)							165	(165)	(165)	150	(150)	(150)							168	(168)	(168)	150	(150)	(150)
			NBL	352	253	100	268	85	575	(223)	(308)	268	85	575	(223)	(308)	575	(223)	(308)	345	7	(78)	273	80	590	(238)	(318)	590	(238)	(318)	350	2	(78)	280	72	608	(256)	(328)	608	(256)	(328)	355	(3)	(75)
			NBR	204	28	177	30	174	33	172	(3)	30	174	33	172	(3)	33	172	(3)	35	169	(5)	30	174	33	172	(3)	33	172	(3)	38	167	(8)	33	172	33	172	0	33	172	0	38	167	(5)
			SBL	261	128	134	133	129	128	134	5	133	129	128	134	5	128	134	5	138	124	(5)	133	129	125	136	8	125	136	8	138	124	(5)	133	129	125	136	8	125	136	8	140	121	(8)
			SBR	617	493	125	515	102	723	(106)	(208)	515	102	723	(106)	(208)	723	(106)	(208)	375	242	140	520	97	735	(118)	(215)	735	(118)	(215)	380	237	140	528	90	750	(133)	(223)	750	(133)	(223)	388	230	140
		PM	EBL	347	288	60	303	45	365	(18)	(63)	303	45	368	(21)	(65)	365	(18)	(63)	218	130	85	308	40	370	(23)	(63)	370	(23)	(63)	350	(3)	(43)	313	35	378	(31)	(65)	378	(31)	(65)	353	(6)	(40)
			EBR	530	353	178	375	155	545	(15)	(170)	375	155	545	(15)	(170)	595	(65)	(220)	643	(113)	(268)	580	150	548	(18)	(168)	603	(73)	(223)	663	(133)	(283)	383	148	590	(20)	(168)	608	(78)	(225)	663	(133)	(280)
			WBL	166	45	121	55	111	58	109	(3)	55	111	58	109	(3)	58	109	(3)	58	109	(3)	55	111	58	109	(3)	58	109	(3)	58	109	(3)	58	109	60	106	(3)	60	106	(3)	60	106	(3)
			WBR																	240	(240)	(240)	290	(290)	(290)							243	(243)	(243)	255	(255)	(255)							245	(245)	(245)	260	(260)	(260)
			NBL	352	110	242	130	222	213	140	(83)	130	222	213	140	(83)	213	140	(83)	195	157	(65)	133	220	218	135	(85)	218	135	(85)	200	152	(68)	135	217	223	130	(88)	223	130	(88)	203	150	(68)
			NBR	204	133	72	158	47	165	39	(8)	158	47	165	39	(8)	153	52	5	145	59	13	163	42	173	32	(10)	160	44	3	148	57	15	170	34	180	24	(10)	165	39	5	155	49	15
			SBL	261	253	9	263	(2)	258	4	5	263	(2)	258	4	5	258	4	5	263	(2)	0	268	(7)	263	(2)	5	263	(2)	5	268	(7)	0	270	(9)	263	(2)	8	263	(2)	8	270	(9)	0
			SBR	617	90	527	100	517	170	447	(70)	100	517	170	447	(70)	158	460	(58)	98	520	3	105	512	175	442	(70)	160	457	(55)	70	547	35	103	515	175	442	(73)	163	455	(60)	73	545	30
			EBL																	0	0	0										0	0	0										0	0	0
			WBL																	363	(363)	(363)										370	(370)	(370)										378	(378)	(378)
5.	Etiwanda Avenue & Whittram Avenue	AM	NBL	112	3	110	3	110	3	110	0	3	110	3	110	0				3	110	0	3	110	3	110	0							3	110	0	3	110	3	110	0							3	110	0
			NBR																	98	(98)	(98)										103	(103)	(103)										108	(108)	(108)
			SBL	100	103	(2)	120	(20)	113	(13)	8	110	(10)	113	(13)	(2)				113	(13)	(2)	110	(10)	115	(15)	(5)							115	(15)	(5)	113	(13)	118	(18)	(5)							118	(18)	(5)
			SBR																	0	0	0										0	0	0										0	0	0
			EBL																	0	0	0										0	0	0										0	0	0
			WBL																	343	(343)	(343)										348	(348)	(348)										355	(355)	(355)
		PM	NBL	112	3	110	3	110	3	110	0	3	110	3	110	0				3	110	0	3	110	3	110	0							3	110	0	3	110	3	110	0							3	110	0
			NBR																	220	(220)	(220)										228	(228)	(228)										235	(235)	(235)
			SBL	100	370	(270)	393	(293)	410	(310)	(17)	393	(293)	410	(310)	(17)				410	(310)	(17)	400	(300)	420	(320)	(20)							420	(320)	(20)	408	(308)	428	(328)	(20)							428	(328)	(20)
			SBR																	0	0	0										0	0	0										0	0	0
			EBL																	15	(15)	(15)										13	(13)	(13)										15	(15)	(15)
			WBL																	68	(68)	(68)										70	(70)	(70)										73	(73)	(73)
6.	Etiwanda Avenue & Napa Street	AM	NBL	100	0	100	0	100	83	18	(83)	0	100	48	53	(48)	48	53	(48)	48	53	(48)	0	100	63	38	(63)	63	38	(63)	63	38	(63)	0	100	80	20	(80)	80	20	(80)	80	20	(80)
			NBR														200	(200)	(200)	200	(200)	(200)	30	(30)	33	(33)	(3)	205	(205)	(175)	205	(205)	(175)	33	(33)	33	(33)	0	208	(208)	(175)	208	(208)	(175)
			SBL	360	60	300	153	208	140	220	13	163	198	188	173	(25)	188	173	(25)	183	178	(20)	163	198	193	168	(30)	193	168	(30)	188	173	(25)	165	195	200	160	(35)	200	160	(35)	193	168	(28)
			SBR														48	(48)	(48)	48	(48)	(48)	520	(520)	735	(735)	(215)	63	(63)	458	63	(63)	458	528	(529)	750	(750)	(223)	70	(70)	458	70	(70)	458
			EBL														0	0	0	48	(48)	(48)						0	0	0	58	(58)	(58)							0	0	0	68	(68)	(68)
			WBL														0	0	0	263	(263)	(263)						0	0	0	275	(275)	(275)							0	0	0	285	(285)	(285)
		PM	NBL	100	5	95	5	95	50	50	(45)	5	95	35	65	(30)	35	65	(30)	35	65	(30)	5	95	43	58	(38)	43	58	(38)	43	58	(38)	5	95	50	50	(45)	50	50	(45)	50	50	(45)
			NBR														168	(168)		168	(168)	(168)									168	(168)	(168)										170	(170)	(170)
			SBL	360	120	240	260	100	253	108	8	265	95	278	83	(13)	278	83	(13)	273	88	(8)	265	95	280	80	(15)	280	80	(15)	275	85	(10)	270	90	288	73	(18)	288	73	(18)	280	80	(10)
			SBR											25	(25)	(25)	25	(25)	(25)	25	(25)	(25)						30	(30)	(30)	30	(30)	(30)						35	(35)	(35)	35	(35)	(35)
7.	Etiwanda Avenue & 6th Street	AM	NBL	215	0	215	0	215	0	215	0	0	215	0	215	0	0	215	0	0	215	0	0	215	0	215	0	0	215	0	0	215	0	0	215	0	215	0	0	215	0	0	215	0
			SBR											0	0	0	0	0	0	0	0	0						0	0	0	0	0	0						0	0	0	0	0	0
		PM	NBL	215	0	215	0	215	0	215	0	0	215	0	215	0	0	215	0	0	215	0	0	215	0	215	0	0	215	0	0	215	0	0	215	0	215	0	0	215	0	0	215	0
			SBR											0	0	0	0	0	0	0	0	0						0	0	0	0	0	0						0	0	0	0	0	0
8.	Etiwanda Avenue & Fourth Street/San Bernardino Avenue	AM	EBL	195	68	128	95	100	178	18	(83)	95	100	178	18	(83)							100	95	190	5	(90)										100	95	198	(3)	(98)									
			EBR	195	73	123	78	118	78	118	0	78	118	78	118	0							80	115	78	118	3										83	113	80	115	3									
			WBL	194	148	47	160	34	160	34	0	160	34	160	34	0							163	32	163	32	0										165	29	165	29	0									
			NBL	228	238	(10)	388	(160)	385	(157)	3	388	(160)	385	(157)	3							400	(172)	398	(170)	3										415	(187)	410	(182)	5									
			NBR [a]	60	0	60	0	60	0	60	0	0	60	0	60	0							0	60	0	60	0										0	60	0	60	0									
			SBL	211	23	189	23	189	25	186	(3)	23	189	28	184	(5)							25	186	28	184	(3)										25	186	28	184	(3)									
			SBR	202	98	105	123	80	145	57	(23)	123	80	145	57	(23)							125	77	153	50	(28)										130	72	158	45	(28)									
		PM	EBL	195	163	33	265	(70)	323	(128)	(58)	265	(70)	323	(128)	(58)							275	(80)	333	(138)	(58)										283	(88)	348	(153)	(65)									
			EBR	195	280	(85)	310	(115)	310	(115)	0	310	(115)	310	(115)	0							315	(120)	315	(120)	0										325	(130)	325	(130)	0									
			WBL	194	100	94	108	87	108	87	0	108	87	108	87	0							110	84	110	84	0										110	84	110	84	0									
			NBL	228	168	61	200	28	198	31	3	200	28	198	31	3							205	23	203	26	2										215	13	213	16	3									
			NBR [a]	60	0	60	0	60	0	60	0	0	60	0	60	0							0	60	0	60	0										0	60	0	60	0									
			SBL	211	33	179	43	169	50	161	(8)	43	169	50	161	(8)							43	169	53	159	(10)										43	169	53	159	(10)									
			SBR	202	175	27	225	(23)	283	(81)	(58)	225	(23)	283	(81)	(58)							233	(31)	295	(93)	(63)										238	(36)	303	(101)	(65)									
9.	Etiwanda Avenue & Ontario Mills Parkway/Valley Boulevard	AM	EBL	191	15	176	23	169	23	169	0	23	169	23	169	0							23	169	23	169	0										23	169	23	169	0									
			WBL	221	75	146	80	141	80	141	0	80	141	80	141	0							80	141	80	141	0										83	139	83	139	0									
			NBL	271	178	94	183	89	178	94	5	183	89	178	94	5							183	89	180	91	3										185	86	180	91	5									
			SBL	237	30	207	30	207	30	207	0	30	207	30	207	0							33	205	30	207	3										30	207	30	207	0									
		PM	EBL	191	70	121	78	114	78	114	0	78	114	78	114	0							80	111	80	111	0										80	111	80	111	0									
			WBL	221	50	171	53	169	53	169	0	53	169	53	169	0							55	166	55	166	0										55	166	55	166	0									
			NBL	271	178	94	195	76	195	76	0	195	76	195	76	0							205	66	203	69	2										213	59	210	61	3									
			SBL	237	60	177	65	172	65	172	0	65	172	65	172	0							65	172	65	172	0										68	170	68	170	0									
10.	Etiwanda Avenue & I-10 WB Ramps	AM	WBL	655	233	423	235	420	230	425	5	235	420	230	425	5							238	418	233	423	5										240	415	235	420	5									
			WBR	2000	350	1650	378	1623	393	1608	(15)	378	1623	393	1608	(15)							383	1618	400	1600	(18)										388	1613	405	1595	(18)									
			NBR [a]	120	0	120	0	120	0	120	0	0	120	0	120	0							0	120	0	120	0										0	120	0	120	0									
			SBR [a]	535	0	535	0	535	0	535	0	0	535	0	535	0							0	535	0	535	0										0	535	0	535	0									
		PM	WBL	655	193	463	198	458	195	460	3	198	458	195	460	3							200	455	198	458	3										203	453	200	455	3									
			WBR	2000	338	1663	365	1635	373	1628	(8)	365	1635	373	1628	(8)							370	1630	380	1620	(10)										378	1623	388	1613	(10)									
			NBR [a]	120	0	120	0	120	0	120	0	0	120	0	120	0							0	120	0	120	0										0	120	0	120	0									
			SBR [a]	535	0	535	0	535	0	535	0	0	535	0	535	0							0	535	0	535	0										0	535	0	535	0									
11.	Etiwanda Avenue & I-10 EB Ramps	AM	EBL	460	48	413	68	393	90	370	(23)	68	393	90	370	(23)							70	390	90	370	(20)										70	390	93	368	(23)									
			EBR	1200	465	735	493	708	490	710	3	493	708	490	710	3							503	698	500	700	3										513	688	510	690	3									
			NBR [a]	60	0	60	0	60	0	60	0	0	60	0	60	0							0	60	0	60	0										0	60	0	60	0									
			SBR [a]	643	0	643	0	643	0	643	0	0	643	0	643	0							0	643	0	643	0										0	643	0	643	0									
		PM	EBL	460	68	393	93	368	105	355	(13)	93	368	105	355	(13)							93	368	108	353	(15)										95	365	110	350	(15)									
			EBR	1200	245	955	255	945	255	945	0	255	945	255	945	0							258	943	258	943	0										260	940	260	940	0									
			NBR [a]	60	0	60	0	60	0	60	0	0	60	0	60	0							0	60	0	60	0										0	60	0	60	0									
			SBR [a]	643	0	643	0	643	0	643	0	0	643	0	643

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING

PRELIMINARY HYDROLOGY CALCULATIONS

FOR

ETIWANDA DISTRIBUTION CENTER
8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

PREPARED FOR

BTC III ETIWANDA COMMERCE CENTER
4675 MACARTHUR COURT, SUITE 625
NEWPORT BEACH, CA 92660
PHONE: (949) 892-4900

NOVEMBER 10TH, 2021

JOB NO. 3687

PREPARED BY

THIENES ENGINEERING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
P. (714) 521-4811
FAX. (714) 521-4173

PRELIMINARY HYDROLOGY CALCULATIONS

FOR

ETIWANDA DISTRIBUTION CENTER
8996 ETIWANDA AVENUE

PREPARED UNDER
THE SUPERVISION OF:



11/10/21

REINHARD STENZEL DATE:
R.C.E. 56155
EXP. 12/31/2022

INTRODUCTION

A: PROJECT LOCATION

The project site is located at 8996 Etiwanda Avenue, north of 6th Street, south of Arrow Route and east of the Interstate 15 Freeway in the City of Rancho Cucamonga, California. Please see next page for vicinity map.

B: STUDY PURPOSE

The purpose of this study is to determine 100-year existing and proposed condition peak flow rates from the project site.

C: PROJECT STAFF:

Thienes Engineering staff involved in this study include:

Reinhard Stenzel
James Wickenhaeuser



Last Update: 11/10/21
O:\3600-3699\3687\3687VicMap.dwg

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VICINITY MAP

FOR

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

NTS

DISCUSSION

The project site encompasses approximately 70.85 acres. Proposed improvements to the site include two industrial buildings of 1,422,500 square feet (Building 1), and 738,270 square feet (Building 2). There will be truck yards on the north and south sides of Building 1, east side of Building 2, and a separate trailer parking lot in the southeasterly portion of the project. Vehicle parking and landscape will be scattered throughout the site. A 3'H x 7'W reinforced concrete box will be constructed to convey northerly offsite tributary flows in lieu of the existing concrete channel bisecting the westerly portion of the site. Similarly, the existing 30-inch storm drain traversing through the easterly portion of the site will be re-routed around the proposed Building 1.

Master Plan Hydrology

Per the City of Rancho Cucamonga – Etiwanda / San Sevaine Area Master Plan of Drainage, by AKM Consulting Engineers dated January 2009, 100-year commercial runoff from the easterly portion of the project site is tabled to a proposed master plan storm drain (54-inch between Nodes 2.09 and 2.14, 60-inch between Nodes 2.14 and 2.16) in Etiwanda Avenue. The existing Etiwanda Avenue storm drain appears to be undersized (42-inch fronting the project site and 54-inch downstream of site per as-built plans by Albert A. Webb dated August 2015). Therefore, proposed condition discharge to the Etiwanda Avenue storm drain will match existing condition discharge.

The westerly portion of the project site is not tabled to the Etiwanda Avenue storm drain. However, it is currently discharging to a concrete channel bisecting the site. Likewise, proposed condition discharge to the 3'H x 7'W reinforced concrete box – which will convey northerly offsite flows in place of the existing concrete channel – will match existing condition discharge.

Please see Appendix "A" for the Master Plan of Drainage, as-built storm drain plans and other pertinent reference materials.

Existing Condition

Areas tributary to Etiwanda Avenue storm drain:

The westerly half of Etiwanda Avenue fronting the project site (Nodes 100-103, 2.30 acres), plus a grass lot south of the site (at Node 103, 1.60 acres), drain southerly to a 42-inch lateral accepting runoff in the grass lot and tributary to the Etiwanda Avenue storm drain. The existing condition 100-year peak flow rate from these offsite areas is approximately 10.0 cfs.

An offsite dirt lot and several warehouse buildings near the project site's northeast corner, plus a portion of the railroad right-of-way (Nodes 110-111, 11.40 acres), drain to a 30-inch storm drain accepting runoff within the railroad right-of-way. The 30-inch traverses southerly through the site, accepts runoff from the center portion of the site (Nodes 300-332, 22.15 acres, inclusive of 1.15 acres offsite from railroad right-of-way), and discharges to the southerly offsite grass lot, which drains via the previously mentioned 48-inch lateral to the Etiwanda Avenue storm drain. The grass lot also accepts runoff from the easterly portion of the site (Nodes 200-202, 6.90 acres) via surface flow. The existing condition 100-year peak flow rate from the 11.40-acre offsite area is approximately 40.7 cfs. The 100-year peak flow rate from the 22.15-acre center portion of the site is approximately 68.1 cfs (subtract 40.7 cfs from 108.8 cfs total at Node 132). Lastly, the 100-year peak flow rate from the 6.90-acre easterly portion of the site is approximately 23.7 cfs.

The total existing condition 100-year peak flow rate from the above onsite plus offsite areas, tributary to the Etiwanda Avenue storm drain via the 42-inch lateral, is 142.5 cfs.

Areas tributary to existing concrete channel:

The northwest portion of the project site and the areas adjacent to the existing concrete channel surface drain to the concrete channel, which continues southerly into a neighboring property (Existing Condition Hydrology Map Nodes 400-403, 17.95 acres). The existing condition 100-year peak flow rate from Nodes 400-403 is approximately 37.2 cfs. The concrete channel also accepts offsite flows from a north of the project site (Offsite Hydrology Map Nodes 100-106, 50.05 acres). The 100-year peak flow rate from this 50.05 acre offsite area is approximately 119.1 cfs.

The total existing condition 100-year peak flow rate from the above onsite plus offsite areas, tributary to the existing concrete channel, is 156.3 cfs.

Areas tributary to southerly neighboring property:

The southwest portion of the project site (Nodes 500-502, 7.60 acres) and a small southerly portion of the site east of the concrete channel (Nodes 600-601, 0.25 acres) surface drain southerly to a neighboring property. The existing condition 100-year peak flow rates from these onsite areas are approximately 15.1 cfs (leaving the site at Node 502) and 1.4 cfs (at Node 601)

Self-contained areas not draining from site:

There are several areas within the project site that are currently self-contained, thus not draining from the site. Some are chemical waste basins protected by berms (4.15-acre, 1.45-acre and 0.45-acre areas in the easterly portion of site adjacent to Etiwanda Avenue, plus 0.15-acre area in the southerly portion near Node 600). Others are located at cooling towers with concrete storage channels (two 1.20-acre areas in the northerly portion of site adjacent to railroad right-of-way, plus 1.80-acre area in the westerly portion). Totaling 10.40 acres, these areas do not contribute any runoffs to downstream drainage facilities.

See Appendix "B" for existing condition hydrology calculations and Appendix "D" for existing condition hydrology map.

Proposed Condition

Areas tributary to Etiwanda Avenue storm drain:

The westerly truck and auto parking lots west of Building 1 (nodes 100-104) will surface drain to series of catch basins and be added to a private storm drain (Line A). The storm drain will travel southerly then turn easterly through the southern truck yard. A series of low points with catch basins will collect the runoff from the southerly half of the building and the truck yard (Nodes 105-114). The storm drain will continue easterly to a major confluence at node 214.

The northerly half of Building 1 and the northerly truck yard will drain to a series of low points with catch basins within the truck yard (nodes 200-210). A private storm drain (Line B) will convey the runoff easterly then turn southerly through the easterly auto parking lot. Runoff from the auto parking will be collected and added to this stream (Nodes 211-213). Finally this storm drain will confluence with the stream from the southerly portion of the building at node 214. The 100-year peak flow rate from Building 1 will be approximately 142.5 cfs.

The storm drain will continue from node 214 easterly into the street then turn southerly towards node 306. This is a second major confluence.

Runoff from Building 2, the northerly auto parking, and the truck yard will drain to a series of low points with catch basins (Nodes 300-304). A private storm drain (Line C) will convey this runoff southerly through the easterly truck yard then turn westerly. The southerly auto parking area will drain to a catch basin then join this stream at node 305. The storm drain will confluence with the storm drain in the street at node 306 and continue southerly. The 100-year peak flow rate from Building 2 will be approximately 27.1 cfs.

Finally, the storm drain will turn easterly for Etiwanda Avenue. Runoff from a portion of the streets will be collected in catch basins added to the stream (1.95 ac and 3.50 ac). The storm drain will connect to the existing 42" storm drain in Etiwanda Avenue. The peak

100-year flow rate from Buildings 1 & 2 and the street areas will be approximately 167.2 cfs. Note that this flow rate is less than the direct sum of flow rates from the individual areas. This is because the time of concentration for the entire stream is not taken into account in the direct sum.

Runoff from the southeasterly truck yard and portions of the street (Nodes 400-504) are also tributary to the existing 42" storm drain in Etiwanda Avenue. A private storm drain will collect runoff from a catch basin in the truck yard and the street flows and convey it to the existing drain. The 100-year peak flow rate will be approximately 15.2 cfs.

The total 100-year peak flow rate from the proposed project to the Etiwanda Avenue storm drain will be approximately 182.4 cfs (167.2 cfs + 15.2 cfs, Nodes 100-308, 400-504).

Areas tributary to existing concrete channel:

The westerly street and portion of the southerly street will surface drain within the street to catch basins and into the existing channel (Nodes 600-603). The 100-year peak runoff will be approximately 12.8 cfs.

Offsite runon from the north will be conveyed through the site in a proposed 3'H x 7'W RCB. The culvert will wrap around the west side of the building and convey approximately 119.1 cfs to the channel. This is the existing flow rate, so there will not be a negative effect on the channel.

Summary

The total 100-year peak flow rate from the proposed project to both Etiwanda Avenue storm drain and the existing channel will be approximately 195.2 cfs (167.2 cfs + 15.2 cfs + 12.8 cfs, Nodes 100-308, 400-504, 600-603).

See Appendix "B" for proposed condition hydrology calculations and Appendix "D" for proposed condition hydrology map.

Detention Analysis

Onsite storm water detention will be utilized to reduce the proposed condition flow rate below the existing condition rate. The 100-year peak existing condition flow rate from the project area to the Etiwanda Avenue storm drain is approximately 142.5 cfs, while the peak flow rate to the channel is approximately 37.2 cfs. No detention will be required to reduce the peak flow rate to the channel (37.2 cfs existing, 12.8 cfs proposed).

Runoff from Building 1 will be stored in the northerly and southerly truck yards. The southerly truck yard (Nodes 100-114, 21.1 acres) experiences approximately 68.1 cfs (rational method) of inflow during a 100-year storm event. The storm drain leaving this truck yard will intentionally be undersized to force runoff to pond on the surface of the

truck yard. A 24" HDPE pipe will limit the discharge to 48.5 cfs during a peak event. Approximately 0.77 ac-ft of runoff will pond to a depth of 0.95'. This ponding event will last approximately 40-minutes and will only occur during a 100-year storm event.

The northerly truck yard (Nodes 200-210, 22.1 acres) experiences approximately 73.6 cfs (rational method) of inflow during a 100-year storm event. The storm drain leaving this truck yard will intentionally be undersized to force runoff to pond on the surface of the truck yard. A 24" HDPE pipe will limit the discharge to 46.3 cfs during a peak event. Approximately 0.73 ac-ft of runoff will pond to a depth of 0.64'. This ponding event will last approximately 40-minutes and will only occur during a 100-year storm event.

Runoff from Building 2 will also be detained in the easterly truck yard (Nodes 300-304). The truck yard experiences approximately 26.0 cfs (rational method) of inflow during a 100-year storm event. The storm drain leaving this truck yard will intentionally be undersized to force runoff to pond on the surface of the truck yard. A 12" HDPE pipe will limit the discharge to 9.7 cfs during a peak event. Approximately 0.20 ac-ft of runoff will pond to a depth of 0.83'. This ponding event will last approximately 30-minutes and will only occur during a 100-year storm event.

After detention, the peak 100-year flow rate to the Etiwanda Avenue storm drain via Line A will be approximately 110.3 cfs. With the addition of the runoff from the southeasterly truck parking lot, the total 100-year peak flow rate to the Etiwanda Avenue storm drain will be approximately 125.5 cfs. This is approximately 88% of the existing condition peak flow rate of 142.5 cfs.

Since proposed condition discharge will be less than the existing condition discharge to both the existing Etiwanda Avenue storm drain and the existing concrete channel, proposed site improvements will not negatively impact any existing downstream drainage facilities. Onsite storm drain pipe lateral sizes and hydraulics will be determined during the project's final design phase to reduce proposed condition discharge to below existing condition discharge.

Truck Yard	Nodes	Area (acre)	Peak Q (cfs)	Tc (min)	Discharge Q (cfs)	Depth (ft)	Volume (ac-ft)	Difference (cfs)
Building 1 - North	200-210	21.1	73.6	11.5	48.5	0.95	0.77	25.1
Building 1 - South	100-114	22.1	68.1	13.4	46.3	0.64	0.73	21.8
Building 2 - East	300-304	5.75	26.0	7.7	9.7	0.83	0.20	16.3
Totals			**167.7**		**104.5**			**63.2**

See Appendix "C" for detention analysis.

Methodology

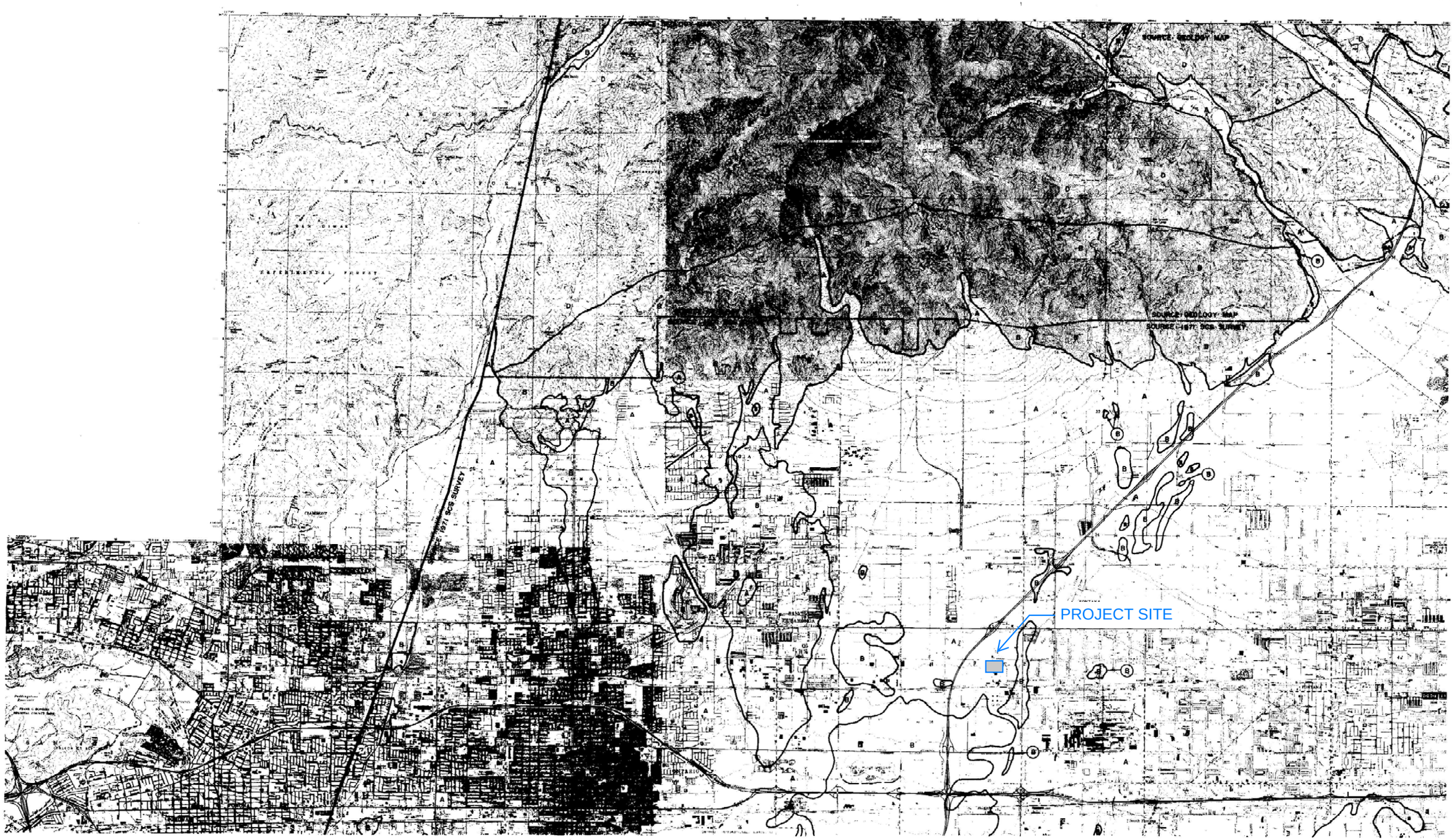
Hydrology calculations were computed using San Bernardino County Rational Method program (by AES Software). The soil types are "A" "and "B" per the San Bernardino County Hydrology Manual. See Appendix "A" for reference materials. The San Bernardino

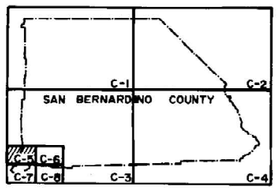
County Flood Routing Analysis (also by AES Software) was used for detention calculations.

APPENDIX	DESCRIPTION
A	REFERENCE MATERIALS
B	HYDROLOGY CALCULATIONS
C	DETENTION ANALYSIS
D	HYDROLOGY MAP

APPENDIX A

REFERENCE MATERIALS





INDEX MAP

LEGEND
SOIL GROUP BOUNDARY
A SOIL GROUP DESIGNATION
BOUNDARY OF INDICATED SOURCE

SCALE 1:48,000

SCALE REDUCED BY 1/2

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

HYDROLOGIC SOILS GROUP MAP
FOR
SOUTHWEST-A AREA

FIGURE C-13

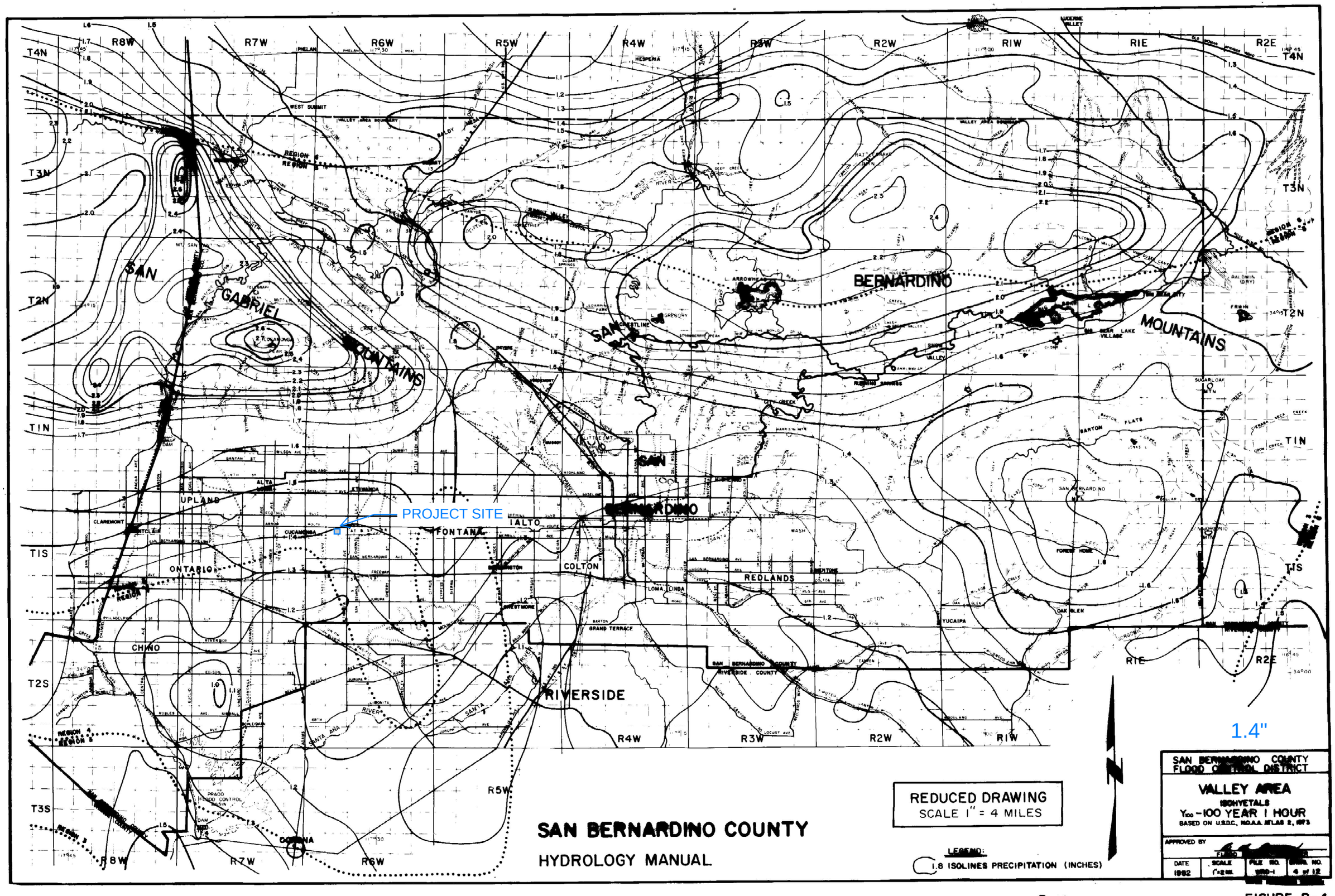

PROJECT SITE
SAN BERNARDINO COUNTY
HYDROLOGY MANUAL
REDUCED DRAWING
SCALE 1" = 4 MILES
LEGEND:
1.8 ISOLINES PRECIPITATION (INCHES)
1.4"
SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT
VALLEY AREA
ISOHYETALS
Y100 - 100 YEAR 1 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973
APPROVED BY
DATE 1982
SCALE 1"=2 MI.
FILE NO. VAH-1
SHEET NO. 4 of 12
SAN GABRIEL MOUNTAINS
SAN BERNARDINO MOUNTAINS
R8W
R7W
R6W
R5W
R4W
R3W
R2W
R1W
R1E
R2E
T4N
T3N
T2N
T1N
T1S
T2S
T3S
UPLAND
CLAREMONT
ONTARIO
CHINO
FONTANA
RIALTO
COLTON
REDLANDS
LOMA LINDA
GRAND TERRACE
YUCAIPA
RIVERSIDE
CORONA
HESPERIA
LUCERNE VALLEY
BIG BEAR LAKE
BIG BEAR CITY
SUGARLOAD MTN.
PRADO FLOOD CONTROL BASIN

FIGURE B-4

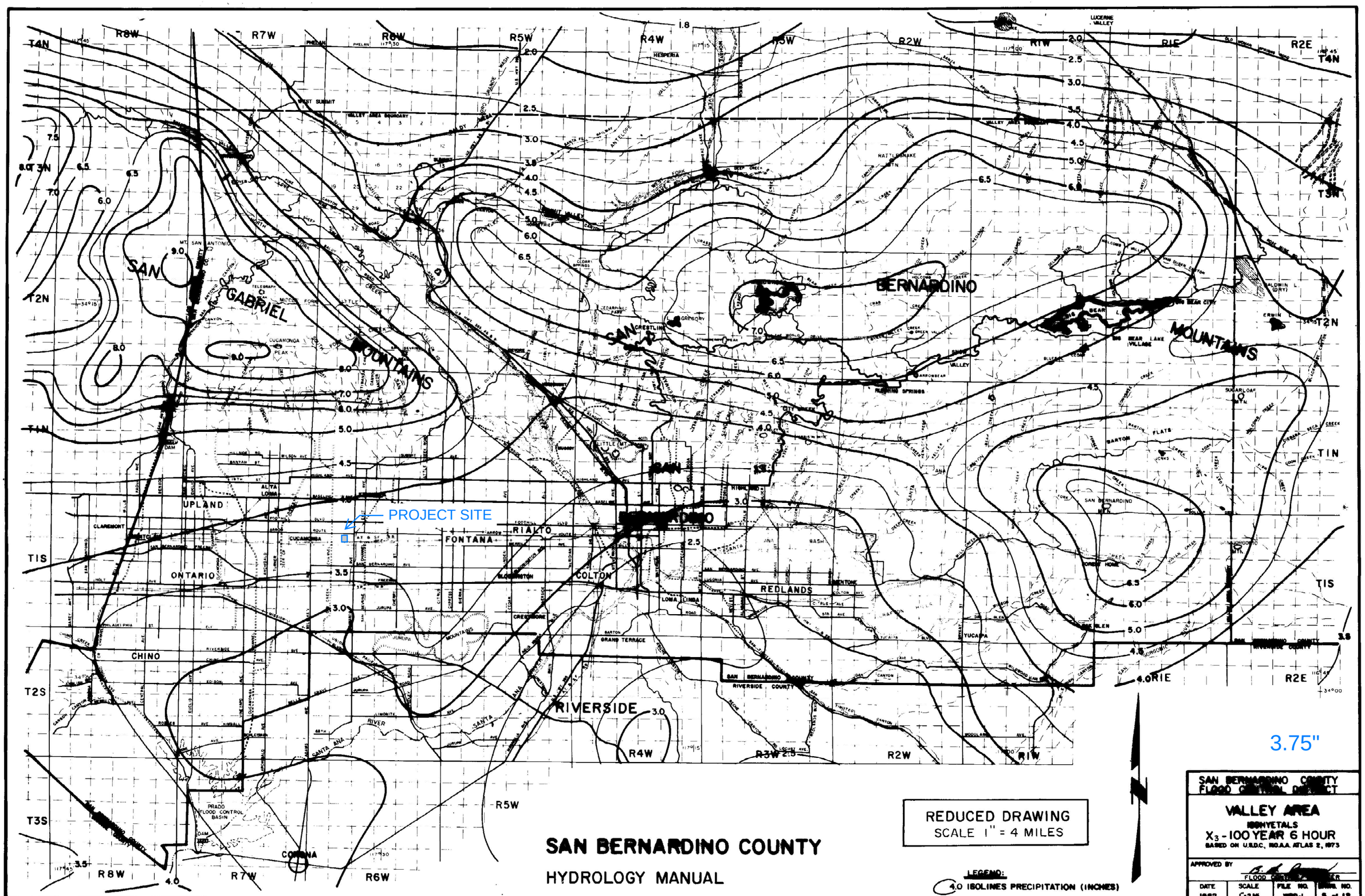

PROJECT SITE
3.75"
SAN BERNARDINO COUNTY
HYDROLOGY MANUAL
REDUCED DRAWING
SCALE 1" = 4 MILES
LEGEND:
4.0 ISOLINES PRECIPITATION (INCHES)
SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT
VALLEY AREA
ISOHYETALS
X3 - 100 YEAR 6 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973
APPROVED BY
DATE 1982
SCALE 1"=2 MI.
FILE NO. WRD-1
DWG. NO. 3 of 12
SAN GABRIEL MOUNTAINS
SAN BERNARDINO MOUNTAINS
UPLAND
ONTARIO
CHINO
CLAREMONT
FONTANA
RIALTO
COLTON
REDLANDS
LOMA LINDA
RIVERSIDE
CORONA
SAN BERNARDINO
HIGHLAND
YUCAIPA
CRESTLINE
LAKE ARROWHEAD
BIG BEAR LAKE
BIG BEAR CITY
SAN BERNARDINO COUNTY
RIVERSIDE COUNTY
PRADO FLOOD CONTROL BASIN
SANTA ANA RIVER
T4N
T3N
T2N
T1N
T1S
T2S
T3S
R8W
R7W
R6W
R5W
R4W
R3W
R2W
R1W
R1E
R2E

FIGURE B-5

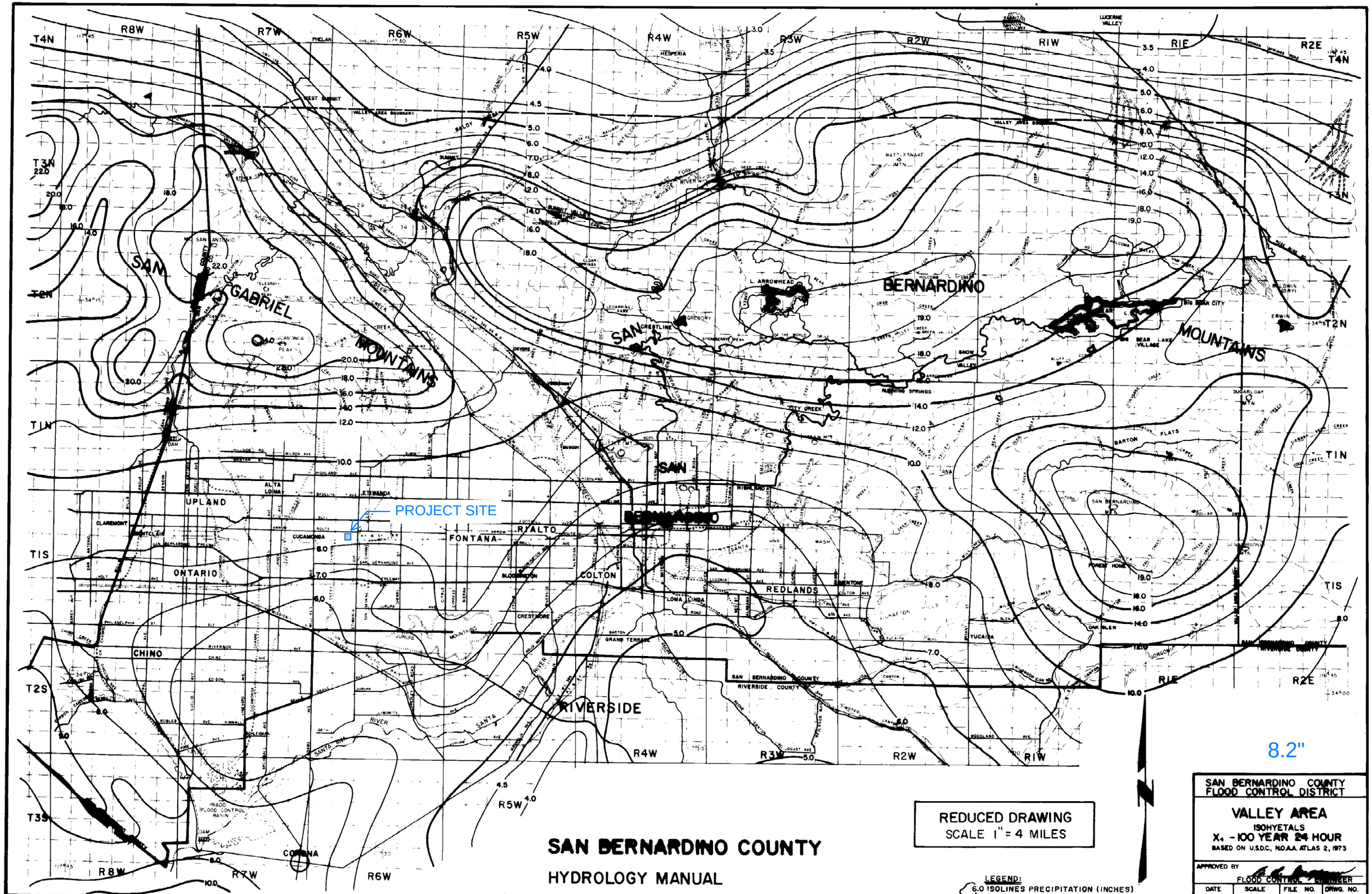
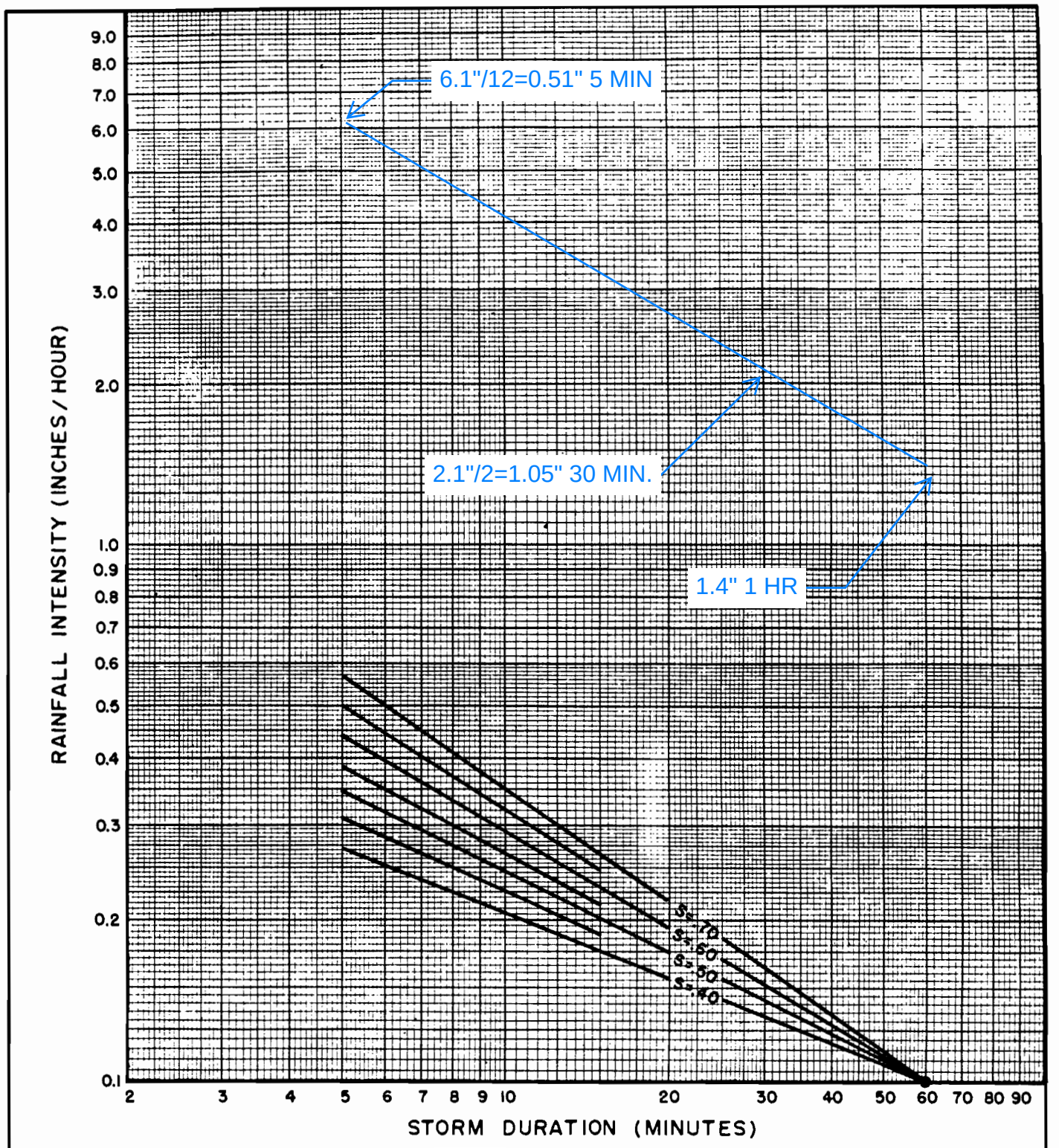

PROJECT SITE
SAN GABRIEL MOUNTAINS
SAN BERNARDINO MOUNTAINS
SAN BERNARDINO
RIVERSIDE
UPLAND
ONTARIO
CHINO
CORONA
FONTANA
RIALTO
COLTON
REDLANDS
LOMA LINDA
CRESTMORE
GRAND TERRACE
YUCAIPA
CRESTLINE
LAKE ARROWHEAD
RUNNING SPRINGS
BIG BEAR CITY
BEAR LAKE VILLAGE
SNOW VALLEY
HESPERIA
LUCERNE VALLEY
SAN BERNARDINO COUNTY
RIVERSIDE COUNTY
T4N
T3N
T2N
T1N
T1S
T2S
T3S
R8W
R7W
R6W
R5W
R4W
R3W
R2W
R1W
R1E
R2E
REDUCED DRAWING
SCALE 1" = 4 MILES
LEGEND:
6.0 ISOLINES PRECIPITATION (INCHES)
SAN BERNARDINO COUNTY
HYDROLOGY MANUAL
SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT
VALLEY AREA
ISOHYETALS
X4 - 100 YEAR 24 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973
APPROVED BY
FLOOD CONTROL ENGINEER
DATE 1982
SCALE 1"=2 MI.
FILE NO. WRD-1
DRWG. NO. 6 of 12
8.2"

FIGURE B-6



DESIGN STORM FREQUENCY = 100 YEARS

ONE HOUR POINT RAINFALL = 1.4" INCHES

LOG-LOG SLOPE = 0.60"

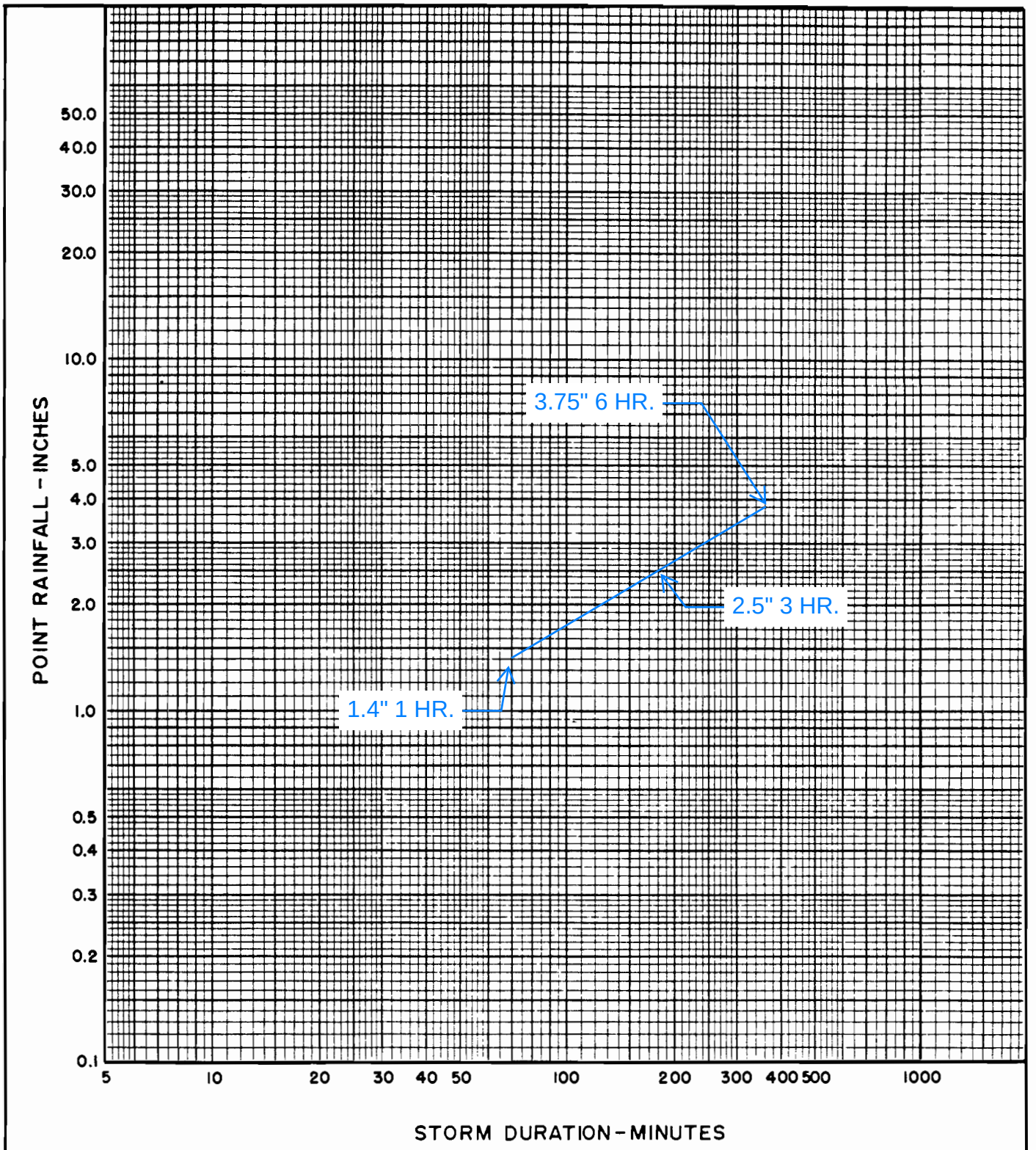
PROJECT LOCATION = ARROW AND JUNEBERRY

SAN BERNARDINO COUNTY

HYDROLOGY MANUAL

INTENSITY - DURATION CURVES CALCULATION SHEET

FIGURE D-3



PROJECT LOCATION ARROW AND JUNEBERRY

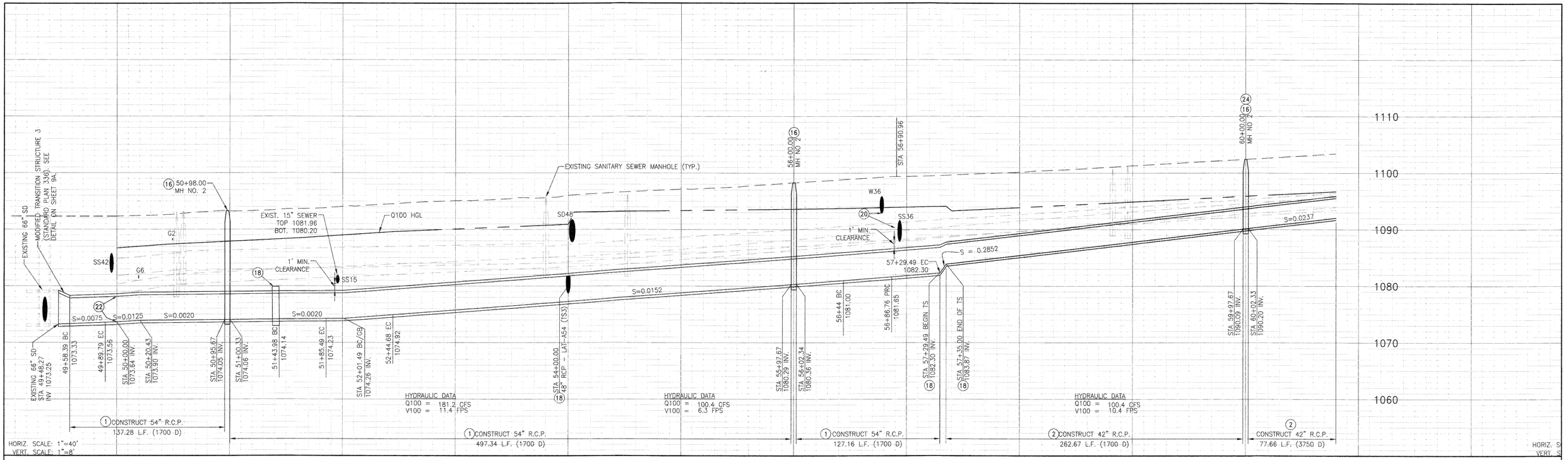
NOTES TEI JOB NUMBER 4021

SAN BERNARDINO COUNTY

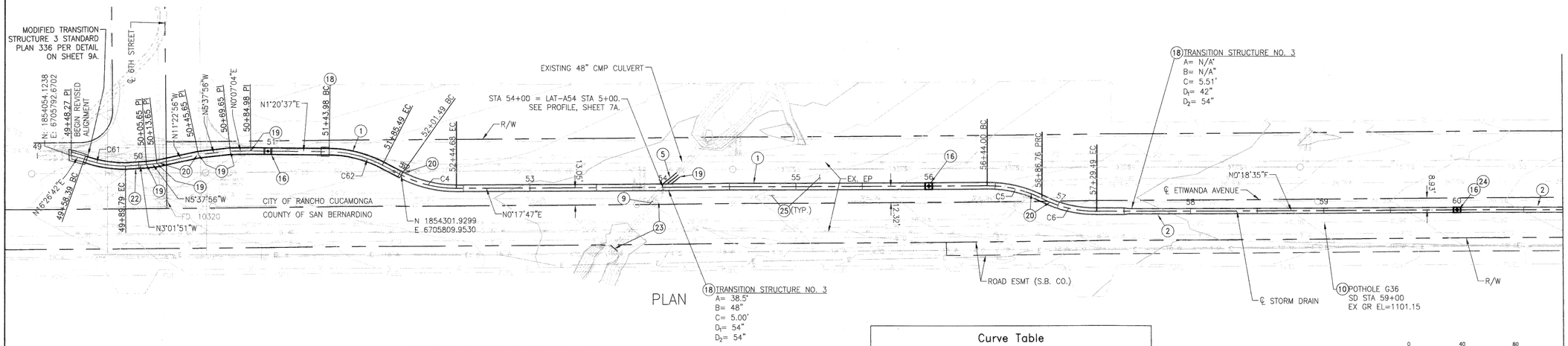
HYDROLOGY MANUAL

AREA - AVERAGED MASS RAINFALL PLOTTING SHEET

FIGURE E-8



PROFILE



PLAN

CONSTRUCTION NOTES:

(1) INSTALL 54" DIAMETER R.C.P. STORM DRAIN, D-LOAD PER PLAN.
(2) INSTALL 42" DIAMETER R.C.P. STORM DRAIN, D-LOAD PER PLAN.
(5) INSTALL 48" DIAMETER R.C.P. STORM DRAIN, D-LOAD PER PLAN.
(9) REMOVE AND DISPOSE OF INTERFERING PORTIONS OF EXISTING STORM DRAIN.
(10) POTHOLE TO VERIFY LOCATION AND ELEVATION PRIOR TO STORM DRAIN CONSTRUCTION.
(16) CONSTRUCT MANHOLE NO. 2 PER CITY OF RANCHO CUCAMONGA STD. DWG. NO. 319.
(18) CONSTRUCT TRANSITION STRUCTURE NO. 3. PER CITY OF RANCHO CUCAMONGA STD. DWG. NO. 336.
(19) CONSTRUCT P.C.C. COLLAR PER CITY OF RANCHO CUCAMONGA STD. DWG. NO. 329.
(20) CONSTRUCT SUPPORT FOR CONDUITS CROSSING TRENCHES PER CITY OF RANCHO CUCAMONGA STD. DWG. NO. 339.
(22) REMOVE AND DISPOSE OF EXISTING BULKHEAD.
(23) PLUG DOWNSTREAM END AND FILL ABANDONED PIPE WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM) @ 1/4 SACK MIN.
(24) INSTALL 36" MANHOLE FRAME AND COVER PER SPPWC STD. DWG. NO. 633-3 (SEE SHEET 2A) AND 36" SHAFT WITHOUT REDUCER PER SPPWC STD. DWG. NO. 326-2 (SEE SHEET 8A).
(25) REPLACE EXISTING PAVEMENT AND AGGREGATE BASE AFFECTED BY STORM DRAIN CONSTRUCTION IN LIKE AND KIND PER STD. DWG. 120 AS MODIFIED BY TRENCH DETAIL ON SHEET 2A. OVERLAY ENTIRE TRAVELED LANE WIDTH WHEN REQUIRED BY STD. DWG. 120.

NOTE: INCORPORATION LIMITS FOR THE CITY OF RANCHO CUCAMONGA ARE: N/O 4TH ST. ℄, W/O ETIWANDA AVE. ℄ BETWEEN 4TH ST. AND NAPA ST., & N/O NAPA ST. R/W.

CONTRACTOR SHALL OBTAIN ENCROACHMENT PERMIT FROM THE COUNTY OF SAN BERNARDINO FOR ALL WORK OUTSIDE CITY LIMITS.

Curve Table

Curve #	Radius	Delta	Length	Tangent	Start Point	End Point
C61	90.00'	19°59'23"	31.40'	15.86'	49+58.39	49+89.79
C62	90.00'	26°25'43"	41.51'	21.13'	51+43.98	51+85.49
C4	90.00'	27°29'24"	43.18'	22.01'	52+01.49	52+44.68
C5	90.00'	27°13'13"	42.76'	21.79'	56+44.00	56+86.76
C6	90.00'	27°12'25"	42.74'	21.78'	56+86.76	57+29.49

THE CONTRACTOR IS REQUIRED TO NOTIFY THE SOUTHERN CALIFORNIA GAS COMPANY AT (951) 845-0712 TWO WORKING DAYS (MONDAY-FRIDAY) PRIOR TO ANY WORK WITHIN 10' OF GAS FACILITIES 12" AND LARGER. NO EXCAVATION WITHIN 10' OF THESE GAS FACILITIES SHALL BE PERFORMED WITHOUT THE PRESENCE OF A GAS COMPANY AGENT ON SITE.

AS-BUILT

REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

7/23/15
DATED

JOSEPH C. CALDWELL

Underground Service Alert
DIG BEFORE YOU DIG
Call: TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG

COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS

RECOMMENDED BY:
APPROVED BY:
MELISSA L. WALKER, P.E., PERMIT ENGINEER
PERMIT/OPERATIONS SUPPORT DIVISION
DATE
TRAFFIC DIVISION
DATE

NO.	DESCRIPTION OF REVISION	DATE	CITY APPROVED

CITY OF RANCHO CUCAMONGA

PLAN AND PROFILE
ETIWANDA AVENUE STORM DRAIN
6TH STREET TO ARROW ROUTE
DRC2013-00155 PM19448 ROW2013-00701

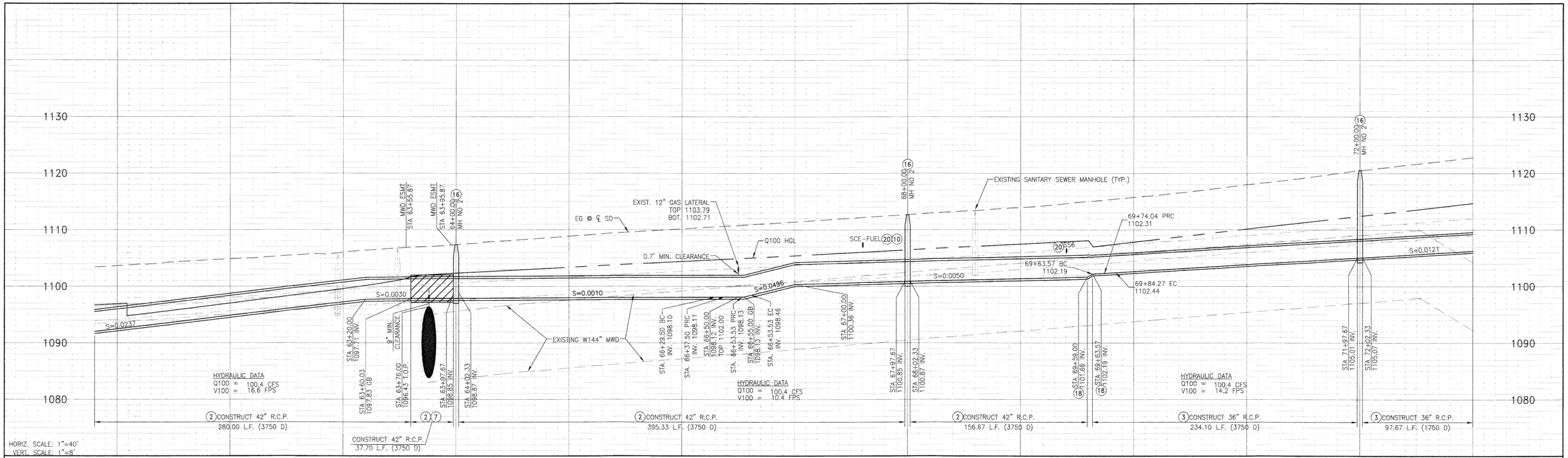
APPROVED BY: CITY ENGINEER
DATE: 8/11/15
R.C.E. NO. 53672

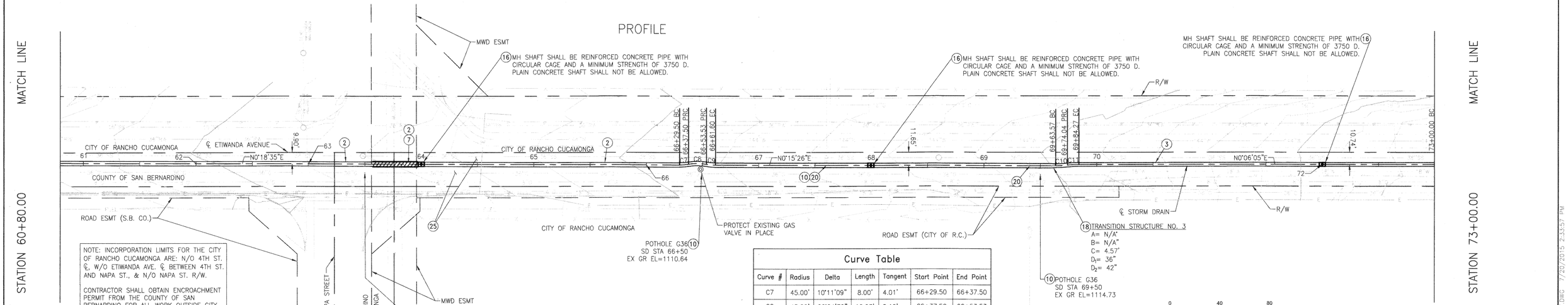
DESIGNED AED
DRAWN AED
CHECKED ETH

RECOMMENDED
SHEET 3A OF 9
DRAWING NO. 2335-D

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE, CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256

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Curve Table

Curve #	Radius	Delta	Length	Tangent	Start Point	End Point
C7	45.00'	10°11'09"	8.00'	4.01'	66+29.50	66+37.50
C8	45.00'	20°24'30"	16.03'	8.10'	66+37.50	66+53.53
C9	45.00'	10°16'30"	8.07'	4.05'	66+53.53	66+61.60
C10	90.00'	6°39'53"	10.47'	5.24'	69+63.57	69+74.04
C11	90.00'	6°30'33"	10.22'	5.12'	69+74.04	69+84.27

CONSTRUCTION NOTES:

(2) INSTALL 42" DIAMETER R.C.P. STORM DRAIN, D-LOAD PER PLAN.

(3) INSTALL 36" DIAMETER R.C.P. STORM DRAIN, D-LOAD PER PLAN.

(7) INSTALL 58" NOMINAL DIAMETER BY 0.812" MINIMUM WALL THICKNESS STEEL CASING PIPE PER DETAILS ON SHEET 2A.

(10) POTHOLE TO VERIFY LOCATION AND ELEVATION PRIOR TO STORM DRAIN CONSTRUCTION.

(16) CONSTRUCT MANHOLE NO. 2 PER CITY OF RANCHO CUCAMONGA STD. DWG. NO. 319.

(18) CONSTRUCT TRANSITION STRUCTURE NO. 3. PER CITY OF RANCHO CUCAMONGA STD. DWG. NO. 336.

(20) CONSTRUCT SUPPORT FOR CONDUITS CROSSING TRENCHES PER CITY OF RANCHO CUCAMONGA STD. DWG. NO. 339.

(25) REPLACE EXISTING PAVEMENT AND AGGREGATE BASE AFFECTED BY STORM DRAIN CONSTRUCTION IN LIKE AND KIND PER STD. DWG. 120 AS MODIFIED BY TRENCH DETAIL ON SHEET 2A. OVERLAY ENTIRE TRAVELED LANE WIDTH WHEN REQUIRED BY STD. DWG. 120.

THE CONTRACTOR IS REQUIRED TO NOTIFY MR. DANIEL FLORES OF THE METROPOLITAN WATER DISTRICT (MWD) WATER SYSTEM OPERATIONS GROUP AT (909) 392-5137 OR (909) 532-6494 AT LEAST TWO WORKING DAYS (MONDAY-THURSDAY) PRIOR TO COMMENCING ANY WORK IN THE VICINITY OF MWD FACILITIES. SEE ADDITIONAL MWD REQUIREMENTS ON SHEET 2A.

THE CONTRACTOR IS REQUIRED TO NOTIFY THE SOUTHERN CALIFORNIA GAS COMPANY AT (951) 845-0712 TWO WORKING DAYS (MONDAY-FRIDAY) PRIOR TO ANY WORK WITHIN 10' OF GAS FACILITIES 12" AND LARGER. NO EXCAVATION WITHIN 10' OF THESE GAS FACILITIES SHALL BE PERFORMED WITHOUT THE PRESENCE OF A GAS COMPANY AGENT ON SITE.

AS-BUILT

REGISTERED PROFESSIONAL ENGINEER JOSEPH C. CALDWELL NO. C67239 CIVIL STATE OF CALIFORNIA

7/24/15 DATED

JOSEPH C. CALDWELL

Underground Service Alert

DIG BEFORE YOU BUILD

Call: TOLL FREE 811

TWO WORKING DAYS BEFORE YOU DIG

COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS

RECOMMENDED BY:

APPROVED BY:

TRAFFIC DIVISION DATE

MELISSA L. WALKER, P.E., PERMIT ENGINEER PERMIT/OPERATIONS SUPPORT DIVISION DATE

NO.	DESCRIPTION OF REVISION	DATE	CITY APPROVED

CITY OF RANCHO CUCAMONGA

PLAN AND PROFILE

ETIWANDA AVENUE STORM DRAIN

6TH STREET TO ARROW ROUTE

DRC2013-00155 PM19448 ROW2013-00701

APPROVED BY: CITY ENGINEER DATE: 8/11/15

R.C.E. NO. 53672

DESIGNED	AED
DRAWN	AED
CHECKED	ETH

ALBERT A. WEBB ASSOCIATES — ENGINEERING CONSULTANTS 3788 McCRAY STREET RIVERSIDE CA. 92506 PH. (951) 686-1070 FAX (951) 788-1256

RECOMMENDED

SHEET 4A OF 9

DRAWING NO. 2335-D

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APPENDIX B

HYDROLOGY CALCULATIONS

EXISTING CONDITION
100-YEAR

```
************************************************************************
            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
         (Reference: 1986 SAN BERNARDINO CO. HYDROLOGY CRITERION)
        (c) Copyright 1983-2016 Advanced Engineering Software (aes)
            Ver. 23.0  Release Date: 07/01/2016  License ID 1435

                          Analysis prepared by:

                        THIENES ENGINEERING, INC.
                           14349 FIRESTONE BLVD
                           LA MIRADA, CA 90638


 ************************* DESCRIPTION OF STUDY *************************
* JOB #3687 ETIWANDA DISTRIBUTION CENTER, RANCHO CUCAMONGA               *
* EXISTING CONDITION 100-YEAR                                            *
* STREET FLOW FRONTING SITE TRIBUTARY TO ETIWANDA AVE S.D.               *
 ************************************************************************

  FILE NAME: W:\3687\EX100A.DAT
  TIME/DATE OF STUDY: 17:40 10/15/2018
========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.3800

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   670.00
  ELEVATION DATA: UPSTREAM(FEET) =   1125.60  DOWNSTREAM(FEET) =   1111.90

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    8.937
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.326
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 B        0.75      0.42     0.100    76    8.94
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      2.89
  TOTAL AREA(ACRES) =      0.75   PEAK FLOW RATE(CFS) =      2.89

************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  62
------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

```
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1111.90  DOWNSTREAM ELEVATION(FEET) = 1106.10
  STREET LENGTH(FEET) =   445.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 30.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.018
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.71
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.37
    HALFSTREET FLOOD WIDTH(FEET) =   11.52
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.69
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.99
  STREET FLOW TRAVEL TIME(MIN.) =   2.76   Tc(MIN.) =   11.69
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.681
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 B        0.50      0.42     0.100    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    0.50      SUBAREA RUNOFF(CFS) =    1.64
  EFFECTIVE AREA(ACRES) =      1.25    AREA-AVERAGED Fm(INCH/HR) =  0.04
  AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        1.2        PEAK FLOW RATE(CFS) =       4.09

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.38   HALFSTREET FLOOD WIDTH(FEET) =  12.07
  FLOW VELOCITY(FEET/SEC.) =  2.74   DEPTH*VELOCITY(FT*FT/SEC.) =   1.04
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =    1115.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1106.10  DOWNSTREAM ELEVATION(FEET) = 1092.00
  STREET LENGTH(FEET) =   895.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 30.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.018
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       5.50
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.40
    HALFSTREET FLOOD WIDTH(FEET) =   13.16
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    3.16
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.26
  STREET FLOW TRAVEL TIME(MIN.) =   4.73   Tc(MIN.) =   16.42
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.003
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 B        1.05      0.42     0.100    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.05      SUBAREA RUNOFF(CFS) =    2.80
  EFFECTIVE AREA(ACRES) =      2.30    AREA-AVERAGED Fm(INCH/HR) =  0.04
  AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        2.3        PEAK FLOW RATE(CFS) =       6.13
```

```
  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.41   HALFSTREET FLOOD WIDTH(FEET) =  13.79
  FLOW VELOCITY(FEET/SEC.) =  3.24   DEPTH*VELOCITY(FT*FT/SEC.) =   1.32
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    103.00 =    2010.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    103.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   16.42
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.003
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  NATURAL FAIR COVER
  "OPEN BRUSH"                B        1.60      0.31     1.000    84
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA AREA(ACRES) =    1.60      SUBAREA RUNOFF(CFS) =    3.88
  EFFECTIVE AREA(ACRES) =      3.90   AREA-AVERAGED Fm(INCH/HR) =  0.15
  AREA-AVERAGED Fp(INCH/HR) =  0.32  AREA-AVERAGED Ap =  0.47
  TOTAL AREA(ACRES) =        3.9       PEAK FLOW RATE(CFS) =      10.01
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        3.9  TC(MIN.) =     16.42
  EFFECTIVE AREA(ACRES) =      3.90  AREA-AVERAGED Fm(INCH/HR)=  0.15
  AREA-AVERAGED Fp(INCH/HR) =  0.32  AREA-AVERAGED Ap = 0.469
  PEAK FLOW RATE(CFS)   =      10.01
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

```
************************************************************************
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                          Analysis prepared by:

                        THIENES ENGINEERING, INC.
                           14349 FIRESTONE BLVD
                           LA MIRADA, CA 90638


 ************************* DESCRIPTION OF STUDY *************************
* JOB #3687 ETIWANDA DISTRIBUTION CENTER, RANCHO CUCAMONGA               *
* EXISTING CONDITION 100-YEAR                                            *
* NORTHEAST OFFSITE FLOW TRIBUTARY TO SITE                               *
 ************************************************************************

  FILE NAME: W:\3687\EX100B.DAT
  TIME/DATE OF STUDY: 11:03 10/11/2018
========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.3800

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   780.00
  ELEVATION DATA: UPSTREAM(FEET) =   1130.00  DOWNSTREAM(FEET) =   1116.50

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.819
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.088
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL POOR COVER
  "OPEN BRUSH"               A        0.80      0.35     1.000    81   16.96
  COMMERCIAL                 A        4.00      0.74     0.100    52    9.82
  NATURAL POOR COVER
  "OPEN BRUSH"               B        3.50      0.20     1.000    92   16.96
  COMMERCIAL                 B        3.10      0.42     0.100    76    9.82
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.28
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.439
  SUBAREA RUNOFF(CFS) =     40.68
  TOTAL AREA(ACRES) =     11.40   PEAK FLOW RATE(CFS) =     40.68
```

```
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       11.4  TC(MIN.) =      9.82
  EFFECTIVE AREA(ACRES) =     11.40  AREA-AVERAGED Fm(INCH/HR)=  0.12
  AREA-AVERAGED Fp(INCH/HR) =  0.28  AREA-AVERAGED Ap = 0.439
  PEAK FLOW RATE(CFS)   =      40.68
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```

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 ************************************************************************
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                           Analysis prepared by:

                         THIENES ENGINEERING, INC.
                            14349 FIRESTONE BLVD
                            LA MIRADA, CA 90638


  ************************* DESCRIPTION OF STUDY *************************
 * JOB #3687 ETIWANDA DISTRIBUTION CENTER, RANCHO CUCAMONGA                *
 * EXISTING CONDITION 100-YEAR                                             *
 * SOUTHEAST PORTION OF SITE TRIBUTARY TO ETIWANDA AVE S.D.                *
  ************************************************************************

   FILE NAME: W:\3687\EX100C.DAT
   TIME/DATE OF STUDY: 10:16 10/11/2018
 ============================================================================
   USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
 ============================================================================
                      --*TIME-OF-CONCENTRATION MODEL*--

   USER SPECIFIED STORM EVENT(YEAR) =  100.00
   SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
   SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
   *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

   SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
   USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.3800

   *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

   *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
      HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
      WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
 NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
 ===  =====  =========  ================  ======  ===== ====== ===== =======
   1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

   GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
     1. Relative Flow-Depth =  0.00 FEET
        as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
     2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
   *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
    OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
   *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

 ************************************************************************
   FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
 ------------------------------------------------------------------------
   >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
   >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
 ============================================================================
   INITIAL SUBAREA FLOW-LENGTH(FEET) =   485.00
   ELEVATION DATA: UPSTREAM(FEET) =   1114.00  DOWNSTREAM(FEET) =   1108.00

   Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
   SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    8.683
   * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.401
   SUBAREA Tc AND LOSS RATE DATA(AMC III):
    DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
        LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
   NATURAL FAIR COVER
   "OPEN BRUSH"               B        1.75      0.31     1.000    84   20.17
   COMMERCIAL                 B        1.75      0.42     0.100    76    8.68
   SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.32
   SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.550
   SUBAREA RUNOFF(CFS) =     13.31
   TOTAL AREA(ACRES) =      3.50   PEAK FLOW RATE(CFS) =     13.31

 ************************************************************************
   FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  81
```

```
--------------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
  MAINLINE Tc(MIN.) =    8.68
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.401
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  NATURAL POOR COVER
  "OPEN BRUSH"               B        0.80      0.20     1.000    92
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.20
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA AREA(ACRES) =    0.80      SUBAREA RUNOFF(CFS) =    3.02
  EFFECTIVE AREA(ACRES) =      4.30   AREA-AVERAGED Fm(INCH/HR) =  0.18
  AREA-AVERAGED Fp(INCH/HR) =  0.28  AREA-AVERAGED Ap =  0.63
  TOTAL AREA(ACRES) =        4.3       PEAK FLOW RATE(CFS) =      16.34

********************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  51
--------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1108.00  DOWNSTREAM(FEET) =   1097.50
  CHANNEL LENGTH THRU SUBAREA(FEET) =   600.00   CHANNEL SLOPE =  0.0175
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  10.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.951
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 B        2.60      0.42     0.100    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      20.91
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   5.85
  AVERAGE FLOW DEPTH(FEET) =   0.60   TRAVEL TIME(MIN.) =   1.71
  Tc(MIN.) =   10.39
  SUBAREA AREA(ACRES) =     2.60       SUBAREA RUNOFF(CFS) =    9.15
  EFFECTIVE AREA(ACRES) =      6.90     AREA-AVERAGED Fm(INCH/HR) =   0.13
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.43
  TOTAL AREA(ACRES) =        6.9         PEAK FLOW RATE(CFS) =      23.74

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.63   FLOW VELOCITY(FEET/SEC.) =   6.01
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =    1085.00 FEET.
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        6.9  TC(MIN.) =     10.39
  EFFECTIVE AREA(ACRES) =      6.90  AREA-AVERAGED Fm(INCH/HR)=  0.13
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap = 0.433
  PEAK FLOW RATE(CFS)   =      23.74
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```

```
************************************************************************
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                          Analysis prepared by:

                        THIENES ENGINEERING, INC.
                           14349 FIRESTONE BLVD
                           LA MIRADA, CA 90638


 ************************* DESCRIPTION OF STUDY *************************
* JOB #3687 ETIWANDA DISTRIBUTION CENTER, RANCHO CUCAMONGA               *
* EXISTING CONDITION 100-YEAR                                           *
* CENTER PORTION OF SITE PLUS N.E. OFFSITE TRIBUTARY TO ETIWANDA AVE S.D.  *
 ************************************************************************

  FILE NAME: W:\3687\EX100D.DAT
  TIME/DATE OF STUDY: 17:43 10/15/2018
========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.3800

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

************************************************************************
  FLOW PROCESS FROM NODE    300.00 TO NODE    301.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   480.00
  ELEVATION DATA: UPSTREAM(FEET) =   1127.00  DOWNSTREAM(FEET) =   1116.50

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    7.716
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.724
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.50      0.74     0.100    52    7.72
  COMMERCIAL                 B        0.95      0.42     0.100    76    7.72
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.53
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      6.10
  TOTAL AREA(ACRES) =      1.45   PEAK FLOW RATE(CFS) =      6.10

************************************************************************
  FLOW PROCESS FROM NODE    300.00 TO NODE    301.00 IS CODE =  81
------------------------------------------------------------------------
```

```
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    7.72
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.724
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.35      0.74     0.100    52
  COMMERCIAL                 B        0.80      0.42     0.100    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.52
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.15      SUBAREA RUNOFF(CFS) =    4.84
  EFFECTIVE AREA(ACRES) =      2.60   AREA-AVERAGED Fm(INCH/HR) =  0.05
  AREA-AVERAGED Fp(INCH/HR) =  0.53  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        2.6       PEAK FLOW RATE(CFS) =      10.93

****************************************************************************
  FLOW PROCESS FROM NODE    301.00 TO NODE    311.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1112.40  DOWNSTREAM(FEET) =  1108.00
  FLOW LENGTH(FEET) =   580.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  21.0 INCH PIPE IS  13.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.65
  ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      10.93
  PIPE TRAVEL TIME(MIN.) =   1.45    Tc(MIN.) =    9.17
  LONGEST FLOWPATH FROM NODE    300.00 TO NODE    311.00 =    1060.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    311.00 TO NODE    311.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    9.17
  RAINFALL INTENSITY(INCH/HR) =   4.26
  AREA-AVERAGED Fm(INCH/HR) =  0.05
  AREA-AVERAGED Fp(INCH/HR) =  0.53
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       2.60
  TOTAL STREAM AREA(ACRES) =       2.60
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      10.93

****************************************************************************
  FLOW PROCESS FROM NODE    310.00 TO NODE    311.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   600.00
  ELEVATION DATA: UPSTREAM(FEET) =   1119.00  DOWNSTREAM(FEET) =   1112.20

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.622
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.138
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 B        4.05      0.42     0.100    76    9.62
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =     14.93
  TOTAL AREA(ACRES) =      4.05   PEAK FLOW RATE(CFS) =     14.93

****************************************************************************
  FLOW PROCESS FROM NODE    311.00 TO NODE    311.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    9.62
  RAINFALL INTENSITY(INCH/HR) =   4.14
```

```
  AREA-AVERAGED Fm(INCH/HR) =  0.04
  AREA-AVERAGED Fp(INCH/HR) =  0.42
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       4.05
  TOTAL STREAM AREA(ACRES) =       4.05
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      14.93

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    111.00 IS CODE =   7
----------------------------------------------------------------------------
  >>>>>USER SPECIFIED HYDROLOGY INFORMATION AT NODE<<<<<
============================================================================
  USER-SPECIFIED VALUES ARE AS FOLLOWS:
  TC(MIN.) =    9.82   RAINFALL INTENSITY(INCH/HR) =  4.09
  EFFECTIVE AREA(ACRES) =    11.40
  TOTAL AREA(ACRES) =    11.40        PEAK FLOW RATE(CFS) =     40.68
  AREA-AVERAGED Fm(INCH/HR) =   0.12  AREA-AVERAGED Fp(INCH/HR) =   0.28
  AREA-AVERAGED Ap =  0.44
  NOTE: EFFECTIVE AREA IS USED AS THE TOTAL CONTRIBUTING AREA FOR ALL
        CONFLUENCE ANALYSES.

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    311.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1116.50  DOWNSTREAM(FEET) =  1108.00
  FLOW LENGTH(FEET) =   730.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  21.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.73
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      40.68
  PIPE TRAVEL TIME(MIN.) =   1.13    Tc(MIN.) =   10.95
  LONGEST FLOWPATH FROM NODE    111.00 TO NODE    311.00 =     730.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    311.00 TO NODE    311.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  3 ARE:
  TIME OF CONCENTRATION(MIN.) =   10.95
  RAINFALL INTENSITY(INCH/HR) =   3.83
  AREA-AVERAGED Fm(INCH/HR) =  0.12
  AREA-AVERAGED Fp(INCH/HR) =  0.28
  AREA-AVERAGED Ap =  0.44
  EFFECTIVE STREAM AREA(ACRES) =      11.40
  TOTAL STREAM AREA(ACRES) =      11.40
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      40.68

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       10.93    9.17    4.260  0.53( 0.05) 0.10       2.6     300.00
      2       14.93    9.62    4.138  0.42( 0.04) 0.10       4.1     310.00
      3       40.68   10.95    3.829  0.28( 0.12) 0.44      11.4     111.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  3 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       63.59    9.17    4.260  0.30( 0.09) 0.30      16.0     300.00
      2       64.27    9.62    4.138  0.30( 0.09) 0.30      16.7     310.00
      3       64.29   10.95    3.829  0.30( 0.09) 0.31      18.0     111.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      64.29    Tc(MIN.) =    10.95
  EFFECTIVE AREA(ACRES) =      18.05   AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.31
  TOTAL AREA(ACRES) =       18.0
  LONGEST FLOWPATH FROM NODE    300.00 TO NODE    311.00 =    1060.00 FEET.
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    311.00 TO NODE    322.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1108.00  DOWNSTREAM(FEET) =  1099.92
  FLOW LENGTH(FEET) =   460.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  23.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  14.04
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      64.29
  PIPE TRAVEL TIME(MIN.) =   0.55    Tc(MIN.) =   11.50
  LONGEST FLOWPATH FROM NODE    300.00 TO NODE    322.00 =    1520.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    322.00 TO NODE    322.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   11.50
  RAINFALL INTENSITY(INCH/HR) =   3.72
  AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.31
  EFFECTIVE STREAM AREA(ACRES) =      18.05
  TOTAL STREAM AREA(ACRES) =      18.05
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      64.29

****************************************************************************
  FLOW PROCESS FROM NODE    320.00 TO NODE    321.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   650.00
  ELEVATION DATA: UPSTREAM(FEET) =   1119.00  DOWNSTREAM(FEET) =   1112.50

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   10.187
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.999
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        4.60      0.74     0.100    52   10.19
  COMMERCIAL                 B        1.10      0.42     0.100    76   10.19
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.68
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =     20.17
  TOTAL AREA(ACRES) =      5.70   PEAK FLOW RATE(CFS) =     20.17

****************************************************************************
  FLOW PROCESS FROM NODE    321.00 TO NODE    322.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1112.50  DOWNSTREAM(FEET) =   1106.05
  CHANNEL LENGTH THRU SUBAREA(FEET) =   900.00   CHANNEL SLOPE =  0.0072
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  10.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.384
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.70      0.74     0.100    52
  COMMERCIAL                 B        5.35      0.42     0.100    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.50
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      30.77
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   4.58
  AVERAGE FLOW DEPTH(FEET) =   0.82   TRAVEL TIME(MIN.) =   3.27
  Tc(MIN.) =   13.46
  SUBAREA AREA(ACRES) =     7.05       SUBAREA RUNOFF(CFS) =   21.15
  EFFECTIVE AREA(ACRES) =     12.75     AREA-AVERAGED Fm(INCH/HR) =   0.06
```

```
 AREA-AVERAGED Fp(INCH/HR) =   0.58  AREA-AVERAGED Ap =   0.10
 TOTAL AREA(ACRES) =       12.8         PEAK FLOW RATE(CFS) =      38.16

 END OF SUBAREA CHANNEL FLOW HYDRAULICS:
 DEPTH(FEET) =  0.89   FLOW VELOCITY(FEET/SEC.) =   4.84
 LONGEST FLOWPATH FROM NODE    320.00 TO NODE    322.00 =    1550.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    322.00 TO NODE    322.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =   13.46
 RAINFALL INTENSITY(INCH/HR) =   3.38
 AREA-AVERAGED Fm(INCH/HR) =  0.06
 AREA-AVERAGED Fp(INCH/HR) =  0.58
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =      12.75
 TOTAL STREAM AREA(ACRES) =      12.75
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      38.16

 ** CONFLUENCE DATA **
  STREAM       Q      Tc    Intensity   Fp(Fm)     Ap      Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       63.59    9.72    4.114  0.30( 0.09) 0.30      16.0     300.00
     1       64.27   10.17    4.003  0.30( 0.09) 0.30      16.7     310.00
     1       64.29   11.50    3.718  0.30( 0.09) 0.31      18.0     111.00
     2       38.16   13.46    3.384  0.58( 0.06) 0.10      12.8     320.00

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.

 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc    Intensity   Fp(Fm)     Ap      Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       97.20    9.72    4.114  0.35( 0.08) 0.23      25.2     300.00
     2       98.47   10.17    4.003  0.35( 0.08) 0.23      26.3     310.00
     3      100.18   11.50    3.718  0.35( 0.08) 0.23      28.9     111.00
     4       96.51   13.46    3.384  0.35( 0.08) 0.23      30.8     320.00

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =     100.18    Tc(MIN.) =    11.50
 EFFECTIVE AREA(ACRES) =      28.94   AREA-AVERAGED Fm(INCH/HR) =  0.08
 AREA-AVERAGED Fp(INCH/HR) =  0.35  AREA-AVERAGED Ap =  0.23
 TOTAL AREA(ACRES) =       30.8
 LONGEST FLOWPATH FROM NODE    320.00 TO NODE    322.00 =    1550.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    322.00 TO NODE    332.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =  1099.88  DOWNSTREAM(FEET) =  1093.20
 FLOW LENGTH(FEET) =   490.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  39.0 INCH PIPE IS  31.4 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =  14.00
 ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =     100.18
 PIPE TRAVEL TIME(MIN.) =   0.58    Tc(MIN.) =   12.08
 LONGEST FLOWPATH FROM NODE    320.00 TO NODE    332.00 =    2040.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    332.00 TO NODE    332.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =   12.08
 RAINFALL INTENSITY(INCH/HR) =   3.61
 AREA-AVERAGED Fm(INCH/HR) =  0.08
 AREA-AVERAGED Fp(INCH/HR) =  0.35
 AREA-AVERAGED Ap =  0.23
```

```
  EFFECTIVE STREAM AREA(ACRES) =      28.94
  TOTAL STREAM AREA(ACRES) =      30.80
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     100.18

****************************************************************************
  FLOW PROCESS FROM NODE    330.00 TO NODE    331.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   510.00
  ELEVATION DATA: UPSTREAM(FEET) =   1113.50  DOWNSTREAM(FEET) =   1108.50

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.282
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.229
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL FAIR COVER
  "OPEN BRUSH"                B        0.80      0.31     1.000    84   21.56
  COMMERCIAL                  B        0.85      0.42     0.100    76    9.28
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.32
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.536
  SUBAREA RUNOFF(CFS) =      6.03
  TOTAL AREA(ACRES) =      1.65   PEAK FLOW RATE(CFS) =      6.03

****************************************************************************
  FLOW PROCESS FROM NODE    331.00 TO NODE    332.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1108.50  DOWNSTREAM(FEET) =   1093.20
  CHANNEL LENGTH THRU SUBAREA(FEET) =   495.00   CHANNEL SLOPE =  0.0309
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  30.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.778
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                  B        1.10      0.42     0.100    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       7.88
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   4.30
  AVERAGE FLOW DEPTH(FEET) =   0.25   TRAVEL TIME(MIN.) =   1.92
  Tc(MIN.) =   11.20
  SUBAREA AREA(ACRES) =     1.10       SUBAREA RUNOFF(CFS) =    3.70
  EFFECTIVE AREA(ACRES) =      2.75     AREA-AVERAGED Fm(INCH/HR) =   0.12
  AREA-AVERAGED Fp(INCH/HR) =   0.33  AREA-AVERAGED Ap =   0.36
  TOTAL AREA(ACRES) =        2.8         PEAK FLOW RATE(CFS) =       9.05

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.26   FLOW VELOCITY(FEET/SEC.) =   4.39
  LONGEST FLOWPATH FROM NODE    330.00 TO NODE    332.00 =    1005.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    332.00 TO NODE    332.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   11.20
  RAINFALL INTENSITY(INCH/HR) =   3.78
  AREA-AVERAGED Fm(INCH/HR) =  0.12
  AREA-AVERAGED Fp(INCH/HR) =  0.33
  AREA-AVERAGED Ap =  0.36
  EFFECTIVE STREAM AREA(ACRES) =       2.75
  TOTAL STREAM AREA(ACRES) =       2.75
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       9.05

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
```

1	97.20	10.30	3.972	0.35(0.08)	0.23	25.2	300.00
1	98.47	10.75	3.872	0.35(0.08)	0.23	26.3	310.00
1	100.18	12.08	3.610	0.35(0.08)	0.23	28.9	111.00
1	96.51	14.04	3.298	0.35(0.08)	0.23	30.8	320.00
2	9.05	11.20	3.778	0.33(0.12)	0.36	2.8	330.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
CONFLUENCE FORMULA USED FOR 2 STREAMS.

** PEAK FLOW RATE TABLE **

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	105.97	10.30	3.972	0.35(0.08)	0.24	27.7	300.00
2	107.38	10.75	3.872	0.35(0.08)	0.24	28.9	310.00
3	108.10	11.20	3.778	0.35(0.08)	0.24	29.9	330.00
4	108.82	12.08	3.610	0.34(0.08)	0.24	31.7	111.00
5	104.38	14.04	3.298	0.35(0.08)	0.24	33.5	320.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
PEAK FLOW RATE(CFS) = 108.82 Tc(MIN.) = 12.08
EFFECTIVE AREA(ACRES) = 31.69 AREA-AVERAGED Fm(INCH/HR) = 0.08
AREA-AVERAGED Fp(INCH/HR) = 0.34 AREA-AVERAGED Ap = 0.24
TOTAL AREA(ACRES) = 33.5
LONGEST FLOWPATH FROM NODE 320.00 TO NODE 332.00 = 2040.00 FEET.

==========

END OF STUDY SUMMARY:
TOTAL AREA(ACRES) = 33.5 TC(MIN.) = 12.08
EFFECTIVE AREA(ACRES) = 31.69 AREA-AVERAGED Fm(INCH/HR)= 0.08
AREA-AVERAGED Fp(INCH/HR) = 0.34 AREA-AVERAGED Ap = 0.245
PEAK FLOW RATE(CFS) = 108.82

** PEAK FLOW RATE TABLE **

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	105.97	10.30	3.972	0.35(0.08)	0.24	27.7	300.00
2	107.38	10.75	3.872	0.35(0.08)	0.24	28.9	310.00
3	108.10	11.20	3.778	0.35(0.08)	0.24	29.9	330.00
4	108.82	12.08	3.610	0.34(0.08)	0.24	31.7	111.00
5	104.38	14.04	3.298	0.35(0.08)	0.24	33.5	320.00

==========
==========

END OF RATIONAL METHOD ANALYSIS

```
************************************************************************
            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
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                          Analysis prepared by:

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                           LA MIRADA, CA 90638


 ************************* DESCRIPTION OF STUDY *************************
* JOB #3687 ETIWANDA DISTRIBUTION CENTER, RANCHO CUCAMONGA               *
* EXISTING CONDITION 100-YEAR                                            *
* PORTION OF SITE TRIBUTARY TO EXISTING ONSITE CHANNEL                   *
 ************************************************************************

  FILE NAME: W:\3687\EX100E.DAT
  TIME/DATE OF STUDY: 11:24 10/11/2018
========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.3800

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

************************************************************************
  FLOW PROCESS FROM NODE    400.00 TO NODE    401.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =  1000.00
  ELEVATION DATA: UPSTREAM(FEET) =   1129.50  DOWNSTREAM(FEET) =   1117.50

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   20.152
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.656
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL POOR COVER
  "OPEN BRUSH"                A        7.30      0.35     1.000    81   20.15
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.35
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA RUNOFF(CFS) =     15.13
  TOTAL AREA(ACRES) =      7.30   PEAK FLOW RATE(CFS) =     15.13

************************************************************************
  FLOW PROCESS FROM NODE    400.00 TO NODE    401.00 IS CODE =  81
------------------------------------------------------------------------
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  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
  MAINLINE Tc(MIN.) =   20.15
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.656
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.15      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.15      SUBAREA RUNOFF(CFS) =    2.67
  EFFECTIVE AREA(ACRES) =      8.45   AREA-AVERAGED Fm(INCH/HR) =  0.32
  AREA-AVERAGED Fp(INCH/HR) =  0.36  AREA-AVERAGED Ap =  0.88
  TOTAL AREA(ACRES) =        8.4       PEAK FLOW RATE(CFS) =      17.80

********************************************************************************
  FLOW PROCESS FROM NODE    401.00 TO NODE    402.00 IS CODE =  51
--------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1117.50  DOWNSTREAM(FEET) =   1108.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   285.00   CHANNEL SLOPE =  0.0333
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  20.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.600
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        5.55      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      24.11
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   6.52
  AVERAGE FLOW DEPTH(FEET) =   0.43   TRAVEL TIME(MIN.) =   0.73
  Tc(MIN.) =   20.88
  SUBAREA AREA(ACRES) =     5.55       SUBAREA RUNOFF(CFS) =   12.61
  EFFECTIVE AREA(ACRES) =     14.00     AREA-AVERAGED Fm(INCH/HR) =   0.22
  AREA-AVERAGED Fp(INCH/HR) =   0.39  AREA-AVERAGED Ap =   0.57
  TOTAL AREA(ACRES) =       14.0         PEAK FLOW RATE(CFS) =      29.99

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.47   FLOW VELOCITY(FEET/SEC.) =   6.84
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    402.00 =    1285.00 FEET.

********************************************************************************
  FLOW PROCESS FROM NODE    401.00 TO NODE    402.00 IS CODE =  81
--------------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
  MAINLINE Tc(MIN.) =   20.88
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.600
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.65      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    0.65      SUBAREA RUNOFF(CFS) =    1.48
  EFFECTIVE AREA(ACRES) =     14.65   AREA-AVERAGED Fm(INCH/HR) =  0.21
  AREA-AVERAGED Fp(INCH/HR) =  0.39  AREA-AVERAGED Ap =  0.55
  TOTAL AREA(ACRES) =       14.6       PEAK FLOW RATE(CFS) =      31.47

********************************************************************************
  FLOW PROCESS FROM NODE    402.00 TO NODE    403.00 IS CODE =  51
--------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1108.00  DOWNSTREAM(FEET) =   1104.10
  CHANNEL LENGTH THRU SUBAREA(FEET) =   405.00   CHANNEL SLOPE =  0.0096
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  20.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   3.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.492
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
```

```
                                                                EX100E
  COMMERCIAL                  A        3.30      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      35.06
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   4.44
  AVERAGE FLOW DEPTH(FEET) =   0.63   TRAVEL TIME(MIN.) =   1.52
  Tc(MIN.) =   22.40
  SUBAREA AREA(ACRES) =     3.30       SUBAREA RUNOFF(CFS) =    7.18
  EFFECTIVE AREA(ACRES) =     17.95     AREA-AVERAGED Fm(INCH/HR) =   0.19
  AREA-AVERAGED Fp(INCH/HR) =   0.40  AREA-AVERAGED Ap =   0.47
  TOTAL AREA(ACRES) =       17.9         PEAK FLOW RATE(CFS) =      37.23

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.64   FLOW VELOCITY(FEET/SEC.) =   4.57
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    403.00 =    1690.00 FEET.
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       17.9  TC(MIN.) =     22.40
  EFFECTIVE AREA(ACRES) =     17.95  AREA-AVERAGED Fm(INCH/HR)=  0.19
  AREA-AVERAGED Fp(INCH/HR) =  0.40  AREA-AVERAGED Ap = 0.466
  PEAK FLOW RATE(CFS)   =      37.23
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

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******************************************************************************
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                          Analysis prepared by:

                        THIENES ENGINEERING, INC.
                           14349 FIRESTONE BLVD
                           LA MIRADA, CA 90638


 ************************* DESCRIPTION OF STUDY *************************
* JOB #3687 ETIWANDA DISTRIBUTION CENTER, RANCHO CUCAMONGA                *
* EXISTING CONDITION 100-YEAR                                             *
* WESTERLY PORTION OF SITE TRIBUTARY TO SOUTHERLY NEIGHBORS               *
 ************************************************************************

  FILE NAME: W:\3687\EX100F.DAT
  TIME/DATE OF STUDY: 09:37 10/17/2018
==============================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==============================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.3800

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

******************************************************************************
  FLOW PROCESS FROM NODE    500.00 TO NODE    501.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   885.00
  ELEVATION DATA: UPSTREAM(FEET) =   1129.50  DOWNSTREAM(FEET) =   1117.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   18.576
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.789
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL POOR COVER
  "OPEN BRUSH"                A        4.50      0.35     1.000    81   18.58
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.35
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA RUNOFF(CFS) =      9.86
  TOTAL AREA(ACRES) =      4.50   PEAK FLOW RATE(CFS) =      9.86

******************************************************************************
  FLOW PROCESS FROM NODE    500.00 TO NODE    501.00 IS CODE =  81
------------------------------------------------------------------------------
```

```
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
  MAINLINE Tc(MIN.) =   18.58
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.789
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.20      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    0.20      SUBAREA RUNOFF(CFS) =    0.49
  EFFECTIVE AREA(ACRES) =      4.70   AREA-AVERAGED Fm(INCH/HR) =  0.34
  AREA-AVERAGED Fp(INCH/HR) =  0.35  AREA-AVERAGED Ap =  0.96
  TOTAL AREA(ACRES) =        4.7       PEAK FLOW RATE(CFS) =      10.35

********************************************************************************
  FLOW PROCESS FROM NODE    501.00 TO NODE    502.00 IS CODE =  51
--------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1117.00  DOWNSTREAM(FEET) =   1110.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   900.00   CHANNEL SLOPE =  0.0078
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  20.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.441
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        2.90      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      13.44
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   3.25
  AVERAGE FLOW DEPTH(FEET) =   0.45   TRAVEL TIME(MIN.) =   4.62
  Tc(MIN.) =   23.19
  SUBAREA AREA(ACRES) =     2.90       SUBAREA RUNOFF(CFS) =    6.18
  EFFECTIVE AREA(ACRES) =      7.60     AREA-AVERAGED Fm(INCH/HR) =   0.24
  AREA-AVERAGED Fp(INCH/HR) =   0.38  AREA-AVERAGED Ap =   0.63
  TOTAL AREA(ACRES) =        7.6         PEAK FLOW RATE(CFS) =      15.06

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.48   FLOW VELOCITY(FEET/SEC.) =   3.32
  LONGEST FLOWPATH FROM NODE    500.00 TO NODE    502.00 =    1785.00 FEET.
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        7.6  TC(MIN.) =     23.19
  EFFECTIVE AREA(ACRES) =      7.60  AREA-AVERAGED Fm(INCH/HR)=  0.24
  AREA-AVERAGED Fp(INCH/HR) =  0.38  AREA-AVERAGED Ap = 0.633
  PEAK FLOW RATE(CFS)   =      15.06
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```

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******************************************************************************
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                          Analysis prepared by:

                        THIENES ENGINEERING, INC.
                           14349 FIRESTONE BLVD
                           LA MIRADA, CA 90638


 ************************ DESCRIPTION OF STUDY ************************
* JOB #3687 ETIWANDA DISTRIBUTION CENTER, RANCHO CUCAMONGA                *
* EXISTING CONDITION 100-YEAR                                             *
* SOUTHERLY PORTION OF SITE TRIBUTARY TO SOUTHERLY NEIGHBORS              *
 *************************************************************************

  FILE NAME: W:\3687\EX100G.DAT
  TIME/DATE OF STUDY: 15:53 10/11/2018
==============================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==============================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.3800

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

******************************************************************************
  FLOW PROCESS FROM NODE    600.00 TO NODE    601.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   115.00
  ELEVATION DATA: UPSTREAM(FEET) =   1111.60  DOWNSTREAM(FEET) =   1110.20

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.000
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  6.129
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.25      0.74     0.100    52    5.00
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      1.36
  TOTAL AREA(ACRES) =      0.25   PEAK FLOW RATE(CFS) =      1.36
==============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.2  TC(MIN.) =      5.00
  EFFECTIVE AREA(ACRES) =      0.25  AREA-AVERAGED Fm(INCH/HR)=  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap = 0.100
```

```
  PEAK FLOW RATE(CFS)   =       1.36
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```

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************************************************************************
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                          Analysis prepared by:

                        THIENES ENGINEERING, INC.
                           14349 FIRESTONE BLVD
                           LA MIRADA, CA 90638


 ************************* DESCRIPTION OF STUDY *************************
* JOB #3687 ETIWANDA DISTRIBUTION CENTER, RANCHO CUCAMONGA               *
* EXISTING CONDITION 100-YEAR                                            *
* NORTHERLY OFFSITE FLOWS TRIBUTARY TO EXISTING ONSITE CHANNEL           *
 ************************************************************************

  FILE NAME: W:\3687\EX100H.DAT
  TIME/DATE OF STUDY: 15:56 10/11/2018
========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.3800

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

************************************************************************
  FLOW PROCESS FROM NODE    700.00 TO NODE    701.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =  3470.00
  ELEVATION DATA: UPSTREAM(FEET) =   1165.00  DOWNSTREAM(FEET) =   1130.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   19.873
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.678
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A       78.00      0.74     0.100    52   19.87
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =    182.79
  TOTAL AREA(ACRES) =     78.00   PEAK FLOW RATE(CFS) =    182.79

************************************************************************
  FLOW PROCESS FROM NODE    701.00 TO NODE    702.00 IS CODE =  51
------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
```

```
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1130.00  DOWNSTREAM(FEET) =   1120.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =  1280.00   CHANNEL SLOPE =  0.0078
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  10.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   2.50
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.493
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A       98.70      0.74     0.100    52
  COMMERCIAL                 B       15.30      0.42     0.100    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.70
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =     307.14
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   8.47
  AVERAGE FLOW DEPTH(FEET) =   1.90   TRAVEL TIME(MIN.) =   2.52
  Tc(MIN.) =   22.39
  SUBAREA AREA(ACRES) =   114.00       SUBAREA RUNOFF(CFS) =  248.60
  EFFECTIVE AREA(ACRES) =    192.00     AREA-AVERAGED Fm(INCH/HR) =   0.07
  AREA-AVERAGED Fp(INCH/HR) =   0.72  AREA-AVERAGED Ap =   0.10
  TOTAL AREA(ACRES) =      192.0         PEAK FLOW RATE(CFS) =     418.40

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  2.14   FLOW VELOCITY(FEET/SEC.) =   9.13
  LONGEST FLOWPATH FROM NODE    700.00 TO NODE    702.00 =    4750.00 FEET.
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =      192.0  TC(MIN.) =     22.39
  EFFECTIVE AREA(ACRES) =    192.00  AREA-AVERAGED Fm(INCH/HR)=  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.72  AREA-AVERAGED Ap = 0.100
  PEAK FLOW RATE(CFS)   =     418.40
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```

PROPOSED CONDITION
100-YEAR

```
************************************************************************
            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
         (Reference: 1986 SAN BERNARDINO CO. HYDROLOGY CRITERION)
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                          Analysis prepared by:

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 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB 3687                                                         *
* 100-YEAR STORM EVENT                                                 *
* PROPOSED CONDITION (NODES 100- 308)                                  *
 ************************************************************************

  FILE NAME: W:\3687\100P.DAT
  TIME/DATE OF STUDY: 13:53 11/09/2021
========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.3800

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0312 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   260.00
  ELEVATION DATA: UPSTREAM(FEET) =   1118.84  DOWNSTREAM(FEET) =   1115.68

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.791
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.101
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        1.20      0.74     0.100    52    6.79
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      5.43
  TOTAL AREA(ACRES) =      1.20   PEAK FLOW RATE(CFS) =      5.43

************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  31
------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

```
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1111.67  DOWNSTREAM(FEET) =  1111.47
  FLOW LENGTH(FEET) =    22.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  15.0 INCH PIPE IS  10.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.94
  ESTIMATED PIPE DIAMETER(INCH) =  15.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       5.43
  PIPE TRAVEL TIME(MIN.) =   0.06    Tc(MIN.) =    6.85
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =     282.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    102.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    6.85
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.073
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.70      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    0.70      SUBAREA RUNOFF(CFS) =    3.15
  EFFECTIVE AREA(ACRES) =      1.90   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        1.9       PEAK FLOW RATE(CFS) =       8.55

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1111.47  DOWNSTREAM(FEET) =  1109.29
  FLOW LENGTH(FEET) =   348.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  14.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.67
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       8.55
  PIPE TRAVEL TIME(MIN.) =   1.02    Tc(MIN.) =    7.88
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    103.00 =     630.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    103.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    7.88
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.666
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.55      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    0.55      SUBAREA RUNOFF(CFS) =    2.27
  EFFECTIVE AREA(ACRES) =      2.45   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        2.5       PEAK FLOW RATE(CFS) =      10.13

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1109.29  DOWNSTREAM(FEET) =  1108.28
  FLOW LENGTH(FEET) =   148.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  21.0 INCH PIPE IS  13.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.28
  ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      10.13
  PIPE TRAVEL TIME(MIN.) =   0.39    Tc(MIN.) =    8.27
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =     778.00 FEET.
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    104.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    8.27
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.532
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.25      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.25      SUBAREA RUNOFF(CFS) =    5.02
  EFFECTIVE AREA(ACRES) =      3.70   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        3.7       PEAK FLOW RATE(CFS) =      14.84

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    105.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1108.28  DOWNSTREAM(FEET) =  1105.97
  FLOW LENGTH(FEET) =   366.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  16.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.69
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      14.84
  PIPE TRAVEL TIME(MIN.) =   0.91    Tc(MIN.) =    9.18
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    105.00 =    1144.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    105.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    9.18
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.256
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        3.00      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    3.00      SUBAREA RUNOFF(CFS) =   11.29
  EFFECTIVE AREA(ACRES) =      6.70   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        6.7       PEAK FLOW RATE(CFS) =      25.22

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    106.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1105.97  DOWNSTREAM(FEET) =  1105.47
  FLOW LENGTH(FEET) =   149.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  21.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.02
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      25.22
  PIPE TRAVEL TIME(MIN.) =   0.41    Tc(MIN.) =    9.59
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    106.00 =    1293.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    106.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    9.59
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.146
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.35      0.74     0.100    52
```

```
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.35      SUBAREA RUNOFF(CFS) =    4.95
  EFFECTIVE AREA(ACRES) =      8.05   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        8.1       PEAK FLOW RATE(CFS) =      29.50

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    107.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1105.47  DOWNSTREAM(FEET) =  1104.98
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  25.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.10
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      29.50
  PIPE TRAVEL TIME(MIN.) =   0.41    Tc(MIN.) =   10.00
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    107.00 =    1443.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    107.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   10.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.043
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.35      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.35      SUBAREA RUNOFF(CFS) =    4.82
  EFFECTIVE AREA(ACRES) =      9.40   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        9.4       PEAK FLOW RATE(CFS) =      33.58

****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    108.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1104.98  DOWNSTREAM(FEET) =  1104.49
  FLOW LENGTH(FEET) =   149.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  25.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.39
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      33.58
  PIPE TRAVEL TIME(MIN.) =   0.39    Tc(MIN.) =   10.39
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    108.00 =    1592.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    108.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   10.39
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.952
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.95      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.95      SUBAREA RUNOFF(CFS) =    6.80
  EFFECTIVE AREA(ACRES) =     11.35   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       11.4       PEAK FLOW RATE(CFS) =      39.61

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    109.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

```
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1104.49  DOWNSTREAM(FEET) =  1103.95
  FLOW LENGTH(FEET) =   163.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  28.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.54
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      39.61
  PIPE TRAVEL TIME(MIN.) =   0.42    Tc(MIN.) =   10.81
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    109.00 =    1755.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    109.00 TO NODE    109.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   10.81
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.860
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.40      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.40      SUBAREA RUNOFF(CFS) =    4.77
  EFFECTIVE AREA(ACRES) =     12.75   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       12.8       PEAK FLOW RATE(CFS) =      43.44

****************************************************************************
  FLOW PROCESS FROM NODE    109.00 TO NODE    110.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1103.95  DOWNSTREAM(FEET) =  1103.38
  FLOW LENGTH(FEET) =   170.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  27.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.85
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      43.44
  PIPE TRAVEL TIME(MIN.) =   0.41    Tc(MIN.) =   11.22
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    110.00 =    1925.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    110.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   11.22
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.774
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.95      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.95      SUBAREA RUNOFF(CFS) =    6.49
  EFFECTIVE AREA(ACRES) =     14.70   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       14.7       PEAK FLOW RATE(CFS) =      48.94

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1103.38  DOWNSTREAM(FEET) =  1102.85
  FLOW LENGTH(FEET) =   162.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  31.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.86
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      48.94
  PIPE TRAVEL TIME(MIN.) =   0.39    Tc(MIN.) =   11.61
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    111.00 =    2087.00 FEET.
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    111.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   11.61
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.696
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.25      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.25      SUBAREA RUNOFF(CFS) =    4.07
  EFFECTIVE AREA(ACRES) =     15.95   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       15.9       PEAK FLOW RATE(CFS) =      52.00

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    112.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1102.85  DOWNSTREAM(FEET) =  1102.35
  FLOW LENGTH(FEET) =   152.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  42.0 INCH PIPE IS  29.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.12
  ESTIMATED PIPE DIAMETER(INCH) =  42.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      52.00
  PIPE TRAVEL TIME(MIN.) =   0.36    Tc(MIN.) =   11.97
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    112.00 =    2239.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    112.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   11.97
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.630
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.30      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.30      SUBAREA RUNOFF(CFS) =    4.16
  EFFECTIVE AREA(ACRES) =     17.25   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       17.2       PEAK FLOW RATE(CFS) =      55.20

****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    113.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1102.35  DOWNSTREAM(FEET) =  1101.85
  FLOW LENGTH(FEET) =   152.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  42.0 INCH PIPE IS  31.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.18
  ESTIMATED PIPE DIAMETER(INCH) =  42.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      55.20
  PIPE TRAVEL TIME(MIN.) =   0.35    Tc(MIN.) =   12.32
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    113.00 =    2391.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    113.00 TO NODE    113.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   12.32
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.567
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.95      0.74     0.100    52
```

```
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.95      SUBAREA RUNOFF(CFS) =    6.13
  EFFECTIVE AREA(ACRES) =     19.20   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       19.2       PEAK FLOW RATE(CFS) =      60.36

****************************************************************************
  FLOW PROCESS FROM NODE    113.00 TO NODE    114.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1101.85  DOWNSTREAM(FEET) =  1101.35
  FLOW LENGTH(FEET) =   152.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  42.0 INCH PIPE IS  34.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.22
  ESTIMATED PIPE DIAMETER(INCH) =  42.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      60.36
  PIPE TRAVEL TIME(MIN.) =   0.35    Tc(MIN.) =   12.67
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    114.00 =    2543.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    114.00 TO NODE    114.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   12.67
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.508
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        2.85      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    2.85      SUBAREA RUNOFF(CFS) =    8.81
  EFFECTIVE AREA(ACRES) =     22.05   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       22.1       PEAK FLOW RATE(CFS) =      68.14

****************************************************************************
  FLOW PROCESS FROM NODE    114.00 TO NODE    214.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1101.35  DOWNSTREAM(FEET) =  1100.27
  FLOW LENGTH(FEET) =   326.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  45.0 INCH PIPE IS  34.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.56
  ESTIMATED PIPE DIAMETER(INCH) =  45.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      68.14
  PIPE TRAVEL TIME(MIN.) =   0.72    Tc(MIN.) =   13.39
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    214.00 =    2869.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    214.00 TO NODE    214.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   13.39
  RAINFALL INTENSITY(INCH/HR) =   3.39
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =      22.05
  TOTAL STREAM AREA(ACRES) =      22.05
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      68.14

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
```

```
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   300.00
  ELEVATION DATA: UPSTREAM(FEET) =   1117.84  DOWNSTREAM(FEET) =   1113.23

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.861
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.069
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        3.35      0.74     0.100    52    6.86
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =     15.06
  TOTAL AREA(ACRES) =      3.35   PEAK FLOW RATE(CFS) =     15.06

****************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1109.74  DOWNSTREAM(FEET) =  1109.12
  FLOW LENGTH(FEET) =   168.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  17.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.50
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      15.06
  PIPE TRAVEL TIME(MIN.) =   0.51    Tc(MIN.) =    7.37
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =     468.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    7.37
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.856
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        2.25      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    2.25      SUBAREA RUNOFF(CFS) =    9.68
  EFFECTIVE AREA(ACRES) =      5.60   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        5.6       PEAK FLOW RATE(CFS) =      24.10

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    203.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1109.12  DOWNSTREAM(FEET) =  1108.53
  FLOW LENGTH(FEET) =   157.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  22.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.13
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      24.10
  PIPE TRAVEL TIME(MIN.) =   0.43    Tc(MIN.) =    7.80
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    203.00 =     625.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    203.00 TO NODE    203.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    7.80
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.695
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.45      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.45      SUBAREA RUNOFF(CFS) =    6.03
```

```
  EFFECTIVE AREA(ACRES) =      7.05   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        7.1       PEAK FLOW RATE(CFS) =      29.32

****************************************************************************
  FLOW PROCESS FROM NODE    203.00 TO NODE    204.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1108.53  DOWNSTREAM(FEET) =  1107.93
  FLOW LENGTH(FEET) =   159.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  23.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.49
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      29.32
  PIPE TRAVEL TIME(MIN.) =   0.41    Tc(MIN.) =    8.21
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    204.00 =     784.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    204.00 TO NODE    204.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    8.21
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.553
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                A        1.45      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.45      SUBAREA RUNOFF(CFS) =    5.84
  EFFECTIVE AREA(ACRES) =      8.50   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        8.5       PEAK FLOW RATE(CFS) =      34.26

****************************************************************************
  FLOW PROCESS FROM NODE    204.00 TO NODE    205.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1107.93  DOWNSTREAM(FEET) =  1107.35
  FLOW LENGTH(FEET) =   157.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  24.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.73
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      34.26
  PIPE TRAVEL TIME(MIN.) =   0.39    Tc(MIN.) =    8.59
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    205.00 =     941.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    205.00 TO NODE    205.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    8.59
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.428
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                A        2.25      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    2.25      SUBAREA RUNOFF(CFS) =    8.82
  EFFECTIVE AREA(ACRES) =     10.75   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       10.8       PEAK FLOW RATE(CFS) =      42.13

****************************************************************************
  FLOW PROCESS FROM NODE    205.00 TO NODE    206.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1107.35  DOWNSTREAM(FEET) =  1106.76
```

```
  FLOW LENGTH(FEET) =   157.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  28.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.96
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      42.13
  PIPE TRAVEL TIME(MIN.) =   0.38    Tc(MIN.) =    8.97
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    206.00 =    1098.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    206.00 TO NODE    206.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    8.97
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.316
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.45      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.45      SUBAREA RUNOFF(CFS) =    5.54
  EFFECTIVE AREA(ACRES) =     12.20   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       12.2       PEAK FLOW RATE(CFS) =      46.58

****************************************************************************
  FLOW PROCESS FROM NODE    206.00 TO NODE    207.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1106.76  DOWNSTREAM(FEET) =  1106.17
  FLOW LENGTH(FEET) =   157.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  28.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.26
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      46.58
  PIPE TRAVEL TIME(MIN.) =   0.36    Tc(MIN.) =    9.33
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    207.00 =    1255.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    207.00 TO NODE    207.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    9.33
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.215
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        2.25      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    2.25      SUBAREA RUNOFF(CFS) =    8.39
  EFFECTIVE AREA(ACRES) =     14.45   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       14.4       PEAK FLOW RATE(CFS) =      53.86

****************************************************************************
  FLOW PROCESS FROM NODE    207.00 TO NODE    208.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1106.17  DOWNSTREAM(FEET) =  1105.58
  FLOW LENGTH(FEET) =   157.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  42.0 INCH PIPE IS  29.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.57
  ESTIMATED PIPE DIAMETER(INCH) =  42.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      53.86
  PIPE TRAVEL TIME(MIN.) =   0.35    Tc(MIN.) =    9.68
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    208.00 =    1412.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    208.00 TO NODE    208.00 IS CODE =  81
----------------------------------------------------------------------------
```

```
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
  MAINLINE Tc(MIN.) =    9.68
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.124
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.45      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.45      SUBAREA RUNOFF(CFS) =    5.29
  EFFECTIVE AREA(ACRES) =     15.90   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       15.9       PEAK FLOW RATE(CFS) =      57.96

********************************************************************************
  FLOW PROCESS FROM NODE    208.00 TO NODE    209.00 IS CODE =  31
--------------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1105.58  DOWNSTREAM(FEET) =  1104.99
  FLOW LENGTH(FEET) =   157.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  42.0 INCH PIPE IS  30.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.65
  ESTIMATED PIPE DIAMETER(INCH) =  42.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      57.96
  PIPE TRAVEL TIME(MIN.) =   0.34    Tc(MIN.) =   10.02
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    209.00 =    1569.00 FEET.

********************************************************************************
  FLOW PROCESS FROM NODE    209.00 TO NODE    209.00 IS CODE =  81
--------------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
  MAINLINE Tc(MIN.) =   10.02
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.039
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.45      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.45      SUBAREA RUNOFF(CFS) =    5.17
  EFFECTIVE AREA(ACRES) =     17.35   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       17.4       PEAK FLOW RATE(CFS) =      61.91

********************************************************************************
  FLOW PROCESS FROM NODE    209.00 TO NODE    210.00 IS CODE =  31
--------------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1104.99  DOWNSTREAM(FEET) =  1104.41
  FLOW LENGTH(FEET) =   157.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  42.0 INCH PIPE IS  33.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.65
  ESTIMATED PIPE DIAMETER(INCH) =  42.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      61.91
  PIPE TRAVEL TIME(MIN.) =   0.34    Tc(MIN.) =   10.36
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    210.00 =    1726.00 FEET.

********************************************************************************
  FLOW PROCESS FROM NODE    210.00 TO NODE    210.00 IS CODE =  81
--------------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
  MAINLINE Tc(MIN.) =   10.36
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.959
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        3.70      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    3.70      SUBAREA RUNOFF(CFS) =   12.94
```

```
  EFFECTIVE AREA(ACRES) =     21.05   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       21.1       PEAK FLOW RATE(CFS) =      73.59

****************************************************************************
  FLOW PROCESS FROM NODE    210.00 TO NODE    211.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1104.41  DOWNSTREAM(FEET) =  1102.31
  FLOW LENGTH(FEET) =   563.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  45.0 INCH PIPE IS  34.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.03
  ESTIMATED PIPE DIAMETER(INCH) =  45.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      73.59
  PIPE TRAVEL TIME(MIN.) =   1.17    Tc(MIN.) =   11.53
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    211.00 =    2289.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    211.00 TO NODE    211.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   11.53
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.713
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.85      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    0.85      SUBAREA RUNOFF(CFS) =    2.78
  EFFECTIVE AREA(ACRES) =     21.90   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       21.9       PEAK FLOW RATE(CFS) =      73.59
  NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
  FLOW PROCESS FROM NODE    211.00 TO NODE    212.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1102.31  DOWNSTREAM(FEET) =  1101.86
  FLOW LENGTH(FEET) =   122.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  45.0 INCH PIPE IS  35.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.99
  ESTIMATED PIPE DIAMETER(INCH) =  45.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      73.59
  PIPE TRAVEL TIME(MIN.) =   0.25    Tc(MIN.) =   11.78
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    212.00 =    2411.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    212.00 TO NODE    212.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   11.78
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.665
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.70      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    0.70      SUBAREA RUNOFF(CFS) =    2.26
  EFFECTIVE AREA(ACRES) =     22.60   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       22.6       PEAK FLOW RATE(CFS) =      73.59
  NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
  FLOW PROCESS FROM NODE    212.00 TO NODE    213.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
```

```
==========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1101.86  DOWNSTREAM(FEET) =  1101.13
  FLOW LENGTH(FEET) =   196.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  45.0 INCH PIPE IS  34.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.03
  ESTIMATED PIPE DIAMETER(INCH) =  45.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      73.59
  PIPE TRAVEL TIME(MIN.) =   0.41    Tc(MIN.) =   12.19
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    213.00 =    2607.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    213.00 TO NODE    213.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==========================================================================
  MAINLINE Tc(MIN.) =   12.19
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.591
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.35      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.35      SUBAREA RUNOFF(CFS) =    4.27
  EFFECTIVE AREA(ACRES) =     23.95   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       24.0       PEAK FLOW RATE(CFS) =      75.80

****************************************************************************
  FLOW PROCESS FROM NODE    213.00 TO NODE    214.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1101.13  DOWNSTREAM(FEET) =  1100.27
  FLOW LENGTH(FEET) =   229.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  45.0 INCH PIPE IS  35.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.08
  ESTIMATED PIPE DIAMETER(INCH) =  45.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      75.80
  PIPE TRAVEL TIME(MIN.) =   0.47    Tc(MIN.) =   12.66
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    214.00 =    2836.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    214.00 TO NODE    214.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
==========================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   12.66
  RAINFALL INTENSITY(INCH/HR) =   3.51
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =      23.95
  TOTAL STREAM AREA(ACRES) =      23.95
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      75.80

  ** CONFLUENCE DATA **
   STREAM       Q      Tc    Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       68.14   13.39    3.393  0.74( 0.07) 0.10      22.1     100.00
      2       75.80   12.66    3.510  0.74( 0.07) 0.10      24.0     200.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc    Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1      142.47   12.66    3.510  0.74( 0.07) 0.10      44.8     200.00
      2      141.37   13.39    3.393  0.74( 0.07) 0.10      46.0     100.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =     142.47    Tc(MIN.) =    12.66
```

```
  EFFECTIVE AREA(ACRES) =      44.80   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       46.0
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    214.00 =    2869.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    214.00 TO NODE    306.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1100.27  DOWNSTREAM(FEET) =  1099.79
  FLOW LENGTH(FEET) =   146.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  60.0 INCH PIPE IS  44.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.10
  ESTIMATED PIPE DIAMETER(INCH) =  60.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     142.47
  PIPE TRAVEL TIME(MIN.) =   0.27    Tc(MIN.) =   12.93
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    306.00 =    3015.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    306.00 TO NODE    306.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   12.93
  RAINFALL INTENSITY(INCH/HR) =   3.47
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =      44.80
  TOTAL STREAM AREA(ACRES) =      46.00
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     142.47

****************************************************************************
  FLOW PROCESS FROM NODE    300.00 TO NODE    301.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   213.00
  ELEVATION DATA: UPSTREAM(FEET) =   1121.69  DOWNSTREAM(FEET) =   1114.37

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.093
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  6.061
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
        LAND USE           GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.70      0.74     0.100    52    5.09
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      3.77
  TOTAL AREA(ACRES) =      0.70   PEAK FLOW RATE(CFS) =      3.77

****************************************************************************
  FLOW PROCESS FROM NODE    301.00 TO NODE    302.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1111.37  DOWNSTREAM(FEET) =  1107.96
  FLOW LENGTH(FEET) =   370.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  15.0 INCH PIPE IS   8.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.53
  ESTIMATED PIPE DIAMETER(INCH) =  15.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       3.77
  PIPE TRAVEL TIME(MIN.) =   1.11    Tc(MIN.) =    6.21
  LONGEST FLOWPATH FROM NODE    300.00 TO NODE    302.00 =     583.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    302.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
```

```
 MAINLINE Tc(MIN.) =    6.21
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.383
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 A        2.05      0.74     0.100    52
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    2.05      SUBAREA RUNOFF(CFS) =    9.79
 EFFECTIVE AREA(ACRES) =      2.75   AREA-AVERAGED Fm(INCH/HR) =  0.07
 AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        2.8       PEAK FLOW RATE(CFS) =      13.14

****************************************************************************
 FLOW PROCESS FROM NODE    302.00 TO NODE    303.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =  1107.96  DOWNSTREAM(FEET) =  1106.72
 FLOW LENGTH(FEET) =   134.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  21.0 INCH PIPE IS  14.4 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.47
 ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      13.14
 PIPE TRAVEL TIME(MIN.) =   0.30    Tc(MIN.) =    6.51
 LONGEST FLOWPATH FROM NODE    300.00 TO NODE    303.00 =     717.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    303.00 TO NODE    303.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    6.51
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.233
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 A        1.30      0.74     0.100    52
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.30      SUBAREA RUNOFF(CFS) =    6.04
 EFFECTIVE AREA(ACRES) =      4.05   AREA-AVERAGED Fm(INCH/HR) =  0.07
 AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        4.1       PEAK FLOW RATE(CFS) =      18.80

****************************************************************************
 FLOW PROCESS FROM NODE    303.00 TO NODE    304.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =  1106.72  DOWNSTREAM(FEET) =  1105.48
 FLOW LENGTH(FEET) =   134.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  24.0 INCH PIPE IS  16.5 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   8.16
 ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      18.80
 PIPE TRAVEL TIME(MIN.) =   0.27    Tc(MIN.) =    6.78
 LONGEST FLOWPATH FROM NODE    300.00 TO NODE    304.00 =     851.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    6.78
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.105
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 A        1.70      0.74     0.100    52
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.70      SUBAREA RUNOFF(CFS) =    7.70
 EFFECTIVE AREA(ACRES) =      5.75   AREA-AVERAGED Fm(INCH/HR) =  0.07
 AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
```

TOTAL AREA(ACRES) = 5.8 PEAK FLOW RATE(CFS) = 26.03

```
****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    305.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1105.48  DOWNSTREAM(FEET) =  1101.00
  FLOW LENGTH(FEET) =   483.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  18.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.86
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      26.03
  PIPE TRAVEL TIME(MIN.) =   0.91    Tc(MIN.) =    7.69
  LONGEST FLOWPATH FROM NODE    300.00 TO NODE    305.00 =    1334.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    305.00 TO NODE    305.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    7.69
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.734
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.70      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    0.70      SUBAREA RUNOFF(CFS) =     2.94
  EFFECTIVE AREA(ACRES) =      6.45   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        6.4       PEAK FLOW RATE(CFS) =      27.05

****************************************************************************
  FLOW PROCESS FROM NODE    305.00 TO NODE    306.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1101.00  DOWNSTREAM(FEET) =  1099.79
  FLOW LENGTH(FEET) =   103.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  17.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.82
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      27.05
  PIPE TRAVEL TIME(MIN.) =   0.17    Tc(MIN.) =    7.86
  LONGEST FLOWPATH FROM NODE    300.00 TO NODE    306.00 =    1437.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    306.00 TO NODE    306.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.86
  RAINFALL INTENSITY(INCH/HR) =   4.67
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       6.45
  TOTAL STREAM AREA(ACRES) =       6.45
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      27.05

  ** CONFLUENCE DATA **
   STREAM       Q      Tc    Intensity   Fp(Fm)     Ap      Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1      142.47   12.93    3.466  0.74( 0.07) 0.10      44.8     200.00
      1      141.37   13.66    3.353  0.74( 0.07) 0.10      46.0     100.00
      2       27.05    7.86    4.670  0.74( 0.07) 0.10       6.4     300.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.
```

```
  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap      Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1      144.49    7.86    4.670  0.74( 0.07) 0.10      33.7     300.00
      2      162.43   12.93    3.466  0.74( 0.07) 0.10      51.2     200.00
      3      160.67   13.66    3.353  0.74( 0.07) 0.10      52.5     100.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =     162.43    Tc(MIN.) =    12.93
  EFFECTIVE AREA(ACRES) =      51.25   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       52.5
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    306.00 =    3015.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    306.00 TO NODE    306.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   12.93
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.466
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.95      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.95      SUBAREA RUNOFF(CFS) =    5.95
  EFFECTIVE AREA(ACRES) =     53.20   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       54.4       PEAK FLOW RATE(CFS) =     162.43
  NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
  FLOW PROCESS FROM NODE    306.00 TO NODE    307.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1099.79  DOWNSTREAM(FEET) =  1098.40
  FLOW LENGTH(FEET) =   420.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  63.0 INCH PIPE IS  46.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.43
  ESTIMATED PIPE DIAMETER(INCH) =  63.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     162.43
  PIPE TRAVEL TIME(MIN.) =   0.74    Tc(MIN.) =   13.67
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    307.00 =    3435.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    307.00 TO NODE    307.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   13.67
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.352
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        3.50      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    3.50      SUBAREA RUNOFF(CFS) =   10.32
  EFFECTIVE AREA(ACRES) =     56.70   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =       57.9       PEAK FLOW RATE(CFS) =     167.24

****************************************************************************
  FLOW PROCESS FROM NODE    307.00 TO NODE    308.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1098.40  DOWNSTREAM(FEET) =  1097.96
  FLOW LENGTH(FEET) =   133.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  63.0 INCH PIPE IS  48.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.46
  ESTIMATED PIPE DIAMETER(INCH) =  63.00    NUMBER OF PIPES =   1
```

```
  PIPE-FLOW(CFS) =     167.24
  PIPE TRAVEL TIME(MIN.) =   0.23    Tc(MIN.) =   13.91
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    308.00 =    3568.00 FEET.
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       57.9  TC(MIN.) =     13.91
  EFFECTIVE AREA(ACRES) =     56.70  AREA-AVERAGED Fm(INCH/HR)=  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap = 0.100
  PEAK FLOW RATE(CFS)   =     167.24

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap      Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
      1      153.04    8.87    4.345  0.74( 0.07) 0.10      39.1     300.00
      2      167.24   13.91    3.318  0.74( 0.07) 0.10      56.7     200.00
      3      165.41   14.64    3.217  0.74( 0.07) 0.10      57.9     100.00
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

```
______________________________________________________________________________
******************************************************************************
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                           Analysis prepared by:

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                            LA MIRADA, CA 90638
                                714-521-4811

 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB 3687                                                          *
* 100-YEAR STORM EVENT                                                  *
* PROPOSED CONDITION (NODES 400-504)                                    *
 ************************************************************************

  FILE NAME: W:\3687\400P.DAT
  TIME/DATE OF STUDY: 14:08 11/09/2021
==============================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==============================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.3800

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0312 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

******************************************************************************
  FLOW PROCESS FROM NODE    400.00 TO NODE    401.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   387.00
  ELEVATION DATA: UPSTREAM(FEET) =   1109.59  DOWNSTREAM(FEET) =   1101.20

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    7.092
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.970
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        2.40      0.74     0.100    52    7.09
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =     10.57
  TOTAL AREA(ACRES) =      2.40   PEAK FLOW RATE(CFS) =     10.57

******************************************************************************
  FLOW PROCESS FROM NODE    401.00 TO NODE    503.00 IS CODE =  31
------------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

```
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1097.50  DOWNSTREAM(FEET) =  1089.50
  FLOW LENGTH(FEET) =   155.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  15.0 INCH PIPE IS   9.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  13.59
  ESTIMATED PIPE DIAMETER(INCH) =  15.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      10.57
  PIPE TRAVEL TIME(MIN.) =   0.19    Tc(MIN.) =    7.28
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    503.00 =     542.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    503.00 TO NODE    503.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.28
  RAINFALL INTENSITY(INCH/HR) =   4.89
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       2.40
  TOTAL STREAM AREA(ACRES) =       2.40
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      10.57

****************************************************************************
  FLOW PROCESS FROM NODE    500.00 TO NODE    501.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   668.00
  ELEVATION DATA: UPSTREAM(FEET) =   1111.72  DOWNSTREAM(FEET) =   1107.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   11.040
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.811
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.75      0.74     0.100    52   11.04
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      2.52
  TOTAL AREA(ACRES) =      0.75   PEAK FLOW RATE(CFS) =      2.52

****************************************************************************
  FLOW PROCESS FROM NODE    501.00 TO NODE    502.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1107.00  DOWNSTREAM ELEVATION(FEET) = 1098.86
  STREET LENGTH(FEET) =   668.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 22.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  10.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  2
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       4.63
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.33
    HALFSTREET FLOOD WIDTH(FEET) =    8.76
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.42
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.81
  STREET FLOW TRAVEL TIME(MIN.) =   4.60   Tc(MIN.) =   15.64
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.092
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.55      0.74     0.100    52
```

```
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.55      SUBAREA RUNOFF(CFS) =    4.21
  EFFECTIVE AREA(ACRES) =      2.30    AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        2.3        PEAK FLOW RATE(CFS) =       6.25

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.36   HALFSTREET FLOOD WIDTH(FEET) =  10.09
  FLOW VELOCITY(FEET/SEC.) =  2.59   DEPTH*VELOCITY(FT*FT/SEC.) =   0.93
  LONGEST FLOWPATH FROM NODE    500.00 TO NODE    502.00 =    1336.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    502.00 TO NODE    503.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1094.86  DOWNSTREAM(FEET) =  1089.50
  FLOW LENGTH(FEET) =    40.00   MANNING'S N =  0.012
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 12.000
  DEPTH OF FLOW IN  12.0 INCH PIPE IS   5.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  17.11
  ESTIMATED PIPE DIAMETER(INCH) =  12.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       6.25
  PIPE TRAVEL TIME(MIN.) =   0.04    Tc(MIN.) =   15.67
  LONGEST FLOWPATH FROM NODE    500.00 TO NODE    503.00 =    1376.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    503.00 TO NODE    503.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   15.67
  RAINFALL INTENSITY(INCH/HR) =   3.09
  AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =       2.30
  TOTAL STREAM AREA(ACRES) =       2.30
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       6.25

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       10.57    7.28    4.891  0.74( 0.07) 0.10       2.4     400.00
      2        6.25   15.67    3.088  0.74( 0.07) 0.10       2.3     500.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       15.21    7.28    4.891  0.74( 0.07) 0.10       3.5     400.00
      2       12.86   15.67    3.088  0.74( 0.07) 0.10       4.7     500.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      15.21    Tc(MIN.) =     7.28
  EFFECTIVE AREA(ACRES) =       3.47   AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        4.7
  LONGEST FLOWPATH FROM NODE    500.00 TO NODE    503.00 =    1376.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    503.00 TO NODE    504.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1089.50  DOWNSTREAM(FEET) =  1085.50
  FLOW LENGTH(FEET) =    77.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  15.0 INCH PIPE IS  12.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  14.45
```

```
                                                                    400P
  ESTIMATED PIPE DIAMETER(INCH) =  15.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      15.21
  PIPE TRAVEL TIME(MIN.) =   0.09    Tc(MIN.) =    7.37
  LONGEST FLOWPATH FROM NODE    500.00 TO NODE    504.00 =    1453.00 FEET.
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        4.7  TC(MIN.) =      7.37
  EFFECTIVE AREA(ACRES) =      3.47  AREA-AVERAGED Fm(INCH/HR)=  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap = 0.100
  PEAK FLOW RATE(CFS)   =      15.21

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1       15.21    7.37    4.856  0.74( 0.07) 0.10       3.5     400.00
      2       12.86   15.77    3.077  0.74( 0.07) 0.10       4.7     500.00
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

```
************************************************************************
            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
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                          Analysis prepared by:

                        THIENES ENGINEERING, INC.
                           14349 FIRESTONE BLVD
                           LA MIRADA, CA 90638
                               714-521-4811

 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB 3687                                                         *
* 100-YEAR STORM EVENT                                                 *
* PROPOSED CONDITION (NODES 600-603)                                   *
 ************************************************************************

  FILE NAME: W:\3687\600P.DAT
  TIME/DATE OF STUDY: 14:19 11/09/2021
========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.3800

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0312 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

************************************************************************
  FLOW PROCESS FROM NODE    600.00 TO NODE    601.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   705.00
  ELEVATION DATA: UPSTREAM(FEET) =   1118.54  DOWNSTREAM(FEET) =   1114.89

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   12.004
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.624
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        1.65      0.74     0.100    52   12.00
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      5.27
  TOTAL AREA(ACRES) =      1.65   PEAK FLOW RATE(CFS) =      5.27

************************************************************************
  FLOW PROCESS FROM NODE    601.00 TO NODE    602.00 IS CODE =  61
------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

```
  >>>>>(STANDARD CURB SECTION USED)<<<<<
==========================================================================
  UPSTREAM ELEVATION(FEET) = 1114.89  DOWNSTREAM ELEVATION(FEET) = 1111.76
  STREET LENGTH(FEET) =   705.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 22.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  10.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  2
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       7.55
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.43
    HALFSTREET FLOOD WIDTH(FEET) =   13.68
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    1.83
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.79
  STREET FLOW TRAVEL TIME(MIN.) =   6.41   Tc(MIN.) =   18.42
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.803
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.85      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    1.85      SUBAREA RUNOFF(CFS) =    4.54
  EFFECTIVE AREA(ACRES) =      3.50    AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        3.5        PEAK FLOW RATE(CFS) =       8.60

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.45   HALFSTREET FLOOD WIDTH(FEET) =  14.46
  FLOW VELOCITY(FEET/SEC.) =  1.88   DEPTH*VELOCITY(FT*FT/SEC.) =   0.84
  LONGEST FLOWPATH FROM NODE    600.00 TO NODE    602.00 =    1410.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    602.00 TO NODE    603.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
==========================================================================
  UPSTREAM ELEVATION(FEET) = 1111.76  DOWNSTREAM ELEVATION(FEET) = 1108.22
  STREET LENGTH(FEET) =   705.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 22.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  10.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  2
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      11.36
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.47
    HALFSTREET FLOOD WIDTH(FEET) =   15.79
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.12
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.00
  STREET FLOW TRAVEL TIME(MIN.) =   5.55   Tc(MIN.) =   23.97
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.393
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        2.65      0.74     0.100    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    2.65      SUBAREA RUNOFF(CFS) =    5.53
  EFFECTIVE AREA(ACRES) =      6.15    AREA-AVERAGED Fm(INCH/HR) =  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        6.2        PEAK FLOW RATE(CFS) =      12.84

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.49   HALFSTREET FLOOD WIDTH(FEET) =  16.65
  FLOW VELOCITY(FEET/SEC.) =  2.17   DEPTH*VELOCITY(FT*FT/SEC.) =   1.06
  LONGEST FLOWPATH FROM NODE    600.00 TO NODE    603.00 =    2115.00 FEET.
```

600P

```
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        6.2  TC(MIN.) =     23.97
  EFFECTIVE AREA(ACRES) =      6.15  AREA-AVERAGED Fm(INCH/HR)=  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap = 0.100
  PEAK FLOW RATE(CFS)   =      12.84
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```

APPENDIX C

DETENTION ANALYSIS

JOB #3687 - 8996 ETIWANDA AVE, RANCHO CUCAMONGA
DETENTION IN SOUTH TRUCK YARD

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	∑ Volume (c.f.)	∑ Volume (ac-ft)	Q Discharge (cfs)
1111.17	0.00	0				
			617	617	0.01	47.4
1111.40	0.23	5361				
			2475	3091	0.07	47.9
1111.60	0.43	19388				
			6457	9548	0.22	48.3
1111.80	0.63	45182				
			12324	21872	0.50	48.8
1112.00	0.83	78055				
			18429	40302	0.93	49.3
1112.20	1.03	106239				
			26167	66469	1.53	49.7
1112.40	1.23	155434				

```
******************************************************************************
                    SMALL AREA UNIT HYDROGRAPH MODEL
==============================================================================
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                           Analysis prepared by:

                         THIENES ENGINEERING, INC.
                            14349 FIRESTONE BLVD
                            LA MIRADA, CA 90638
                                714-521-4811

******************************************************************************
------------------------------------------------------------------------------

 Problem Descriptions:
  TEI JOB 3687
  BIG BUILDING - SOUTH TRUCK YARD

------------------------------------------------------------------------------


    RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90
    TOTAL CATCHMENT AREA(ACRES) =   22.10
    SOIL-LOSS RATE, Fm,(INCH/HR) =  0.074
    LOW LOSS FRACTION = 0.095
    TIME OF CONCENTRATION(MIN.) = 13.40
    SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA
    USER SPECIFIED RAINFALL VALUES ARE USED
    RETURN FREQUENCY(YEARS) = 100
       5-MINUTE POINT RAINFALL VALUE(INCHES) =  0.51
      30-MINUTE POINT RAINFALL VALUE(INCHES) =  1.05
       1-HOUR   POINT RAINFALL VALUE(INCHES) =  1.40
       3-HOUR   POINT RAINFALL VALUE(INCHES) =  2.50
       6-HOUR   POINT RAINFALL VALUE(INCHES) =  3.75
      24-HOUR   POINT RAINFALL VALUE(INCHES) =  8.20

------------------------------------------------------------------------------

    TOTAL CATCHMENT   RUNOFF  VOLUME(ACRE-FEET) =    12.33
    TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) =     2.78

******************************************************************************
  TIME     VOLUME       Q    0.       17.5      35.0      52.5      70.0
 (HOURS)    (AF)      (CFS)
------------------------------------------------------------------------------
  0.14      0.0206      3.47  .Q        .         .         .         .
  0.37      0.0848      3.48  .Q        .         .         .         .
  0.59      0.1494      3.51  . Q       .         .         .         .
  0.81      0.2144      3.53  . Q       .         .         .         .
  1.04      0.2798      3.56  . Q       .         .         .         .
  1.26      0.3456      3.57  . Q       .         .         .         .
  1.48      0.4118      3.61  . Q       .         .         .         .
  1.71      0.4785      3.62  . Q       .         .         .         .
  1.93      0.5457      3.65  . Q       .         .         .         .
  2.15      0.6133      3.67  . Q       .         .         .         .
  2.38      0.6813      3.71  . Q       .         .         .         .
  2.60      0.7499      3.72  . Q       .         .         .         .
  2.82      0.8189      3.76  . Q       .         .         .         .
  3.05      0.8885      3.78  . Q       .         .         .         .
  3.27      0.9586      3.82  . Q       .         .         .         .
  3.49      1.0291      3.83  . Q       .         .         .         .
  3.72      1.1003      3.87  . Q       .         .         .         .
  3.94      1.1720      3.89  . Q       .         .         .         .
  4.16      1.2443      3.94  . Q       .         .         .         .
  4.39      1.3171      3.96  . Q       .         .         .         .
  4.61      1.3906      4.00  . Q       .         .         .         .
  4.83      1.4646      4.02  . Q       .         .         .         .
  5.06      1.5394      4.07  . Q       .         .         .         .
  5.28      1.6147      4.10  . Q       .         .         .         .
  5.50      1.6908      4.14  . Q       .         .         .         .
  5.73      1.7675      4.17  . Q       .         .         .         .
  5.95      1.8450      4.22  . Q       .         .         .         .
  6.17      1.9232      4.25  . Q       .         .         .         .
  6.40      2.0022      4.31  . Q       .         .         .         .
  6.62      2.0819      4.34  . Q       .         .         .         .
  6.84      2.1625      4.40  . Q       .         .         .         .
  7.07      2.2439      4.43  . Q       .         .         .         .
  7.29      2.3262      4.49  . Q       .         .         .         .
  7.51      2.4094      4.52  . Q       .         .         .         .
  7.74      2.4935      4.59  . Q       .         .         .         .
  7.96      2.5786      4.63  . Q       .         .         .         .
```

```
  8.18      2.6647      4.70  . Q       .         .         .         .
  8.41      2.7519      4.74  . Q       .         .         .         .
  8.63      2.8402      4.82  . Q       .         .         .         .
  8.85      2.9296      4.87  . Q       .         .         .         .
  9.08      3.0202      4.95  . Q       .         .         .         .
  9.30      3.1121      5.00  . Q       .         .         .         .
  9.52      3.2052      5.10  . Q       .         .         .         .
  9.75      3.2998      5.15  . Q       .         .         .         .
  9.97      3.3957      5.25  .  Q      .         .         .         .
 10.19      3.4932      5.31  .  Q      .         .         .         .
 10.42      3.5923      5.43  .  Q      .         .         .         .
 10.64      3.6931      5.49  .  Q      .         .         .         .
 10.86      3.7957      5.62  .  Q      .         .         .         .
 11.09      3.9001      5.69  .  Q      .         .         .         .
 11.31      4.0066      5.84  .  Q      .         .         .         .
 11.53      4.1152      5.92  .  Q      .         .         .         .
 11.76      4.2261      6.10  .  Q      .         .         .         .
 11.98      4.3395      6.19  .  Q      .         .         .         .
 12.20      4.4574      6.59  .  Q      .         .         .         .
 12.43      4.5803      6.73  .  Q      .         .         .         .
 12.65      4.7065      6.96  .  Q      .         .         .         .
 12.87      4.8361      7.08  .   Q     .         .         .         .
 13.10      4.9694      7.36  .   Q     .         .         .         .
 13.32      5.1068      7.52  .   Q     .         .         .         .
 13.54      5.2487      7.86  .   Q     .         .         .         .
 13.77      5.3956      8.06  .   Q     .         .         .         .
 13.99      5.5485      8.50  .   Q     .         .         .         .
 14.21      5.7043      8.39  .   Q     .         .         .         .
 14.44      5.8604      8.52  .   Q     .         .         .         .
 14.66      6.0211      8.90  .    Q    .         .         .         .
 14.88      6.1939      9.83  .    Q    .         .         .         .
 15.11      6.3809     10.43  .    Q    .         .         .         .
 15.33      6.5886     12.08  .     Q   .         .         .         .
 15.55      6.8102     11.93  .     Q   .         .         .         .
 15.78      7.0565     14.76  .       Q .         .         .         .
 16.00      7.3801     20.31  .         .Q        .         .         .
 16.22      8.1776     66.11  .          .        .         .      Q  .
 16.45      8.8995     12.12  .     Q    .         .         .         .
 16.67      9.1144     11.16  .     Q    .         .         .         .
 16.89      9.3035      9.33  .    Q     .         .         .         .
 17.12      9.4651      8.19  .   Q      .         .         .         .
 17.34      9.6170      8.27  .   Q      .         .         .         .
 17.56      9.7643      7.68  .   Q      .         .         .         .
 17.79      9.9018      7.22  .   Q      .         .         .         .
 18.01     10.0315      6.84  .  Q       .         .         .         .
 18.23     10.1526      6.29  .  Q       .         .         .         .
 18.46     10.2661      6.01  .  Q       .         .         .         .
 18.68     10.3748      5.77  .  Q       .         .         .         .
 18.90     10.4793      5.56  .  Q       .         .         .         .
 19.13     10.5801      5.37  .  Q       .         .         .         .
 19.35     10.6776      5.20  . Q        .         .         .         .
 19.57     10.7722      5.05  . Q        .         .         .         .
 19.80     10.8640      4.91  . Q        .         .         .         .
 20.02     10.9535      4.78  . Q        .         .         .         .
 20.24     11.0407      4.67  . Q        .         .         .         .
 20.47     11.1258      4.56  . Q        .         .         .         .
 20.69     11.2090      4.46  . Q        .         .         .         .
 20.91     11.2904      4.37  . Q        .         .         .         .
 21.14     11.3702      4.28  . Q        .         .         .         .
 21.36     11.4484      4.20  . Q        .         .         .         .
 21.58     11.5251      4.12  . Q        .         .         .         .
 21.81     11.6005      4.05  . Q        .         .         .         .
 22.03     11.6746      3.98  . Q        .         .         .         .
 22.25     11.7475      3.92  . Q        .         .         .         .
 22.48     11.8192      3.85  . Q        .         .         .         .
 22.70     11.8898      3.80  . Q        .         .         .         .
 22.92     11.9593      3.74  . Q        .         .         .         .
 23.15     12.0279      3.69  . Q        .         .         .         .
 23.37     12.0955      3.64  . Q        .         .         .         .
 23.59     12.1622      3.59  . Q        .         .         .         .
 23.82     12.2280      3.54  . Q        .         .         .         .
 24.04     12.2930      3.50  .Q         .         .         .         .
 24.26     12.3253      0.00  Q          .         .         .         .
 ------------------------------------------------------------------------------
-------------------------------------------------------------------------------
    TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:
    (Note: 100% of Peak Flow Rate estimate assumed to have
    an instantaneous time duration)

    Percentile of Estimated                Duration
        Peak Flow Rate                     (minutes)
    ======================                 =========
               0%                           1447.2
              10%                            348.4
```

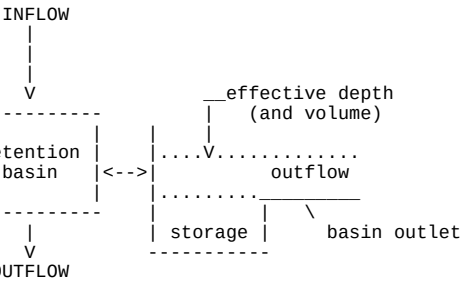
20%	40.2
30%	26.8
40%	13.4
50%	13.4
60%	13.4
70%	13.4
80%	13.4
90%	13.4

Problem Descriptions:
TEI JOB 3687
BIG BUILDING - SOUTH TRUCK YARD

==========

FLOW-THROUGH DETENTION BASIN MODEL

SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
CONSTANT HYDROGRAPH TIME UNIT(MINUTES) = 13.400
DEAD STORAGE(AF) = 0.00
SPECIFIED DEAD STORAGE(AF) FILLED = 0.00
ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN = 0.00



DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:
TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES = 7

*BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	**	**BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	*
* 0.000	0.000	0.000**		0.230	0.010	47.400	*
* 0.430	0.070	47.900**		0.630	0.220	48.300	*
* 0.830	0.500	48.800**		1.030	0.930	49.300	*
* 1.230	1.530	49.700**					

BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:

INTERVAL NUMBER	DEPTH (FEET)	{S-O*DT/2} (ACRE-FEET)	{S+O*DT/2} (ACRE-FEET)
1	0.00	0.00000	0.00000
2	0.23	-0.42744	0.44744
3	0.43	-0.37205	0.51205
4	0.63	-0.22574	0.66574
5	0.83	0.04964	0.95036
6	1.03	0.47503	1.38497
7	1.23	1.07134	1.98866

WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)

DETENTION BASIN ROUTING RESULTS:
NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.143	0.000	3.47	0.03	3.40	0.001
0.367	0.000	3.48	0.03	6.80	0.001
0.590	0.000	3.51	0.03	6.84	0.001
0.813	0.000	3.53	0.03	6.88	0.001
1.037	0.000	3.56	0.03	6.93	0.001
1.260	0.000	3.57	0.03	6.97	0.001
1.483	0.000	3.61	0.03	7.02	0.001
1.707	0.000	3.62	0.03	7.06	0.001
1.930	0.000	3.65	0.03	7.11	0.002
2.153	0.000	3.67	0.03	7.16	0.002
2.377	0.000	3.71	0.04	7.21	0.002
2.600	0.000	3.72	0.04	7.26	0.002
2.823	0.000	3.76	0.04	7.31	0.002

3.047	0.000	3.78	0.04	7.37	0.002
3.270	0.000	3.82	0.04	7.42	0.002
3.493	0.000	3.83	0.04	7.48	0.002
3.717	0.000	3.87	0.04	7.54	0.002
3.940	0.000	3.89	0.04	7.60	0.002
4.163	0.000	3.94	0.04	7.66	0.002
4.387	0.000	3.96	0.04	7.72	0.002
4.610	0.000	4.00	0.04	7.78	0.002
4.833	0.000	4.02	0.04	7.85	0.002
5.057	0.000	4.07	0.04	7.92	0.002
5.280	0.000	4.10	0.04	7.98	0.002
5.503	0.000	4.14	0.04	8.06	0.002
5.727	0.000	4.17	0.04	8.13	0.002
5.950	0.000	4.22	0.04	8.21	0.002
6.173	0.000	4.25	0.04	8.28	0.002
6.397	0.000	4.31	0.04	8.37	0.002
6.620	0.000	4.34	0.04	8.45	0.002
6.843	0.000	4.40	0.04	8.54	0.002
7.067	0.000	4.43	0.04	8.62	0.002
7.290	0.000	4.49	0.04	8.72	0.002
7.513	0.000	4.52	0.04	8.81	0.002
7.737	0.000	4.59	0.04	8.91	0.002
7.960	0.000	4.63	0.04	9.02	0.002
8.183	0.000	4.70	0.04	9.12	0.002
8.407	0.000	4.74	0.04	9.23	0.002
8.630	0.000	4.82	0.05	9.35	0.002
8.853	0.000	4.87	0.05	9.47	0.002
9.077	0.000	4.95	0.05	9.60	0.002
9.300	0.000	5.00	0.05	9.73	0.002
9.523	0.000	5.10	0.05	9.87	0.002
9.747	0.000	5.15	0.05	10.01	0.002
9.970	0.000	5.25	0.05	10.17	0.002
10.193	0.000	5.31	0.05	10.33	0.002
10.417	0.000	5.43	0.05	10.50	0.002
10.640	0.000	5.49	0.05	10.68	0.002
10.863	0.000	5.62	0.05	10.87	0.002
11.087	0.000	5.69	0.05	11.06	0.002
11.310	0.000	5.84	0.06	11.28	0.002
11.533	0.000	5.92	0.06	11.51	0.002
11.757	0.000	6.10	0.06	11.75	0.003
11.980	0.000	6.19	0.06	12.01	0.003
12.203	0.000	6.59	0.06	12.49	0.003
12.427	0.000	6.73	0.06	13.02	0.003
12.650	0.000	6.96	0.07	13.38	0.003
12.873	0.000	7.08	0.07	13.73	0.003
13.097	0.000	7.36	0.07	14.12	0.003
13.320	0.000	7.52	0.07	14.55	0.003
13.543	0.000	7.86	0.07	15.04	0.003
13.767	0.000	8.06	0.08	15.56	0.003
13.990	0.000	8.50	0.08	16.19	0.004
14.213	0.000	8.39	0.08	16.51	0.003
14.437	0.000	8.52	0.08	16.53	0.004
14.660	0.000	8.90	0.08	17.03	0.004
14.883	0.000	9.83	0.09	18.31	0.004
15.107	0.000	10.43	0.10	19.81	0.004
15.330	0.000	12.08	0.11	22.01	0.005
15.553	0.000	11.93	0.11	23.47	0.005
15.777	0.000	14.76	0.14	26.09	0.006
16.000	0.000	20.31	0.19	34.29	0.008
16.223	0.000	66.11	0.95	44.41	0.767
16.447	0.000	12.12	0.46	48.54	0.095
16.670	0.000	11.16	0.11	34.89	0.005
16.893	0.000	9.33	0.09	20.03	0.004
17.117	0.000	8.19	0.08	17.13	0.003
17.340	0.000	8.27	0.08	16.09	0.003
17.563	0.000	7.68	0.07	15.60	0.003
17.787	0.000	7.22	0.07	14.57	0.003
18.010	0.000	6.84	0.06	13.74	0.003
18.233	0.000	6.29	0.06	12.83	0.003
18.457	0.000	6.01	0.06	12.02	0.002
18.680	0.000	5.77	0.05	11.51	0.002
18.903	0.000	5.56	0.05	11.07	0.002
19.127	0.000	5.37	0.05	10.68	0.002
19.350	0.000	5.20	0.05	10.33	0.002
19.573	0.000	5.05	0.05	10.02	0.002
19.797	0.000	4.91	0.05	9.73	0.002
20.020	0.000	4.78	0.05	9.47	0.002
20.243	0.000	4.67	0.04	9.24	0.002
20.467	0.000	4.56	0.04	9.02	0.002
20.690	0.000	4.46	0.04	8.81	0.002
20.913	0.000	4.37	0.04	8.63	0.002
21.137	0.000	4.28	0.04	8.45	0.002
21.360	0.000	4.20	0.04	8.29	0.002
21.583	0.000	4.12	0.04	8.13	0.002

Q100=48.5 cfs
D=0.95'
V=0.767 ac-ft

21.807	0.000	4.05	0.04	7.99	0.002
22.030	0.000	3.98	0.04	7.85	0.002
22.253	0.000	3.92	0.04	7.72	0.002
22.477	0.000	3.85	0.04	7.60	0.002
22.700	0.000	3.80	0.04	7.48	0.002
22.923	0.000	3.74	0.04	7.37	0.002
23.147	0.000	3.69	0.03	7.26	0.002
23.370	0.000	3.64	0.03	7.16	0.002
23.593	0.000	3.59	0.03	7.07	0.001
23.817	0.000	3.54	0.03	6.97	0.001
24.040	0.000	3.50	0.03	6.88	0.001
24.263	0.000	0.00	0.00	3.42	0.000
24.487	0.000	0.00	0.00	0.00	0.000

JOB #3687 - 8996 ETIWANDA AVE, RANCHO CUCAMONGA
DETENTION IN NORTH TRUCK YARD

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	∑ Volume (c.f.)	∑ Volume (ac-ft)	Q Discharge (cfs)
1113.23	0.00	0				
			1200	1200	0.03	45.4
1113.40	0.17	14117				
			6569	7769	0.18	45.9
1113.60	0.37	51569				
			15564	23333	0.54	46.4
1113.80	0.57	104072				
			24741	48074	1.10	46.9
1114.00	0.77	143342				

```
**************************************************************************
                    SMALL AREA UNIT HYDROGRAPH MODEL
==========================================================================
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                           Analysis prepared by:

                         THIENES ENGINEERING, INC.
                            14349 FIRESTONE BLVD
                            LA MIRADA, CA 90638
                                714-521-4811

**************************************************************************
--------------------------------------------------------------------------

 Problem Descriptions:
  TEI JOB 3687
  BIG BUILDING - NORTH TRUCK YARD

--------------------------------------------------------------------------


    RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90
    TOTAL CATCHMENT AREA(ACRES) =   21.10
    SOIL-LOSS RATE, Fm,(INCH/HR) =  0.074
    LOW LOSS FRACTION = 0.095
    TIME OF CONCENTRATION(MIN.) = 11.50
    SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA
    USER SPECIFIED RAINFALL VALUES ARE USED
    RETURN FREQUENCY(YEARS) = 100
       5-MINUTE POINT RAINFALL VALUE(INCHES) =  0.51
      30-MINUTE POINT RAINFALL VALUE(INCHES) =  1.05
       1-HOUR   POINT RAINFALL VALUE(INCHES) =  1.40
       3-HOUR   POINT RAINFALL VALUE(INCHES) =  2.50
       6-HOUR   POINT RAINFALL VALUE(INCHES) =  3.75
      24-HOUR   POINT RAINFALL VALUE(INCHES) =  8.20

--------------------------------------------------------------------------

    TOTAL CATCHMENT   RUNOFF  VOLUME(ACRE-FEET) =    11.77
    TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) =     2.65

**************************************************************************
  TIME     VOLUME       Q    0.       17.5      35.0      52.5      70.0
 (HOURS)    (AF)      (CFS)
--------------------------------------------------------------------------
  0.09      0.0126      3.32  .Q        .         .         .         .
  0.28      0.0651      3.32  .Q        .         .         .         .
  0.47      0.1179      3.35  .Q        .         .         .         .
  0.67      0.1710      3.36  .Q        .         .         .         .
  0.86      0.2244      3.38  .Q        .         .         .         .
  1.05      0.2781      3.39  .Q        .         .         .         .
  1.24      0.3320      3.42  .Q        .         .         .         .
  1.43      0.3863      3.43  .Q        .         .         .         .
  1.62      0.4409      3.46  .Q        .         .         .         .
  1.82      0.4958      3.47  .Q        .         .         .         .
  2.01      0.5510      3.50  .Q        .         .         .         .
  2.20      0.6065      3.51  . Q       .         .         .         .
  2.39      0.6624      3.54  . Q       .         .         .         .
  2.58      0.7186      3.56  . Q       .         .         .         .
  2.78      0.7752      3.59  . Q       .         .         .         .
  2.97      0.8321      3.60  . Q       .         .         .         .
  3.16      0.8894      3.63  . Q       .         .         .         .
  3.35      0.9470      3.65  . Q       .         .         .         .
  3.54      1.0051      3.68  . Q       .         .         .         .
  3.73      1.0635      3.70  . Q       .         .         .         .
  3.92      1.1223      3.73  . Q       .         .         .         .
  4.12      1.1815      3.75  . Q       .         .         .         .
  4.31      1.2411      3.78  . Q       .         .         .         .
  4.50      1.3011      3.80  . Q       .         .         .         .
  4.69      1.3616      3.84  . Q       .         .         .         .
  4.88      1.4225      3.85  . Q       .         .         .         .
  5.07      1.4839      3.89  . Q       .         .         .         .
  5.27      1.5457      3.91  . Q       .         .         .         .
  5.46      1.6080      3.95  . Q       .         .         .         .
  5.65      1.6708      3.97  . Q       .         .         .         .
  5.84      1.7341      4.02  . Q       .         .         .         .
  6.03      1.7979      4.04  . Q       .         .         .         .
  6.22      1.8623      4.08  . Q       .         .         .         .
  6.42      1.9271      4.11  . Q       .         .         .         .
  6.61      1.9926      4.16  . Q       .         .         .         .
  6.80      2.0586      4.18  . Q       .         .         .         .
```

6.99	2.1252	4.23	. Q	.	.	.	.	
7.18	2.1924	4.26	. Q	.	.	.	.	
7.38	2.2602	4.31	. Q	.	.	.	.	
7.57	2.3287	4.34	. Q	.	.	.	.	
7.76	2.3979	4.39	. Q	.	.	.	.	
7.95	2.4677	4.42	. Q	.	.	.	.	
8.14	2.5383	4.49	. Q	.	.	.	.	
8.33	2.6096	4.52	. Q	.	.	.	.	
8.52	2.6817	4.58	. Q	.	.	.	.	
8.72	2.7545	4.62	. Q	.	.	.	.	
8.91	2.8282	4.69	. Q	.	.	.	.	
9.10	2.9028	4.72	. Q	.	.	.	.	
9.29	2.9782	4.80	. Q	.	.	.	.	
9.48	3.0545	4.84	. Q	.	.	.	.	
9.68	3.1318	4.92	. Q	.	.	.	.	
9.87	3.2102	4.97	. Q	.	.	.	.	
10.06	3.2895	5.06	. Q	.	.	.	.	
10.25	3.3700	5.10	. Q	.	.	.	.	
10.44	3.4516	5.20	. Q	.	.	.	.	
10.63	3.5344	5.25	. Q	.	.	.	.	
10.82	3.6184	5.36	. Q	.	.	.	.	
11.02	3.7038	5.42	. Q	.	.	.	.	
11.21	3.7906	5.54	. Q	.	.	.	.	
11.40	3.8788	5.60	. Q	.	.	.	.	
11.59	3.9687	5.74	. Q	.	.	.	.	
11.78	4.0602	5.81	. Q	.	.	.	.	
11.98	4.1534	5.96	. Q	.	.	.	.	
12.17	4.2491	6.11	. Q	.	.	.	.	
12.36	4.3485	6.44	. Q	.	.	.	.	
12.55	4.4512	6.53	. Q	.	.	.	.	
12.74	4.5563	6.73	. Q	.	.	.	.	
12.93	4.6638	6.84	. Q	.	.	.	.	
13.12	4.7741	7.08	. Q	.	.	.	.	
13.32	4.8872	7.21	. Q	.	.	.	.	
13.51	5.0036	7.49	. Q	.	.	.	.	
13.70	5.1235	7.65	. Q	.	.	.	.	
13.89	5.2474	8.00	. Q	.	.	.	.	
14.08	5.3757	8.20	. Q	.	.	.	.	
14.27	5.5027	7.84	. Q	.	.	.	.	
14.47	5.6290	8.11	. Q	.	.	.	.	
14.66	5.7624	8.74	. Q	.	.	.	.	
14.85	5.9040	9.13	. Q	.	.	.	.	
15.04	6.0562	10.09	. Q	.	.	.	.	
15.23	6.2209	10.70	. Q	.	.	.	.	
15.43	6.3992	11.81	. Q	.	.	.	.	
15.62	6.5791	10.91	. Q	.	.	.	.	
15.81	6.7873	15.37	. Q	.	.	.	.	
16.00	7.0783	21.38	. Q	.	.	.	.	
16.19	7.7963	69.28	. Q	.	.	.	.	
16.38	8.4452	12.65	. Q	.	.	.	.	
16.58	8.6362	11.45	. Q	.	.	.	.	
16.77	8.8027	9.57	. Q	.	.	.	.	
16.96	8.9451	8.41	. Q	.	.	.	.	
17.15	9.0741	7.88	. Q	.	.	.	.	
17.34	9.1984	7.82	. Q	.	.	.	.	
17.53	9.3185	7.34	. Q	.	.	.	.	
17.73	9.4317	6.96	. Q	.	.	.	.	
17.92	9.5393	6.63	. Q	.	.	.	.	
18.11	9.6422	6.35	. Q	.	.	.	.	
18.30	9.7391	5.89	. Q	.	.	.	.	
18.49	9.8306	5.67	. Q	.	.	.	.	
18.68	9.9189	5.48	. Q	.	.	.	.	
18.88	10.0043	5.31	. Q	.	.	.	.	
19.07	10.0871	5.15	. Q	.	.	.	.	
19.26	10.1676	5.01	. Q	.	.	.	.	
19.45	10.2459	4.88	. Q	.	.	.	.	
19.64	10.3223	4.76	. Q	.	.	.	.	
19.83	10.3968	4.65	. Q	.	.	.	.	
20.02	10.4697	4.55	. Q	.	.	.	.	
20.22	10.5410	4.45	. Q	.	.	.	.	
20.41	10.6109	4.37	. Q	.	.	.	.	
20.60	10.6794	4.28	. Q	.	.	.	.	
20.79	10.7466	4.20	. Q	.	.	.	.	
20.98	10.8126	4.13	. Q	.	.	.	.	
21.17	10.8775	4.06	. Q	.	.	.	.	
21.37	10.9413	4.00	. Q	.	.	.	.	
21.56	11.0041	3.93	. Q	.	.	.	.	
21.75	11.0659	3.87	. Q	.	.	.	.	
21.94	11.1269	3.82	. Q	.	.	.	.	
22.13	11.1869	3.76	. Q	.	.	.	.	
22.33	11.2461	3.71	. Q	.	.	.	.	
22.52	11.3045	3.66	. Q	.	.	.	.	
22.71	11.3622	3.62	. Q	.	.	.	.	
22.90	11.4191	3.57	. Q	.	.	.	.	

```
  23.09     11.4753      3.53  . Q       .         .         .         .
  23.28     11.5309      3.49  .Q        .         .         .         .
  23.48     11.5857      3.45  .Q        .         .         .         .
  23.67     11.6400      3.41  .Q        .         .         .         .
  23.86     11.6937      3.37  .Q        .         .         .         .
  24.05     11.7468      3.33  .Q        .         .         .         .
  24.24     11.7732      0.00  Q         .         .         .         .
 ----------------------------------------------------------------------------
-------------------------------------------------------------------------------
    TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:
    (Note: 100% of Peak Flow Rate estimate assumed to have
    an instantaneous time duration)

    Percentile of Estimated               Duration
        Peak Flow Rate                    (minutes)
    ======================            =========
               0%                      1449.0
              10%                       287.5
              20%                        34.5
              30%                        23.0
              40%                        11.5
              50%                        11.5
              60%                        11.5
              70%                        11.5
              80%                        11.5
              90%                        11.5

  Problem Descriptions:
   TEI JOB 3687
   BIG BUILDING - NORTH TRUCK YARD



===============================================================================
     FLOW-THROUGH DETENTION BASIN MODEL

     SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
     CONSTANT HYDROGRAPH TIME UNIT(MINUTES) =   11.500
     DEAD STORAGE(AF) =       0.00
     SPECIFIED DEAD STORAGE(AF) FILLED =       0.00
     ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN =    0.00


                    INFLOW
                      |
                      |
                      |
                      V                __effective depth
                -------------          |   (and volume)
                |           |    |     |
                | detention |    |....V.............
                |   basin   |<-->|          outflow
                |           |    |.........________
                -------------    |         |   \
                      |          | storage |     basin outlet
                      V          -----------
                   OUTFLOW


     DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:
     TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES =   6
     *BASIN-DEPTH  STORAGE    OUTFLOW  **BASIN-DEPTH  STORAGE    OUTFLOW  *
     *   (FEET)  (ACRE-FEET)   (CFS)   **   (FEET)  (ACRE-FEET)   (CFS)   *
     *      0.000      0.000      0.000**      0.170      0.030     45.400*
     *      0.370      0.180     45.900**      0.570      0.540     46.400*
     *      0.770      1.100     46.900**      0.970      1.400     47.400*
-------------------------------------------------------------------------------
     BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:
      INTERVAL   DEPTH   {S-O*DT/2}   {S+O*DT/2}
       NUMBER   (FEET)   (ACRE-FEET)  (ACRE-FEET)
           1     0.00       0.00000      0.00000
           2     0.17      -0.32957      0.38957
           3     0.37      -0.18353      0.54353
           4     0.57       0.17251      0.90749
           5     0.77       0.72855      1.47145
           6     0.97       1.02459      1.77541
     WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)
-------------------------------------------------------------------------------
     DETENTION BASIN ROUTING RESULTS:
     NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES
           OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE
           AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.
```

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.092	0.000	3.32	0.02	3.06	0.004
0.283	0.000	3.32	0.02	6.13	0.004
0.475	0.000	3.35	0.02	6.15	0.004
0.667	0.000	3.36	0.02	6.19	0.004
0.858	0.000	3.38	0.02	6.22	0.004
1.050	0.000	3.39	0.02	6.25	0.004
1.242	0.000	3.42	0.02	6.29	0.004
1.433	0.000	3.43	0.02	6.32	0.004
1.625	0.000	3.46	0.02	6.36	0.004
1.817	0.000	3.47	0.02	6.40	0.004
2.008	0.000	3.50	0.02	6.43	0.004
2.200	0.000	3.51	0.02	6.47	0.004
2.392	0.000	3.54	0.02	6.51	0.004
2.583	0.000	3.56	0.02	6.55	0.004
2.775	0.000	3.59	0.02	6.59	0.004
2.967	0.000	3.60	0.02	6.63	0.004
3.158	0.000	3.63	0.03	6.68	0.004
3.350	0.000	3.65	0.03	6.72	0.004
3.542	0.000	3.68	0.03	6.76	0.004
3.733	0.000	3.70	0.03	6.81	0.005
3.925	0.000	3.73	0.03	6.85	0.005
4.117	0.000	3.75	0.03	6.90	0.005
4.308	0.000	3.78	0.03	6.95	0.005
4.500	0.000	3.80	0.03	7.00	0.005
4.692	0.000	3.84	0.03	7.05	0.005
4.883	0.000	3.85	0.03	7.10	0.005
5.075	0.000	3.89	0.03	7.15	0.005
5.267	0.000	3.91	0.03	7.21	0.005
5.458	0.000	3.95	0.03	7.26	0.005
5.650	0.000	3.97	0.03	7.32	0.005
5.842	0.000	4.02	0.03	7.38	0.005
6.033	0.000	4.04	0.03	7.44	0.005
6.225	0.000	4.08	0.03	7.50	0.005
6.417	0.000	4.11	0.03	7.56	0.005
6.608	0.000	4.16	0.03	7.63	0.005
6.800	0.000	4.18	0.03	7.69	0.005
6.992	0.000	4.23	0.03	7.76	0.005
7.183	0.000	4.26	0.03	7.83	0.005
7.375	0.000	4.31	0.03	7.91	0.005
7.567	0.000	4.34	0.03	7.98	0.005
7.758	0.000	4.39	0.03	8.06	0.005
7.950	0.000	4.42	0.03	8.14	0.005
8.142	0.000	4.49	0.03	8.22	0.005
8.333	0.000	4.52	0.03	8.31	0.006
8.525	0.000	4.58	0.03	8.40	0.006
8.717	0.000	4.62	0.03	8.49	0.006
8.908	0.000	4.69	0.03	8.59	0.006
9.100	0.000	4.72	0.03	8.69	0.006
9.292	0.000	4.80	0.03	8.79	0.006
9.483	0.000	4.84	0.03	8.90	0.006
9.675	0.000	4.92	0.03	9.01	0.006
9.867	0.000	4.97	0.03	9.13	0.006
10.058	0.000	5.06	0.03	9.25	0.006
10.250	0.000	5.10	0.04	9.38	0.006
10.442	0.000	5.20	0.04	9.51	0.006
10.633	0.000	5.25	0.04	9.65	0.006
10.825	0.000	5.36	0.04	9.80	0.007
11.017	0.000	5.42	0.04	9.95	0.007
11.208	0.000	5.54	0.04	10.11	0.007
11.400	0.000	5.60	0.04	10.29	0.007
11.592	0.000	5.74	0.04	10.47	0.007
11.783	0.000	5.81	0.04	10.66	0.007
11.975	0.000	5.96	0.04	10.87	0.007
12.167	0.000	6.11	0.04	11.15	0.007
12.358	0.000	6.44	0.04	11.59	0.008
12.550	0.000	6.53	0.05	11.97	0.008
12.742	0.000	6.73	0.05	12.24	0.008
12.933	0.000	6.84	0.05	12.53	0.008
13.125	0.000	7.08	0.05	12.85	0.009
13.317	0.000	7.21	0.05	13.18	0.009
13.508	0.000	7.49	0.05	13.57	0.009
13.700	0.000	7.65	0.05	13.97	0.009
13.892	0.000	8.00	0.06	14.44	0.010
14.083	0.000	8.20	0.06	14.95	0.010
14.275	0.000	7.84	0.05	14.80	0.010
14.467	0.000	8.11	0.06	14.72	0.010
14.658	0.000	8.74	0.06	15.55	0.011
14.850	0.000	9.13	0.06	16.50	0.011
15.042	0.000	10.09	0.07	17.74	0.012
15.233	0.000	10.70	0.07	19.19	0.013
15.425	0.000	11.81	0.08	20.78	0.014

15.617	0.000	10.91	0.08	20.97	0.013
15.808	0.000	15.37	0.11	24.26	0.019
16.000	0.000	21.38	0.15	33.92	0.026
16.192	0.000	69.28	0.64	43.01	0.729
16.383	0.000	12.65	0.38	46.25	0.196
16.575	0.000	11.45	0.08	33.53	0.014
16.767	0.000	9.57	0.07	19.41	0.012
16.958	0.000	8.41	0.06	16.59	0.010
17.150	0.000	7.88	0.05	15.03	0.010
17.342	0.000	7.82	0.05	14.49	0.010
17.533	0.000	7.34	0.05	13.99	0.009
17.725	0.000	6.96	0.05	13.20	0.008
17.917	0.000	6.63	0.05	12.54	0.008
18.108	0.000	6.35	0.04	11.98	0.008
18.300	0.000	5.89	0.04	11.29	0.007
18.492	0.000	5.67	0.04	10.67	0.007
18.683	0.000	5.48	0.04	10.29	0.007
18.875	0.000	5.31	0.04	9.95	0.006
19.067	0.000	5.15	0.04	9.65	0.006
19.258	0.000	5.01	0.03	9.38	0.006
19.450	0.000	4.88	0.03	9.13	0.006
19.642	0.000	4.76	0.03	8.90	0.006
19.833	0.000	4.65	0.03	8.69	0.006
20.025	0.000	4.55	0.03	8.49	0.006
20.217	0.000	4.45	0.03	8.31	0.005
20.408	0.000	4.37	0.03	8.14	0.005
20.600	0.000	4.28	0.03	7.98	0.005
20.792	0.000	4.20	0.03	7.83	0.005
20.983	0.000	4.13	0.03	7.69	0.005
21.175	0.000	4.06	0.03	7.56	0.005
21.367	0.000	4.00	0.03	7.44	0.005
21.558	0.000	3.93	0.03	7.32	0.005
21.750	0.000	3.87	0.03	7.21	0.005
21.942	0.000	3.82	0.03	7.10	0.005
22.133	0.000	3.76	0.03	7.00	0.005
22.325	0.000	3.71	0.03	6.90	0.005
22.517	0.000	3.66	0.03	6.81	0.004
22.708	0.000	3.62	0.02	6.72	0.004
22.900	0.000	3.57	0.02	6.63	0.004
23.092	0.000	3.53	0.02	6.55	0.004
23.283	0.000	3.49	0.02	6.47	0.004
23.475	0.000	3.45	0.02	6.40	0.004
23.667	0.000	3.41	0.02	6.33	0.004
23.858	0.000	3.37	0.02	6.26	0.004
24.050	0.000	3.33	0.02	6.19	0.004
24.242	0.000	0.00	0.00	3.08	0.000
24.433	0.000	0.00	0.00	0.00	0.000

Q100=46.3cfs
D=0.64'
V=0.729 ac-ft

JOB #3687 - 8996 ETIWANDA AVE, RANCHO CUCAMONGA
DETENTION IN EASTERLY TRUCK YARD

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	∑ Volume (c.f.)	∑ Volume (ac-ft)	Q Discharge (cfs)
1111.29	0.00	0				
			32	32	0.00	9.2
1111.40	0.11	580				
			508	539	0.01	9.3
1111.60	0.31	4495				
			1511	2051	0.05	9.5
1111.80	0.51	10618				
			3408	5458	0.13	9.6
1112.00	0.71	23459				
			5273	10732	0.25	9.8
1112.20	0.91	29275				
			6925	17657	0.41	9.9
1112.40	1.11	39973				

5.81

```
**************************************************************************
                    SMALL AREA UNIT HYDROGRAPH MODEL
==========================================================================
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             Ver. 23.0  Release Date: 07/01/2016  License ID 1435

                           Analysis prepared by:

                         THIENES ENGINEERING, INC.
                            14349 FIRESTONE BLVD
                            LA MIRADA, CA 90638
                                714-521-4811

**************************************************************************
--------------------------------------------------------------------------

 Problem Descriptions:
  TEI JOB 3687
  SMALL BUILDING - EASTERLY TRUCK YARD

--------------------------------------------------------------------------


    RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90
    TOTAL CATCHMENT AREA(ACRES) =    5.75
    SOIL-LOSS RATE, Fm,(INCH/HR) =  0.074
    LOW LOSS FRACTION = 0.095
    TIME OF CONCENTRATION(MIN.) =  7.70
    SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA
    USER SPECIFIED RAINFALL VALUES ARE USED
    RETURN FREQUENCY(YEARS) = 100
       5-MINUTE POINT RAINFALL VALUE(INCHES) =  0.51
      30-MINUTE POINT RAINFALL VALUE(INCHES) =  1.05
       1-HOUR   POINT RAINFALL VALUE(INCHES) =  1.40
       3-HOUR   POINT RAINFALL VALUE(INCHES) =  2.50
       6-HOUR   POINT RAINFALL VALUE(INCHES) =  3.75
      24-HOUR   POINT RAINFALL VALUE(INCHES) =  8.20

--------------------------------------------------------------------------

    TOTAL CATCHMENT   RUNOFF  VOLUME(ACRE-FEET) =     3.21
    TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) =     0.72

**************************************************************************
  TIME     VOLUME       Q    0.        7.5      15.0      22.5      30.0
 (HOURS)    (AF)      (CFS)
--------------------------------------------------------------------------
  0.09      0.0048      0.91  .Q        .         .         .         .
  0.22      0.0144      0.91  .Q        .         .         .         .
  0.34      0.0240      0.91  .Q        .         .         .         .
  0.47      0.0337      0.91  .Q        .         .         .         .
  0.60      0.0434      0.91  .Q        .         .         .         .
  0.73      0.0531      0.92  .Q        .         .         .         .
  0.86      0.0629      0.92  .Q        .         .         .         .
  0.99      0.0727      0.93  .Q        .         .         .         .
  1.11      0.0825      0.93  .Q        .         .         .         .
  1.24      0.0924      0.93  .Q        .         .         .         .
  1.37      0.1023      0.94  .Q        .         .         .         .
  1.50      0.1122      0.94  .Q        .         .         .         .
  1.63      0.1222      0.94  .Q        .         .         .         .
  1.76      0.1322      0.95  .Q        .         .         .         .
  1.88      0.1423      0.95  .Q        .         .         .         .
  2.01      0.1524      0.95  .Q        .         .         .         .
  2.14      0.1625      0.96  .Q        .         .         .         .
  2.27      0.1727      0.96  .Q        .         .         .         .
  2.40      0.1829      0.97  .Q        .         .         .         .
  2.53      0.1932      0.97  .Q        .         .         .         .
  2.65      0.2035      0.97  .Q        .         .         .         .
  2.78      0.2139      0.98  .Q        .         .         .         .
  2.91      0.2243      0.98  .Q        .         .         .         .
  3.04      0.2347      0.99  .Q        .         .         .         .
  3.17      0.2452      0.99  .Q        .         .         .         .
  3.30      0.2557      1.00  .Q        .         .         .         .
  3.42      0.2663      1.00  .Q        .         .         .         .
  3.55      0.2769      1.00  .Q        .         .         .         .
  3.68      0.2876      1.01  .Q        .         .         .         .
  3.81      0.2983      1.01  .Q        .         .         .         .
  3.94      0.3091      1.02  .Q        .         .         .         .
  4.07      0.3199      1.02  .Q        .         .         .         .
  4.19      0.3307      1.03  .Q        .         .         .         .
  4.32      0.3417      1.03  .Q        .         .         .         .
  4.45      0.3526      1.04  .Q        .         .         .         .
  4.58      0.3637      1.04  .Q        .         .         .         .
```

4.71	0.3747	1.05	.Q	.	.	.	.
4.84	0.3859	1.05	.Q	.	.	.	.
4.96	0.3970	1.06	.Q	.	.	.	.
5.09	0.4083	1.06	.Q	.	.	.	.
5.22	0.4196	1.07	.Q	.	.	.	.
5.35	0.4309	1.07	.Q	.	.	.	.
5.48	0.4424	1.08	.Q	.	.	.	.
5.61	0.4538	1.09	.Q	.	.	.	.
5.73	0.4654	1.09	.Q	.	.	.	.
5.86	0.4770	1.10	.Q	.	.	.	.
5.99	0.4886	1.10	.Q	.	.	.	.
6.12	0.5004	1.11	.Q	.	.	.	.
6.25	0.5122	1.11	.Q	.	.	.	.
6.38	0.5240	1.12	.Q	.	.	.	.
6.50	0.5359	1.13	.Q	.	.	.	.
6.63	0.5479	1.14	.Q	.	.	.	.
6.76	0.5600	1.14	.Q	.	.	.	.
6.89	0.5722	1.15	.Q	.	.	.	.
7.02	0.5844	1.15	.Q	.	.	.	.
7.14	0.5967	1.16	.Q	.	.	.	.
7.27	0.6090	1.17	.Q	.	.	.	.
7.40	0.6215	1.18	.Q	.	.	.	.
7.53	0.6340	1.18	.Q	.	.	.	.
7.66	0.6466	1.19	.Q	.	.	.	.
7.79	0.6593	1.20	.Q	.	.	.	.
7.92	0.6721	1.21	.Q	.	.	.	.
8.04	0.6849	1.22	.Q	.	.	.	.
8.17	0.6979	1.23	.Q	.	.	.	.
8.30	0.7109	1.23	.Q	.	.	.	.
8.43	0.7241	1.24	.Q	.	.	.	.
8.56	0.7373	1.25	.Q	.	.	.	.
8.69	0.7507	1.26	.Q	.	.	.	.
8.81	0.7641	1.27	.Q	.	.	.	.
8.94	0.7776	1.28	.Q	.	.	.	.
9.07	0.7913	1.29	.Q	.	.	.	.
9.20	0.8050	1.30	.Q	.	.	.	.
9.33	0.8189	1.31	.Q	.	.	.	.
9.45	0.8329	1.33	.Q	.	.	.	.
9.58	0.8470	1.33	.Q	.	.	.	.
9.71	0.8612	1.35	.Q	.	.	.	.
9.84	0.8755	1.36	.Q	.	.	.	.
9.97	0.8900	1.37	.Q	.	.	.	.
10.10	0.9046	1.38	.Q	.	.	.	.
10.23	0.9194	1.40	.Q	.	.	.	.
10.35	0.9342	1.41	.Q	.	.	.	.
10.48	0.9493	1.43	.Q	.	.	.	.
10.61	0.9645	1.44	.Q	.	.	.	.
10.74	0.9798	1.46	.Q	.	.	.	.
10.87	0.9953	1.47	.Q	.	.	.	.
10.99	1.0109	1.49	.Q	.	.	.	.
11.12	1.0268	1.50	.Q	.	.	.	.
11.25	1.0428	1.52	. Q	.	.	.	.
11.38	1.0590	1.53	. Q	.	.	.	.
11.51	1.0754	1.56	. Q	.	.	.	.
11.64	1.0920	1.57	. Q	.	.	.	.
11.77	1.1088	1.60	. Q	.	.	.	.
11.89	1.1258	1.61	. Q	.	.	.	.
12.02	1.1430	1.64	. Q	.	.	.	.
12.15	1.1608	1.70	. Q	.	.	.	.
12.28	1.1790	1.75	. Q	.	.	.	.
12.41	1.1977	1.76	. Q	.	.	.	.
12.53	1.2166	1.80	. Q	.	.	.	.
12.66	1.2357	1.82	. Q	.	.	.	.
12.79	1.2552	1.86	. Q	.	.	.	.
12.92	1.2750	1.88	. Q	.	.	.	.
13.05	1.2951	1.92	. Q	.	.	.	.
13.18	1.3156	1.94	. Q	.	.	.	.
13.30	1.3365	1.99	. Q	.	.	.	.
13.43	1.3577	2.02	. Q	.	.	.	.
13.56	1.3794	2.07	. Q	.	.	.	.
13.69	1.4016	2.10	. Q	.	.	.	.
13.82	1.4242	2.17	. Q	.	.	.	.
13.95	1.4474	2.20	. Q	.	.	.	.
14.07	1.4707	2.19	. Q	.	.	.	.
14.20	1.4935	2.10	. Q	.	.	.	.
14.33	1.5162	2.19	. Q	.	.	.	.
14.46	1.5397	2.24	. Q	.	.	.	.
14.59	1.5642	2.36	. Q	.	.	.	.
14.72	1.5896	2.43	. Q	.	.	.	.
14.85	1.6161	2.58	. Q	.	.	.	.
14.97	1.6440	2.67	. Q	.	.	.	.
15.10	1.6734	2.88	. Q	.	.	.	.
15.23	1.7046	3.01	. Q	.	.	.	.
15.36	1.7382	3.32	. Q	.	.	.	.

```
 15.49      1.7714      2.94  .  Q      .         .         .         .
 15.62      1.8047      3.34  .   Q     .         .         .         .
 15.74      1.8424      3.77  .    Q    .         .         .         .
 15.87      1.8908      5.36  .      Q  .         .         .         .
 16.00      1.9591      7.50  .         Q         .         .         .
 16.13      2.1266     24.09  .         .         .         . Q       .
 16.26      2.2773      4.32  .    Q    .         .         .         .
 16.39      2.3162      3.03  .   Q     .         .         .         .
 16.51      2.3490      3.15  .   Q     .         .         .         .
 16.64      2.3804      2.77  .  Q      .         .         .         .
 16.77      2.4083      2.50  .  Q      .         .         .         .
 16.90      2.4338      2.30  .  Q      .         .         .         .
 17.03      2.4574      2.14  . Q       .         .         .         .
 17.16      2.4806      2.24  . Q       .         .         .         .
 17.28      2.5038      2.13  . Q       .         .         .         .
 17.41      2.5260      2.04  . Q       .         .         .         .
 17.54      2.5472      1.97  . Q       .         .         .         .
 17.67      2.5677      1.90  . Q       .         .         .         .
 17.80      2.5875      1.84  . Q       .         .         .         .
 17.92      2.6067      1.78  . Q       .         .         .         .
 18.05      2.6253      1.73  . Q       .         .         .         .
 18.18      2.6431      1.63  . Q       .         .         .         .
 18.31      2.6602      1.58  . Q       .         .         .         .
 18.44      2.6768      1.55  . Q       .         .         .         .
 18.57      2.6930      1.51  . Q       .         .         .         .
 18.69      2.7088      1.48  .Q        .         .         .         .
 18.82      2.7243      1.45  .Q        .         .         .         .
 18.95      2.7395      1.42  .Q        .         .         .         .
 19.08      2.7543      1.39  .Q        .         .         .         .
 19.21      2.7690      1.36  .Q        .         .         .         .
 19.34      2.7833      1.34  .Q        .         .         .         .
 19.47      2.7974      1.32  .Q        .         .         .         .
 19.59      2.8113      1.30  .Q        .         .         .         .
 19.72      2.8249      1.28  .Q        .         .         .         .
 19.85      2.8384      1.26  .Q        .         .         .         .
 19.98      2.8516      1.24  .Q        .         .         .         .
 20.11      2.8646      1.22  .Q        .         .         .         .
 20.23      2.8775      1.20  .Q        .         .         .         .
 20.36      2.8902      1.19  .Q        .         .         .         .
 20.49      2.9027      1.17  .Q        .         .         .         .
 20.62      2.9151      1.16  .Q        .         .         .         .
 20.75      2.9273      1.14  .Q        .         .         .         .
 20.88      2.9394      1.13  .Q        .         .         .         .
 21.01      2.9513      1.12  .Q        .         .         .         .
 21.13      2.9631      1.11  .Q        .         .         .         .
 21.26      2.9748      1.09  .Q        .         .         .         .
 21.39      2.9863      1.08  .Q        .         .         .         .
 21.52      2.9977      1.07  .Q        .         .         .         .
 21.65      3.0090      1.06  .Q        .         .         .         .
 21.77      3.0202      1.05  .Q        .         .         .         .
 21.90      3.0313      1.04  .Q        .         .         .         .
 22.03      3.0422      1.03  .Q        .         .         .         .
 22.16      3.0531      1.02  .Q        .         .         .         .
 22.29      3.0639      1.01  .Q        .         .         .         .
 22.42      3.0745      1.00  .Q        .         .         .         .
 22.55      3.0851      0.99  .Q        .         .         .         .
 22.67      3.0956      0.98  .Q        .         .         .         .
 22.80      3.1060      0.98  .Q        .         .         .         .
 22.93      3.1163      0.97  .Q        .         .         .         .
 23.06      3.1265      0.96  .Q        .         .         .         .
 23.19      3.1367      0.95  .Q        .         .         .         .
 23.32      3.1467      0.95  .Q        .         .         .         .
 23.44      3.1567      0.94  .Q        .         .         .         .
 23.57      3.1666      0.93  .Q        .         .         .         .
 23.70      3.1765      0.92  .Q        .         .         .         .
 23.83      3.1862      0.92  .Q        .         .         .         .
 23.96      3.1959      0.91  .Q        .         .         .         .
 24.08      3.2055      0.90  .Q        .         .         .         .
 24.21      3.2103      0.00  Q         .         .         .         .
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
    TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:
    (Note: 100% of Peak Flow Rate estimate assumed to have
    an instantaneous time duration)

    Percentile of Estimated              Duration
        Peak Flow Rate                   (minutes)
    ======================           =========
              0%                        1447.6
             10%                         130.9
             20%                          23.1
             30%                          15.4
             40%                           7.7
             50%                           7.7
```

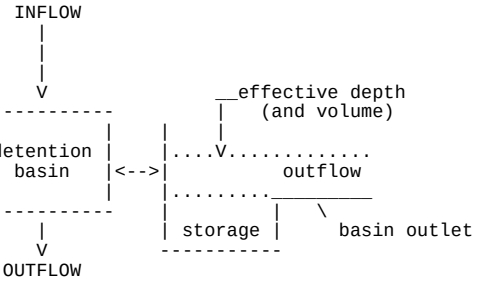
60%	7.7
70%	7.7
80%	7.7
90%	7.7

Problem Descriptions:
TEI JOB 3687
SMALL BUILDING - EASTERLY TRUCK YARD

==========

FLOW-THROUGH DETENTION BASIN MODEL

SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
CONSTANT HYDROGRAPH TIME UNIT(MINUTES) = 7.700
DEAD STORAGE(AF) = 0.00
SPECIFIED DEAD STORAGE(AF) FILLED = 0.00
ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN = 0.00



DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:
TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES = 7

*BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	**	*BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	*
0.000	0.000	0.000	**	0.110	0.010	9.200	*
0.310	0.010	9.300	**	0.510	0.050	9.500	*
0.710	0.130	9.600	**	0.910	0.250	9.800	*
1.110	0.410	9.900	**				

BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:

INTERVAL NUMBER	DEPTH (FEET)	{S-O*DT/2} (ACRE-FEET)	{S+O*DT/2} (ACRE-FEET)
1	0.00	0.00000	0.00000
2	0.11	-0.03879	0.05879
3	0.31	-0.03932	0.05932
4	0.51	-0.00038	0.10038
5	0.71	0.07909	0.18091
6	0.91	0.19803	0.30197
7	1.11	0.35750	0.46250

WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)

DETENTION BASIN ROUTING RESULTS:
NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.087	0.000	0.91	0.02	0.75	0.002
0.215	0.000	0.91	0.02	1.50	0.002
0.343	0.000	0.91	0.02	1.51	0.002
0.472	0.000	0.91	0.02	1.51	0.002
0.600	0.000	0.91	0.02	1.52	0.002
0.728	0.000	0.92	0.02	1.52	0.002
0.857	0.000	0.92	0.02	1.53	0.002
0.985	0.000	0.93	0.02	1.53	0.002
1.113	0.000	0.93	0.02	1.54	0.002
1.242	0.000	0.93	0.02	1.54	0.002
1.370	0.000	0.94	0.02	1.55	0.002
1.498	0.000	0.94	0.02	1.56	0.002
1.627	0.000	0.94	0.02	1.56	0.002
1.755	0.000	0.95	0.02	1.57	0.002
1.883	0.000	0.95	0.02	1.57	0.002
2.012	0.000	0.95	0.02	1.58	0.002
2.140	0.000	0.96	0.02	1.59	0.002

2.268	0.000	0.96	0.02	1.59	0.002
2.397	0.000	0.97	0.02	1.60	0.002
2.525	0.000	0.97	0.02	1.61	0.002
2.653	0.000	0.97	0.02	1.61	0.002
2.782	0.000	0.98	0.02	1.62	0.002
2.910	0.000	0.98	0.02	1.63	0.002
3.038	0.000	0.99	0.02	1.63	0.002
3.167	0.000	0.99	0.02	1.64	0.002
3.295	0.000	1.00	0.02	1.65	0.002
3.423	0.000	1.00	0.02	1.65	0.002
3.552	0.000	1.00	0.02	1.66	0.002
3.680	0.000	1.01	0.02	1.67	0.002
3.808	0.000	1.01	0.02	1.68	0.002
3.937	0.000	1.02	0.02	1.68	0.002
4.065	0.000	1.02	0.02	1.69	0.002
4.193	0.000	1.03	0.02	1.70	0.002
4.322	0.000	1.03	0.02	1.71	0.002
4.450	0.000	1.04	0.02	1.72	0.002
4.578	0.000	1.04	0.02	1.72	0.002
4.707	0.000	1.05	0.02	1.73	0.002
4.835	0.000	1.05	0.02	1.74	0.002
4.963	0.000	1.06	0.02	1.75	0.002
5.092	0.000	1.06	0.02	1.76	0.002
5.220	0.000	1.07	0.02	1.77	0.002
5.348	0.000	1.07	0.02	1.78	0.002
5.477	0.000	1.08	0.02	1.79	0.002
5.605	0.000	1.09	0.02	1.80	0.002
5.733	0.000	1.09	0.02	1.81	0.002
5.862	0.000	1.10	0.02	1.82	0.002
5.990	0.000	1.10	0.02	1.83	0.002
6.118	0.000	1.11	0.02	1.84	0.002
6.247	0.000	1.11	0.02	1.85	0.002
6.375	0.000	1.12	0.02	1.86	0.002
6.503	0.000	1.13	0.02	1.87	0.002
6.632	0.000	1.14	0.02	1.88	0.002
6.760	0.000	1.14	0.02	1.89	0.002
6.888	0.000	1.15	0.02	1.90	0.002
7.017	0.000	1.15	0.02	1.91	0.002
7.145	0.000	1.16	0.02	1.92	0.002
7.273	0.000	1.17	0.02	1.94	0.002
7.402	0.000	1.18	0.02	1.95	0.002
7.530	0.000	1.18	0.02	1.96	0.002
7.658	0.000	1.19	0.02	1.97	0.002
7.787	0.000	1.20	0.02	1.99	0.002
7.915	0.000	1.21	0.02	2.00	0.002
8.043	0.000	1.22	0.02	2.01	0.002
8.172	0.000	1.23	0.02	2.03	0.002
8.300	0.000	1.23	0.02	2.04	0.002
8.428	0.000	1.24	0.02	2.06	0.002
8.557	0.000	1.25	0.02	2.07	0.002
8.685	0.000	1.26	0.03	2.09	0.002
8.813	0.000	1.27	0.03	2.10	0.002
8.942	0.000	1.28	0.03	2.12	0.002
9.070	0.000	1.29	0.03	2.14	0.002
9.198	0.000	1.30	0.03	2.15	0.002
9.327	0.000	1.31	0.03	2.17	0.002
9.455	0.000	1.33	0.03	2.19	0.002
9.583	0.000	1.33	0.03	2.21	0.002
9.712	0.000	1.35	0.03	2.23	0.002
9.840	0.000	1.36	0.03	2.24	0.002
9.968	0.000	1.37	0.03	2.27	0.002
10.097	0.000	1.38	0.03	2.29	0.002
10.225	0.000	1.40	0.03	2.31	0.003
10.353	0.000	1.41	0.03	2.33	0.003
10.482	0.000	1.43	0.03	2.35	0.003
10.610	0.000	1.44	0.03	2.38	0.003
10.738	0.000	1.46	0.03	2.40	0.003
10.867	0.000	1.47	0.03	2.42	0.003
10.995	0.000	1.49	0.03	2.45	0.003
11.123	0.000	1.50	0.03	2.48	0.003
11.252	0.000	1.52	0.03	2.51	0.003
11.380	0.000	1.53	0.03	2.53	0.003
11.508	0.000	1.56	0.03	2.57	0.003
11.637	0.000	1.57	0.03	2.60	0.003
11.765	0.000	1.60	0.03	2.63	0.003
11.893	0.000	1.61	0.03	2.66	0.003
12.022	0.000	1.64	0.03	2.70	0.003
12.150	0.000	1.70	0.03	2.77	0.003
12.278	0.000	1.75	0.03	2.86	0.003
12.407	0.000	1.76	0.04	2.91	0.003
12.535	0.000	1.80	0.04	2.96	0.003
12.663	0.000	1.82	0.04	3.00	0.003
12.792	0.000	1.86	0.04	3.05	0.003
12.920	0.000	1.88	0.04	3.10	0.003

13.048	0.000	1.92	0.04	3.15	0.003
13.177	0.000	1.94	0.04	3.21	0.004
13.305	0.000	1.99	0.04	3.26	0.004
13.433	0.000	2.02	0.04	3.33	0.004
13.562	0.000	2.07	0.04	3.39	0.004
13.690	0.000	2.10	0.04	3.47	0.004
13.818	0.000	2.17	0.04	3.54	0.004
13.947	0.000	2.20	0.04	3.63	0.004
14.075	0.000	2.19	0.04	3.65	0.004
14.203	0.000	2.10	0.04	3.56	0.004
14.332	0.000	2.19	0.04	3.56	0.004
14.460	0.000	2.24	0.04	3.68	0.004
14.588	0.000	2.36	0.05	3.82	0.004
14.717	0.000	2.43	0.05	3.98	0.004
14.845	0.000	2.58	0.05	4.16	0.005
14.973	0.000	2.67	0.05	4.36	0.005
15.102	0.000	2.88	0.06	4.61	0.005
15.230	0.000	3.01	0.06	4.89	0.005
15.358	0.000	3.32	0.07	5.25	0.006
15.487	0.000	2.94	0.06	5.20	0.005
15.615	0.000	3.34	0.07	5.21	0.006
15.743	0.000	3.77	0.07	5.90	0.007
15.872	0.000	5.36	0.11	7.58	0.010
16.000	0.000	7.50	0.41	9.15	0.030
16.128	0.000	24.09	0.83	9.56	0.204
16.257	0.000	4.32	0.74	9.68	0.147
16.385	0.000	3.03	0.58	9.58	0.078
16.513	0.000	3.15	0.32	9.42	0.011
16.642	0.000	2.77	0.05	6.95	0.005
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16.898	0.000	2.30	0.05	3.99	0.004
17.027	0.000	2.14	0.04	3.69	0.004
17.155	0.000	2.24	0.04	3.64	0.004
17.283	0.000	2.13	0.04	3.63	0.004
17.412	0.000	2.04	0.04	3.47	0.004
17.540	0.000	1.97	0.04	3.33	0.004
17.668	0.000	1.90	0.04	3.21	0.003
17.797	0.000	1.84	0.04	3.10	0.003
17.925	0.000	1.78	0.04	3.00	0.003
18.053	0.000	1.73	0.03	2.92	0.003
18.182	0.000	1.63	0.03	2.79	0.003
18.310	0.000	1.58	0.03	2.66	0.003
18.438	0.000	1.55	0.03	2.60	0.003
18.567	0.000	1.51	0.03	2.54	0.003
18.695	0.000	1.48	0.03	2.48	0.003
18.823	0.000	1.45	0.03	2.43	0.003
18.952	0.000	1.42	0.03	2.38	0.003
19.080	0.000	1.39	0.03	2.33	0.003
19.208	0.000	1.36	0.03	2.29	0.002
19.337	0.000	1.34	0.03	2.25	0.002
19.465	0.000	1.32	0.03	2.21	0.002
19.593	0.000	1.30	0.03	2.17	0.002
19.722	0.000	1.28	0.03	2.14	0.002
19.850	0.000	1.26	0.02	2.10	0.002
19.978	0.000	1.24	0.02	2.07	0.002
20.107	0.000	1.22	0.02	2.04	0.002
20.235	0.000	1.20	0.02	2.01	0.002
20.363	0.000	1.19	0.02	1.99	0.002
20.492	0.000	1.17	0.02	1.96	0.002
20.620	0.000	1.16	0.02	1.94	0.002
20.748	0.000	1.14	0.02	1.91	0.002
20.877	0.000	1.13	0.02	1.89	0.002
21.005	0.000	1.12	0.02	1.87	0.002
21.133	0.000	1.11	0.02	1.85	0.002
21.262	0.000	1.09	0.02	1.83	0.002
21.390	0.000	1.08	0.02	1.81	0.002
21.518	0.000	1.07	0.02	1.79	0.002
21.647	0.000	1.06	0.02	1.77	0.002
21.775	0.000	1.05	0.02	1.75	0.002
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22.545	0.000	0.99	0.02	1.65	0.002
22.673	0.000	0.98	0.02	1.64	0.002
22.802	0.000	0.98	0.02	1.63	0.002
22.930	0.000	0.97	0.02	1.61	0.002
23.058	0.000	0.96	0.02	1.60	0.002
23.187	0.000	0.95	0.02	1.59	0.002
23.315	0.000	0.95	0.02	1.57	0.002
23.443	0.000	0.94	0.02	1.56	0.002
23.572	0.000	0.93	0.02	1.55	0.002
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Q100=9.7 cfs
D=0.83'
V=0.204 ac-ft

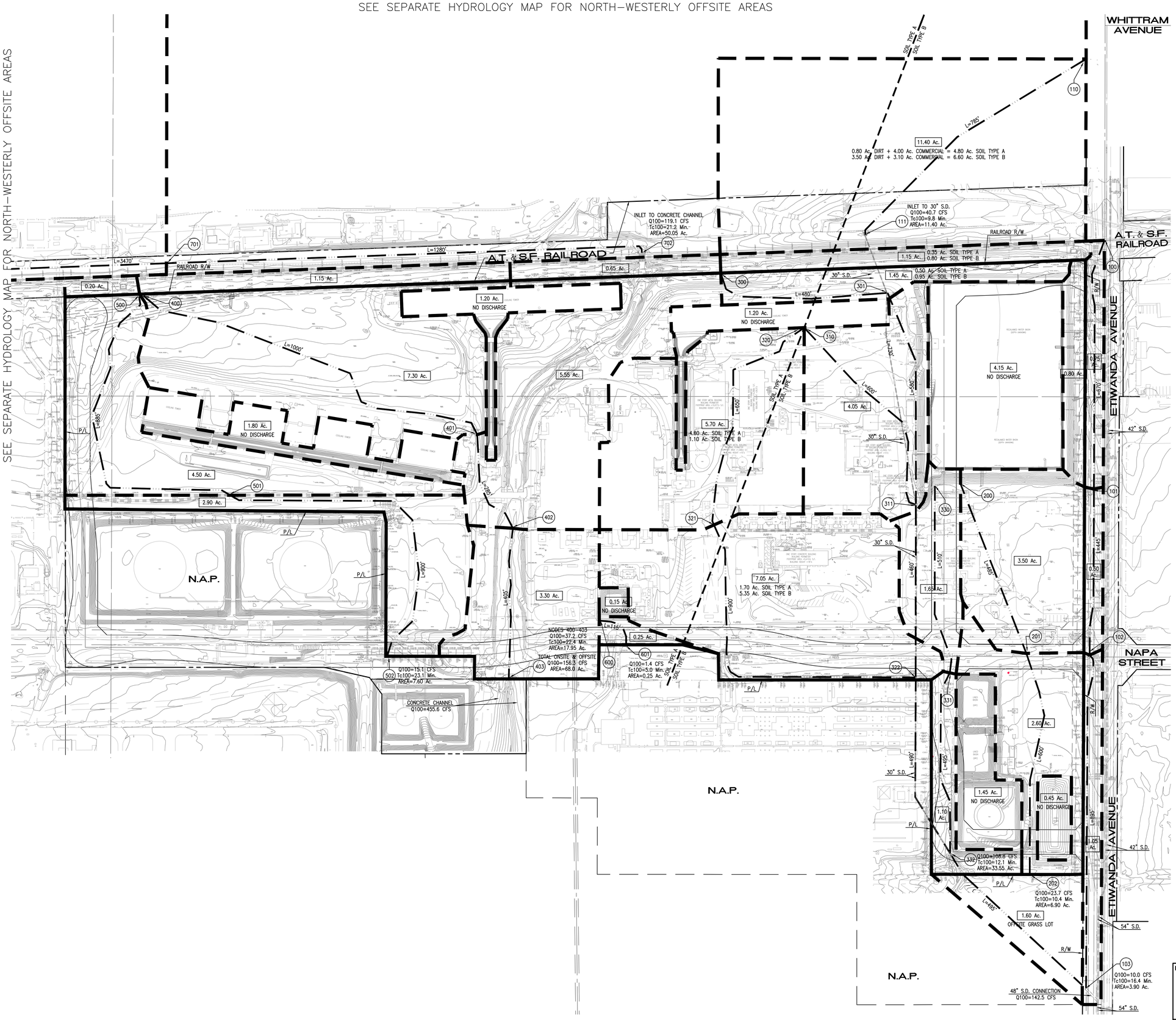
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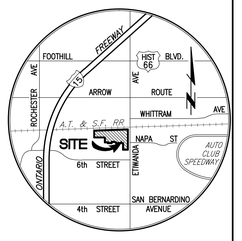
APPENDIX D

HYDROLOGY MAP

SEE SEPARATE HYDROLOGY MAP FOR NORTH–WESTERLY OFFSITE AREAS

SEE SEPARATE HYDROLOGY MAP FOR NORTH–WESTERLY OFFSITE AREAS





VICINITY MAP

NOT TO SCALE

LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- SOIL TYPE "A" / SOIL TYPE "B" — SOIL TYPE BOUNDARY
- FLOW PATH
- 1.00 AC. — SUBAREA AREA
- (100) — SUBAREA NUMBER

0 50 100 200 300

SCALE: 1"=100'

Last Update: 11/10/21
O:\3600-3699\3687\3687HYD-EX.dwg

CITY OF RANCHO CUCAMONGA
PUBLIC WORKS DEPARTMENT

EXISTING CONDITION HYDROLOGY MAP

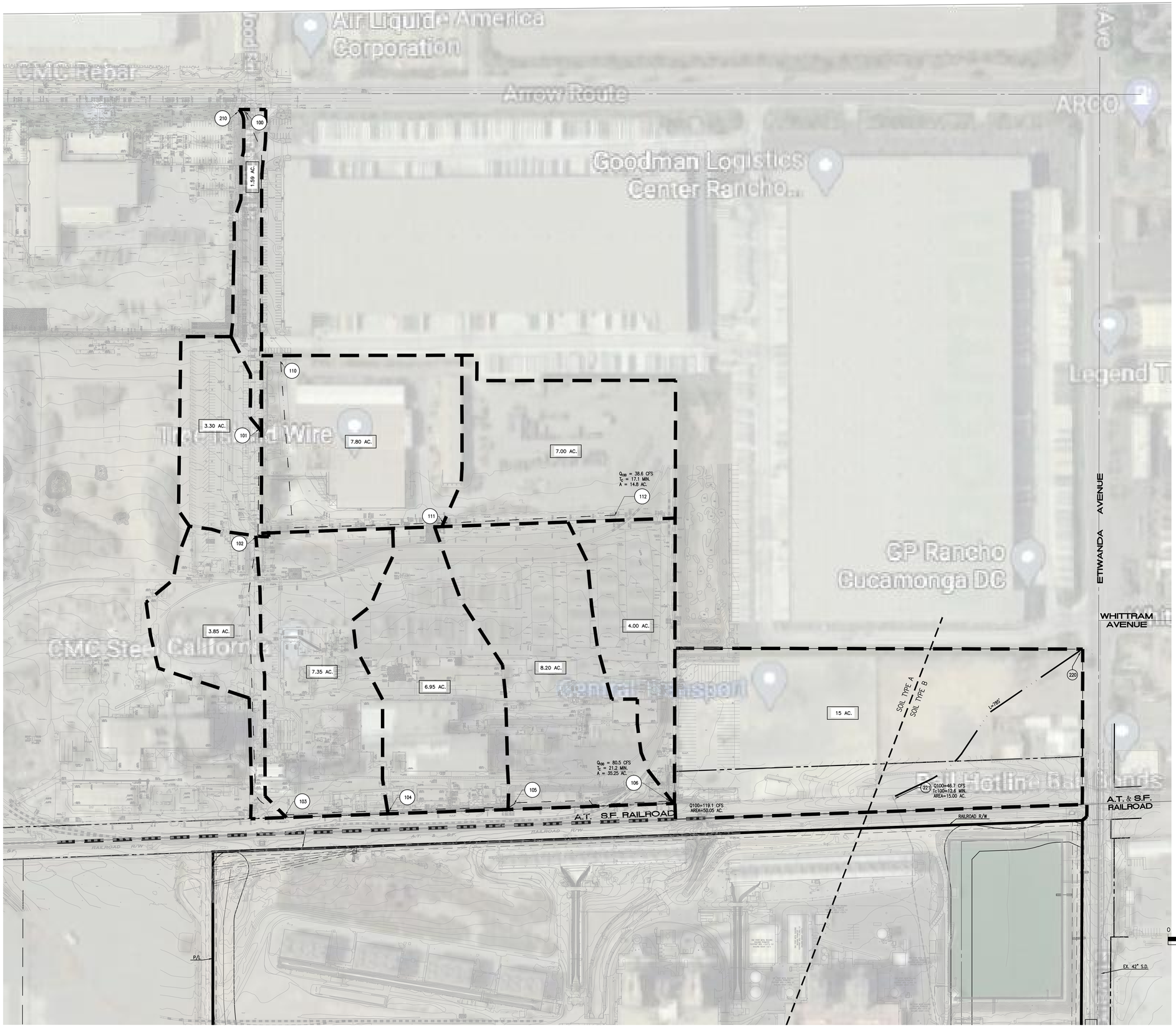
ETIWANDA DISTRIBUTION CENTER
8996 ETIWANDA AVENUE

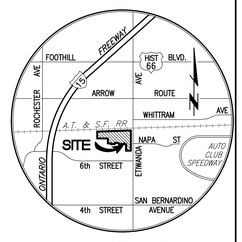
PREPARED FOR:
BTC III ETIWANDA COMMERCE CENTER
4675 MACARTHUR COURT, SUITE 625
NEWPORT BEACH, CA 92660
PHONE (949) 892-4900

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FAX:(714)521-4173

Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____
Approved by _____ Date _____
Public Works Director _____ R.C.E. XXXXX
Sheet 1 of 1 Sheets

3687/1 OF 1 SHEET





VICINITY MAP
NOT TO SCALE

LEGEND	
	PROJECT BOUNDARY
	SUBAREA BOUNDARY
SOIL TYPE "A" / SOIL TYPE "B"	SOIL TYPE BOUNDARY
	FLOW PATH
1.00 AC.	SUBAREA AREA
100	SUBAREA NUMBER
	APPROXIMATE 100-YEAR PONDING LIMIT

0 60 120 240 360
SCALE:1"=120'

Last Update:11/10/21
O:\3600-3699\3687\3687HYD-offsite.dwg

CITY OF RANCHO CUCAMONGA
PUBLIC WORKS DEPARTMENT

OFF SITE HYDROLOGY MAP

ETIWANDA DISTRICT CENTER
8996 ETIWANDA AVENUE

PREPARED FOR:
BTC III ETIWANDA COMMERCE CENTER
4675 MACARTHUR COURT, SUITE 625
NEWPORT BEACH, CA 92660
PHONE (949) 892-4900

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

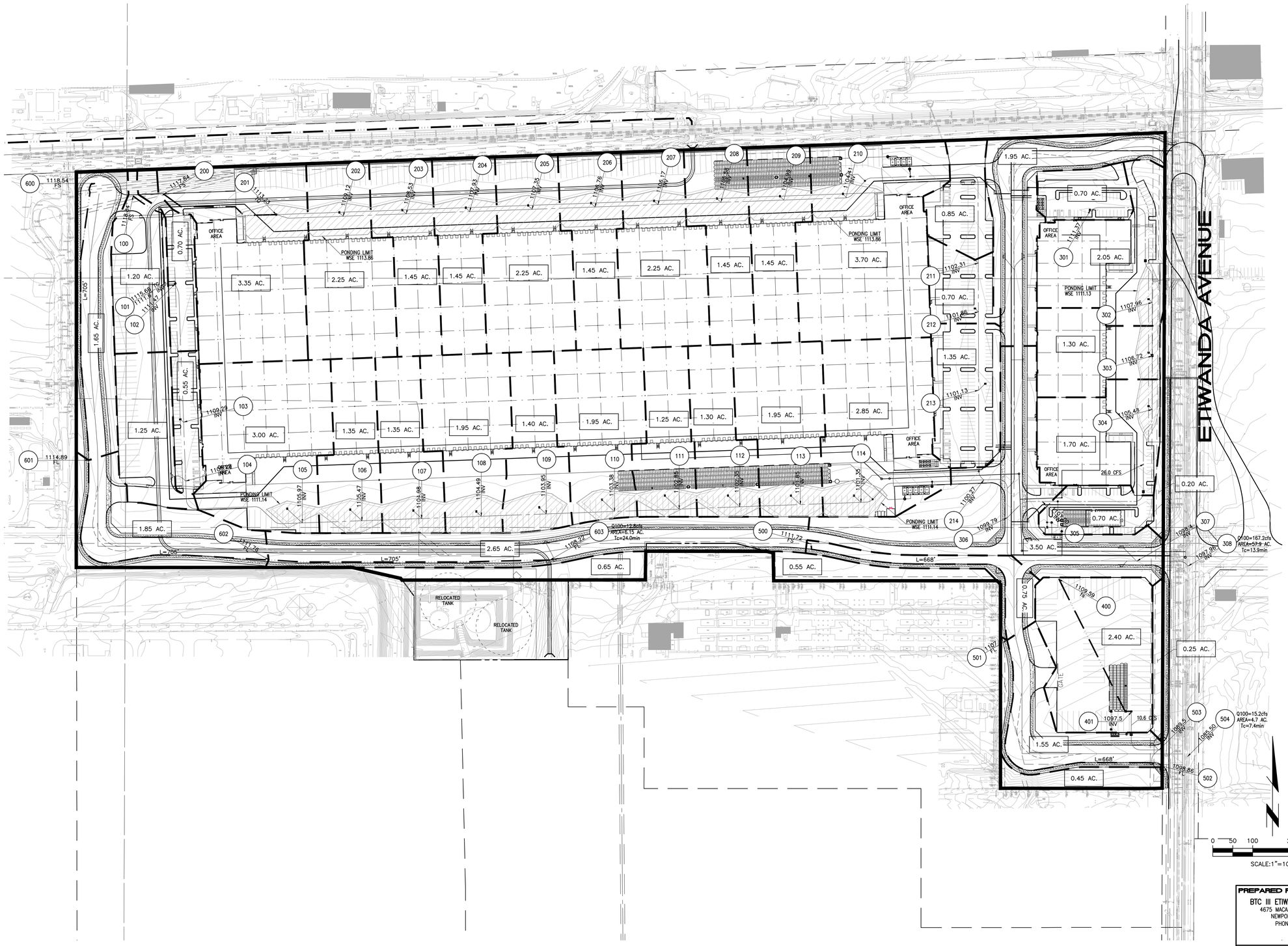
Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

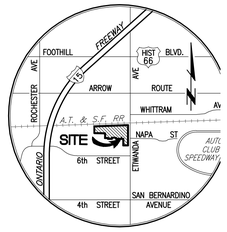
Approved by _____ Date _____
Public Works Director R.C.E. XXXXX

Sheet 1 of 1 Sheets

3687/1 OF 1 SHEET

SEE SEPARATE HYDROLOGY MAP FOR NORTH–WESTERLY OFFSITE AREAS





VICINITY MAP
NOT TO SCALE

LEGEND	
	PROJECT BOUNDARY
	SUBAREA BOUNDARY
SOIL TYPE "A" / SOIL TYPE "B"	SOIL TYPE BOUNDARY
	FLOW PATH
1.00 AC.	SUBAREA AREA
100	SUBAREA NUMBER
	APPROXIMATE 100–YEAR PONDING LIMIT

0 50 100 200 300
SCALE:1"=100'

Last Update: 11/10/21
G:\3600--3699\3687\3687HYD.dwg

CITY OF RANCHO CUCAMONGA

PROPOSED CONDITION HYDROLOGY MAP

ETIWANDA DISTRIBUTION CENTER
8996 ETIWANDA AVENUE

PREPARED FOR:
BTC III ETIWANDA COMMERCE CENTER
4675 MACARTHUR COURT, SUITE 625
NEWPORT BEACH, CA 92660
PHONE (949) 892-4900

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

1 1

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING

Preliminary
Water Quality Management Plan
(PWQMP)

For:

Etiwanda Distribution Center
8996 Etiwanda Avenue
Rancho Cucamonga, CA 91739
WQMPXXXX-XXXXX

APN: 0229-283-79 & -83

Prepared for:
BTC III Etiwanda Commerce Center
4675 Macarthur Court, Suite 625
Newport Beach, CA 92660
Phone: (949) 862-4900
Contact: Chris Sanford

Prepared by:
Thienes Engineering, Inc.
14349 Firestone Boulevard
La Mirada, CA 90638
Phone: (714) 521-4811
Contact: Luis Prado (luisp@thieneseng.com)
Job No. 3687d

Approval Date: _____
Implementation Date: _____

1st Submittal: November 10, 2021
2nd Submittal: _____
3rd Submittal: _____

Project Owner's Certification

This Water Quality Management Plan (WQMP) has been prepared for ***BTC III Etiwanda Commerce Center*** by ***Thienes Engineering, Inc***. The WQMP is intended to comply with the requirements of the ***City of Rancho Cucamonga*** and the NPDES Areawide Stormwater Program requiring the preparation of a WQMP.

The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan and will ensure that this plan is amended as appropriate to reflect up-to-date conditions on the site consistent with the San Bernardino County's Municipal Storm Water Management Program and the intent of the NPDES Permit for San Bernardino County and the incorporated cities of San Bernardino County within the Santa Ana Region. Once the undersigned transfers its interest in the property, its successors in interest and the city/county shall be notified of the transfer. The new owner will be informed of its responsibility under this WQMP. A copy of the approved WQMP shall be available on the subject site in perpetuity.

"I certify under a penalty of law that the provisions (implementation, operation, maintenance, and fund) of the WQMP have been accepted and that the plan will be transferred to future successors."

Project Data

Permit/Application Number(s):	DRC-XXXX-XXXXX	**Grading Permit Number(s):**	PGRXXXX-XXXXX
Tract/Parcel Map Number(s):		**Building Permit Number(s):**	PGRXXXX-XXXXX
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):			APN: 0229-283-79 & -83

Owner's Signature

Owner Name: BTC III Etiwanda Commerce Center

Name/Title	Chris Sanford, Senior Vice President		
Company	BTC III Etiwanda Commerce Center		
Address	4675 Macarthur Court, Suite 625, Newport Beach, CA 92660		
Email	chris.sanford@blackcreekgroup.com		
Telephone #	(949) 862-4900		
Signature		**Date**	

Preparer's Certification

Project Data			
Permit/Application Number(s):	DRC-XXXX-XXXXX	**Grading Permit Number(s):**	PGRXXXX-XXXXX
Tract/Parcel Map Number(s):		**Building Permit Number(s):**	PGRXXXX-XXXXX
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):			APN: 0229-283-79 & -83

"The selection, sizing and design of stormwater treatment and other stormwater quality and quantity control measures in this plan were prepared under my oversight and meet the requirements of Regional Water Quality Control Board Order No. R8-2010-0036."

Engineer: Reinhard Stenzel	
Title	Director of Engineering
Company	Thienes Engineering, Inc.
Address	14349 Firestone Boulevard, La Mirada, CA 90638
Email	reinhard@thieneseng.com
Telephone #	(714) 521-4811
Signature	
Date	11/10/2021

PE Stamp Below



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Section 1 Discretionary Permit(s)

Form 1-1 Project Information					
Project Name	Etiwanda Distribution Center				
Project Owner Contact Name:	Chris Sanford				
Mailing Address:	4675 MacArthur Court, Suite 625 Newport Beach, CA 92660	**E-mail Address:**	chris.sanford@blackcreekgroup.com	**Telephone:**	(949) 862-4900
Permit/Application Number(s):	DRC-XXXX-XXXXX PGRXXXX-XXXXX WQMPXXXX-XXXXX		**Tract/Parcel Map Number(s):**		
Additional Information/ Comments:	n/a				
Description of Project:	The project site encompasses approximately 70.85 acres, where 61.60 includes of onsite improvements and 9.25 acres of new public roads (Streets "A" and "B"). Proposed onsite improvements include two industrial buildings of 1,013,815 square feet (Building 1) and 127,343 square feet (Building 2) and a trailer parking lot. There will be truck yards on the north and south sides of Building 1 and along the east side of Building 2. Vehicle parking and landscape will be scattered throughout the site. The southeast lot will be utilized as trailer parking. A proposed 3'H x 8'W reinforced concrete box (RCB) is proposed to carry offsite flows from north to south. A separate storm drain system is proposed to convey project flows towards the east and make two connections to the existing storm drain in Etiwanda Avenue. Runoff from the westerly truck yard and vehicle parking lot west of Building 1 will surface drain to series of catch basins and be added to a private storm drain (Line A). The storm drain will travel southerly then turn easterly through the southern truck yard. A series of low points with catch basins will collect the runoff from the southerly half of the building and the truck yard. The storm drain will continue easterly and connect to the proposed public storm drain in "B" Street. The northerly half of Building 1 and the northerly truck yard will drain to a series of low points with catch basins within the truck yard. A private storm drain (Line B) will convey the runoff easterly then turn southerly through the easterly vehicle parking lot. Runoff from the vehicle parking lot will be collected and added to Line B. Line B will confluence with Line A prior to discharging into the storm drain in "B" Street. Runoff from Building 2, the northerly vehicle parking lot, and the truck yard will drain to a series of low points with catch basins. A private storm drain (Line C) will convey this runoff southerly through the easterly truck yard then turn westerly. The southerly vehicle parking lot will drain to a catch basin then connect to Line C. The storm drain will confluence with the storm drain in "B" Street and continue southerly. The storm drain in "B" Street will collect runoff from the proposed streets prior to turning east in "A" Street and discharging into the existing 42" public storm drain in Etiwanda Avenue. Runoff from the southeasterly truck yard and portions of the street are also tributary to the existing 42" storm drain in Etiwanda Avenue. A private storm drain will collect runoff from a catch basin in the truck yard and the street flows and convey it to the existing drain. Per the Phase I Environmental Site Assessment (ESA) excerpt provided in Attachment K, the site consists of structures that are part of a decommissioned electric power generating facility, known as the Etiwanda Generating Station, including buildings, power generating units, cooling towers and retention basins/ponds. A 2019 investigation revealed that soil and soil gas samples collected in several locations contained concentrations of chemicals above human health and/or disposal criteria. Under these conditions, infiltration is not recommended. Instead, treatment will be provided via underground detention systems, proprietary biofiltration units (volume-based				

	biotreatment BMPs) and hydrodynamic separators/drain inserts for pretreatment. Approximately 5.95 acres (DA 4) from the landscaping throughout the project site will sheet flow offsite without being routed to the LID BMPs. These areas are considered self-treating. Lastly, the project site will also utilize the MEP principle in order to treat disturbed Public Right-of-Way (ROW) impervious areas onsite. This area is approximately 9.25 acres and is included along with the onsite DCV.
Provide summary of Conceptual WQMP conditions (if previously submitted and approved). Attach complete copy.	

Section 2 Project Description

2.1 Project Information

This section of the WQMP should provide the information listed below. The information provided for Conceptual/ Preliminary WQMP should give sufficient detail to identify the major proposed site design and LID BMPs and other anticipated water quality features that impact site planning. Final Project WQMP must specifically identify all BMP incorporated into the final site design and provide other detailed information as described herein.

The purpose of this information is to help determine the applicable development category, pollutants of concern, watershed description, and long term maintenance responsibilities for the project, and any applicable water quality credits. This information will be used in conjunction with the information in Section 3, Site Description, to establish the performance criteria and to select the LID BMP or other BMP for the project or other alternative programs that the project will participate in, which are described in Section 4.

Form 2.1-1 Description of Proposed Project

[1] Development Category (Select all that apply):

☒ Significant re-development involving the addition or replacement of 5,000 ft^2 or more of impervious surface on an already developed site	☐ New development involving the creation of 10,000 ft^2 or more of impervious surface collectively over entire site	☐ Automotive repair shops with standard industrial classification (SIC) codes 5013, 5014, 5541, 7532- 7534, 7536-7539	☐ Restaurants (with SIC code 5812) where the land area of development is 5,000 ft^2 or more
☐ Hillside developments of 5,000 ft^2 or more which are located on areas with known erosive soil conditions or where the natural slope is 25 percent or more	☐ Developments of 2,500 ft^2 of impervious surface or more adjacent to (within 200 ft) or discharging directly into environmentally sensitive areas or waterbodies listed on the CWA Section 303(d) list of impaired waters.	☒ Parking lots of 5,000 ft^2 or more exposed to storm water	☐ Retail gasoline outlets that are either 5,000 ft^2 or more, or have a projected average daily traffic of 100 or more vehicles per day

☐ Non-Priority / Non-Category Project

May require source control LID BMPs and other LIP requirements. Please consult with local jurisdiction on specific requirements.

[2] Project Area (ft^2):	3,086,226 sq-ft 70.85 acres*	**[3] Number of Dwelling Units:**	n/a	**[4] SIC Code:**	4225

[5] Is Project going to be phased? ☐Yes ☒No

If yes, ensure that the WQMP evaluates each phase as a distinct DA, requiring LID BMPs to address runoff at time of completion.

[6] Does Project include roads? ☒Yes ☐No

If yes, ensure that applicable requirements for transportation projects are addressed (see Appendix A of TGD for WQMP)

* This includes approximately 9.25 acres of offsite improvements (Streets “A” and “B”).

2.2 Property Ownership/Management

Describe the ownership/management of all portions of the project and site. State whether any infrastructure will transfer to public agencies (City, County, Caltrans, etc.) after project completion. State if a homeowners or property owners association will be formed and be responsible for the long-term maintenance of project stormwater facilities. Describe any lot-level stormwater features that will be the responsibility of individual property owners.

Form 2.2-1 Property Ownership/Management

Describe property ownership/management responsible for long-term maintenance of WQMP stormwater facilities:

BTC III Etiwanda Commerce Center
4675 Macarthur Court, Suite 625
Newport Beach, CA 92660
Phone: (949) 862-4900
Contact: Chris Sanford

No infrastructure will be transferred to a public agency after project completion.
A property owner's association (POA) will be formed for long-term maintenance of project stormwater facilities.

2.3 Potential Stormwater Pollutants

Determine and describe expected stormwater pollutants of concern based on land uses and site activities (refer to Table 3-3 in the TGD for WQMP).

Form 2.3-1 Pollutants of Concern

Pollutant	Please check: E=Expected, N=Not Expected		Additional Information and Comments
Pathogens (Bacterial / Virus)	E ☒	N ☐	Including petroleum hydrocarbons. Bacterial indicators are routinely detected in pavement runoff.
Nutrients - Phosphorous	E ☒	N ☐	Expected pollutant if landscaping exists on-site.
Nutrients - Nitrogen	E ☒	N ☐	Expected pollutant if landscaping exists on-site.
Noxious Aquatic Plants	E ☒	N ☐	Expected pollutant if landscaping exists on-site.
Sediment / TSS / pH	E ☒	N ☐	Expected pollutant if landscaping exists on-site.
Metals	E ☒	N ☐	Expected pollutant if parking lots exist on-site.
Oil and Grease	E ☒	N ☐	Expected pollutant if parking lots exist on-site.
Trash & Debris	E ☒	N ☐	Expected pollutant if landscaping and parking lots exists on-site.
Pesticides / Herbicides	E ☒	N ☐	Expected pollutant if landscaping exists on-site.
Organic Compounds	E ☒	N ☐	Expected pollutant if landscaping exists on-site. Including solvents. Bacterial indicators are routinely detected in pavement runoff.
Oxygen Demanding Compounds	E ☒	N ☐	Expected pollutant if landscaping exists on-site.
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	

The expected POCs for the project site are ***Pathogens, Nutrients, and Metals***.

2.4 Water Quality Credits

A water quality credit program is applicable for certain types of development projects if it is not feasible to meet the requirements for on-site LID. Proponents for eligible projects, as described below, can apply for water quality credits that would reduce project obligations for selecting and sizing other treatment BMP or participating in other alternative compliance programs. Refer to Section 6.2 in the TGD for WQMP to determine if water quality credits are applicable for the project.

Form 2.4-1 Water Quality Credits

[1] **Project Types that Qualify for Water Quality Credits:** *Select all that apply*			
☐ Redevelopment projects that reduce the overall impervious footprint of the project site. [Credit = % impervious reduced]	Higher density development projects ☐ Vertical density [20%] ☐ 7 units/ acre [5%]	☐ Mixed use development, (combination of residential, commercial, industrial, office, institutional, or other land uses which incorporate design principles that demonstrate environmental benefits not realized through single use projects) [20%]	☐ Brownfield redevelopment (redevelop real property complicated by presence or potential of hazardous contaminants) [25%]
☐ Redevelopment projects in established historic district, historic preservation area, or similar significant core city center areas [10%]	☐ Transit-oriented developments (mixed use residential or commercial area designed to maximize access to public transportation) [20%]	☐ In-fill projects (conversion of empty lots & other underused spaces < 5 acres, substantially surrounded by urban land uses, into more beneficially used spaces, such as residential or commercial areas) [10%]	☐ Live-Work developments (variety of developments designed to support residential and vocational needs) [20%]
[2] **Total Credit %:** n/a *(Total all credit percentages up to a maximum allowable credit of 50 percent)*			
Description of Water Quality Credit Eligibility (if applicable)	n/a		

The proposed project will ***not*** utilize any water quality credits.

Section 3 Site and Watershed Description

Describe the project site conditions that will facilitate the selection of BMP through an analysis of the physical conditions and limitations of the site and its receiving waters. Identify distinct drainage areas (DA) that collect flow from a portion of the site and describe how runoff from each DA (and sub-watershed DMAs) is conveyed to the site outlet(s). Refer to Section 3.2 in the TGD for WQMP. Complete form 3.2 for each DA on the project site.

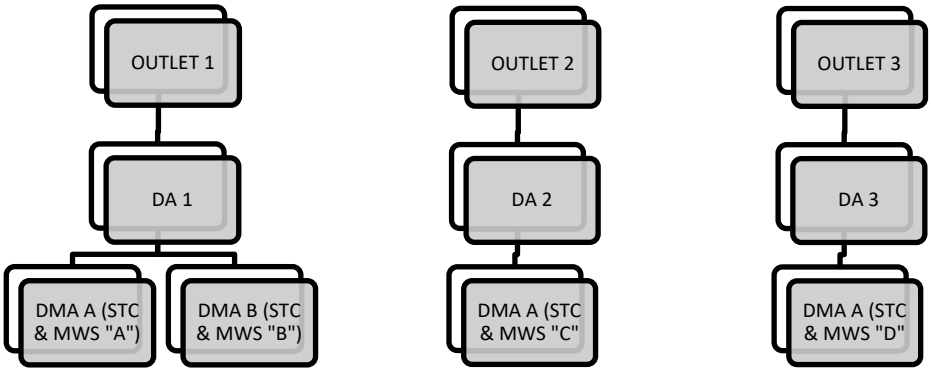
Form 3-1 Site Location and Hydrologic Features

Site coordinates *Take GPS measurement at approximate center of site*	**Latitude:** 34.091404	**Longitude:** -117.52738	**Thomas Bros Map page:** Page 603

[1] San Bernardino County climatic region: ☒Valley ☐Mountain ☐Desert

[2] Does the site have more than one drainage area (DA): ☒Yes ☐No

If no, proceed to Form 3-2. If yes, then use this form to show a conceptual schematic describing DMAs and hydrologic feature connecting DMAs to the site outlet(s). An example is provided below that can be modified for proposed project or a drawing clearly showing DMA and flow routing may be attached.



Conveyance	*Briefly describe on-site drainage features to convey runoff that is not retained within a DMA*
DA 1 DMA A flows to Outlet 1	Prior to runoff discharging to the existing public storm drain in Etiwanda Avenue, the low flows from DA 1 DMA A will be directed to a set of underground detention chambers and a proprietary biofiltration system for biotreatment (STC & MWS "A"). DA 1 DMA A includes ROW improvements from "B" Street.
DA 1 DMA B flows to Outlet 1	Prior to runoff discharging to the existing public storm drain in Etiwanda Avenue, the low flows from DA 1 DMA B will be directed to a set of underground detention chambers and a proprietary biofiltration system for biotreatment (STC & MWS "B"). DA 1 DMA B includes ROW improvements from "A" Street.
DA 2 DMA A flows to Outlet 2	Prior to runoff discharging to the existing public storm drain in Etiwanda Avenue, the low flows from DA 2 DMA A will be directed to a set of underground detention chambers and a proprietary biofiltration system for biotreatment (STC & MWS "C").
DA 3 DMA A flows to Outlet 3	Prior to runoff discharging to the existing public storm drain in Etiwanda Avenue, the low flows from DA 3 DMA A will be directed to a set of underground detention chambers and a proprietary biofiltration system for biotreatment (STC & MWS "B"). DA 3 DMA A includes ROW improvements from "A" and "B" Street.

Form 3-2 Existing Hydrologic Characteristics for Drainage Area (DA)

For each drainage area's sub-watershed DMA, provide the following characteristics	DMA A Hydrology Nodes (200-202)	DMA B Hydrology Nodes (300-332)	DMA C Hydrology Nodes (400-403)	DMA D Hydrology Nodes (500-502)	DMA E Hydrology Nodes (600-601)
[1] **DMA drainage area (ft^2)**	564,102 (12.95 ac)	971,388 (22.30 ac)	836,352 (19.20 ac)	696,960 (16.00 ac)	17,424 (0.40 ac)
[2] **Existing site impervious area (ft^2)**	81,606	638,056	483,959	3959,806	0
[3] **Antecedent moisture condition** *For desert areas, use http://www.sbcounty.gov/dpw/floodcontrol/pdf/20100412_map.pdf*	AMC II	AMC II	AMC II	AMC II	AMC II
[4] **Hydrologic soil group** *Refer to Watershed Mapping Tool – http://sbcounty.permitrack.com/WAP*	HSG B	HSG A & B	HSG A	HSG A	HSG A
[5] **Longest flowpath length (ft)**	1,085	2,010	1,690	1,785	115
[6] **Longest flowpath slope (ft/ft)**	0.0154	0.0167	0.0134	0.0105	0.5139
[7] **Current land cover type(s)** *Select from Fig C-3 of Hydrology Manual*	Barren Commercial	Barren Commercial	Barren Commercial	Barren Commercial	Barren Commercial
[8] **Pre-developed pervious area condition:** *Based on the extent of wet season vegetated cover good >75%; Fair 50-75%; Poor <50% See Attachment A for photos of site to support rating*	Poor and Paved	Poor and Paved	Poor and Paved	Poor and Paved	Poor and Paved

Form 3-3 Watershed Description

Receiving Waters *Refer to Watershed Mapping Tool - http://sbcounty.permitrack.com/WAP See 'Drainage Facilities" link at this website*	Day Creek Cucamonga Creek, Reach 1 Mill Creek (Prado Area) Chino Creek, Reach 1A Santa Ana River, Reach 3 Prado Dam Santa Ana River, Reach 2 Santa Ana River, Reach 1 Pacific Ocean
Applicable TMDLs *Refer to Local Implementation Plan*	Day Creek: None Cucamonga Creek, Reach 1: High Coliform Count Mill Creek (Prado Area): Pathogens Chino Creek, Reach 1A: Pathogens Santa Ana River, Reach 3: Pathogens and Nitrate Prado Dam: Pathogens Santa Ana River, Reach 2: None Santa Ana River, Reach 1: None Pacific Ocean: None
303(d) listed impairments *Refer to Local Implementation Plan and Watershed Mapping Tool – http://sbcounty.permitrack.com/WAP and State Water Resources Control Board website – http://www.waterboards.ca.gov/santaana/water_iss ues/programs/tmdl/index.shtml*	Day Creek: None Cucamonga Creek, Reach 1: Cadmium, Copper, Lead, and Zinc Mill Creek (Prado Area): Indicator Bacteria, Nutrients and Total Suspended Solids (TSS) Chino Creek, Reach 1A: Indicator Bacteria, and Nutrients Santa Ana River, Reach 3: Copper, Indicator Bacteria and Lead Prado Dam: pH Santa Ana River, Reach 2: None Santa Ana River, Reach 1: None Pacific Ocean: None
Environmentally Sensitive Areas (ESA) *Refer to Watershed Mapping Tool – http://sbcounty.permitrack.com/WAP*	n/a
Unlined Downstream Water Bodies *Refer to Watershed Mapping Tool – http://sbcounty.permitrack.com/WAP*	Santa Ana River
Hydrologic Conditions of Concern	☐ Yes *Complete Hydrologic Conditions of Concern (HCOC) Assessment. Include Forms 4.2-2 through Form 4.2-5 and Hydromodification BMP Form 4.3-10 in submittal* ☒ No
Watershed–based BMP included in a RWQCB approved WAP	☐ Yes *Attach verification of regional BMP evaluation criteria in WAP* • *More Effective than On-site LID* • *Remaining Capacity for Project DCV* • *Upstream of any Water of the US* • *Operational at Project Completion* • *Long-Term Maintenance Plan* ☒ No

Section 4 Best Management Practices (BMP)

4.1 Source Control BMP

4.1.1 Pollution Prevention

Non-structural and structural source control BMP are required to be incorporated into all new development and significant redevelopment projects. Form 4.1-1 and 4.1-2 are used to describe specific source control BMPs used in the WQMP or to explain why a certain BMP is not applicable. Table 7-3 of the TGD for WQMP provides a list of applicable source control BMP for projects with specific types of potential pollutant sources or activities. The source control BMP in this table must be implemented for projects with these specific types of potential pollutant sources or activities.

The preparers of this WQMP have reviewed the source control BMP requirements for new development and significant redevelopment projects. The preparers have also reviewed the specific BMP required for project as specified in Forms 4.1-1 and 4.1-2. All applicable non-structural and structural source control BMP shall be implemented in the project.

Form 4.1-1 Non-Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
N1	Education of Property Owners, Tenants and Occupants on Stormwater BMPs	☒	☐	Property owner will familiarize him/herself with the educational materials in Attachment "E" and the contents of the WQMP.
N2	Activity Restrictions	☒	☐	The owner shall develop ongoing activity restrictions that include those that have the potential to create adverse impacts on water quality. Activities include, but are not limited to: handling and disposal of contaminants, fertilizer and pesticide application restrictions, litter control and pick-up, and vehicle or equipment repair as well as any other activities that may potentially contribute to water pollution. Refer to Attachment J.
N3	Landscape Management BMPs	☒	☐	Irrigation must be consistent with City's Water Conservation Ordinance. Fertilizer and pesticide usage will be consistent with County Management Guidelines for Use of Fertilizers and Pesticides.
N4	BMP Maintenance	☒	☐	BMP maintenance, implementation schedules, and responsible parties are included with each specific BMP narrative.
N5	Title 22 CCR Compliance (How development will comply)	☐	☒	No hazardous materials anticipated outdoors. WQMP to be amended if hazardous materials become applicable.
N6	Local Water Quality Ordinances	☒	☐	Owner/tenant will comply with Local Water Ordinances.
N7	Spill Contingency Plan	☒	☐	Owner/tenant will have a spill contingency plan, a separate document, based on specific site needs.
N8	Underground Storage Tank Compliance	☐	☒	No USTs onsite.
N9	Hazardous Materials Disclosure Compliance	☐	☒	No hazardous materials anticipated outdoors. WQMP to be amended if hazardous materials become applicable.
N10	Uniform Fire Code Implementation	☒	☐	If applicable, owner will comply with Article 80 of the California Fire Code enforced by the fire protection agency. The facility operators will be educated annually regarding requirements for handling, storage and proper disposal of hazardous substances.
N11	Litter/Debris Control Program	☒	☐	Contract with their landscape maintenance firm to provide this service during regularly schedule maintenance. They are required to implement trash management and litter control procedures in the common areas aimed at reducing pollution of drainage water.
N12	Employee Training	☒	☐	The owner will ensure that tenants are also familiar with onsite BMPs and necessary maintenance required of the tenants. Owner will check with City and County at least once a year to obtain new or updated educational materials and provide these materials to tenants. Employees shall be trained to clean up spills and participate in ongoing maintenance. The WQMP requires annual employee training and new hires within 2 months.

Form 4.1-1 Non-Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
N13	Housekeeping of Loading Docks	☒	☐	Keep all fluids indoors. Clean up spills immediately and keep spills from entering storm drain system. No direct discharges into the storm drain system. Area shall be inspected weekly for proper containment and practices with spills cleaned up immediately and disposed of properly.
N14	Catch Basin Inspection Program	☒	☐	Monthly inspection by property owner's designee. Inspection consists of immediate repair of any deterioration of the structures and maintenance of drain inserts before and after major rain events. Drain insert maintenance shall be per manufacturer's guidelines.
N15	Vacuum Sweeping of Private Streets and Parking Lots	☒	☐	All landscape maintenance contractors will be required to sweep up all landscape cuttings, mowings and fertilizer materials off paved areas weekly and dispose of properly. Parking areas and drive ways will be swept monthly by sweeping contractor.
N16	Other Non-structural Measures for Public Agency Projects	☐	☒	Not a public agency project.
N17	Comply with all other applicable NDPES permits	☒	☐	Will comply with Construction General Permit and Industrial General Permit (may apply for No Exposure Certification/NEC).

Form 4.1-2 Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
S1	Provide storm drain system stenciling and signage (CASQA New Development BMP Handbook SD-13)	☒	☐	"No Dumping – Drains to Waterway" stencils will be applied. Legibility of stencil will be maintained on a yearly basis.
S2	Design and construct outdoor material storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-34)	☐	☒	No outdoor material storage areas onsite.
S3	Design and construct trash and waste storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-32)	☒	☐	Paved with an impervious surface, designed not to allow run-on from adjoining areas, designed to divert drainage from adjoining roofs and pavements diverted around the area, screened or walled to prevent off-site transport of trash. A trash enclosure detail is provided within the Site and Drainage Map.
S4	Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control (Statewide Model Landscape Ordinance; CASQA New Development BMP Handbook SD-12)	☒	☐	Irrigation systems shall include reducers or shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines. Timers will be used to avoid over watering and watering cycles and duration shall be adjusted seasonally by the landscape maintenance contractor. The landscaping areas will be grouped with plants that have similar water requirements. Native or drought tolerant species shall also be used where appropriate to reduce excess irrigation runoff and promote surface filtration.
S5	Finish grade of landscaped areas at a minimum of 1-2 inches below top of curb, sidewalk, or pavement	☐	☒	Stormwater runoff from all impervious areas will drain into the proposed LID BMPs for treatment.
S6	Protect slopes and channels and provide energy dissipation (CASQA New Development BMP Handbook SD-10)	☐	☒	No channels to protect.
S7	Covered dock areas (CASQA New Development BMP Handbook SD-31)	☐	☒	No applicable.
S8	Covered maintenance bays with spill containment plans (CASQA New Development BMP Handbook SD-31)	☐	☒	No maintenance bays onsite.
S9	Vehicle wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)	☐	☒	No vehicle wash areas onsite.
S10	Covered outdoor processing areas (CASQA New Development BMP Handbook SD-36)	☐	☒	No outdoor processing areas onsite.

Form 4.1-2 Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
S11	Equipment wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)	☐	☒	No equipment wash areas onsite.
S12	Fueling areas (CASQA New Development BMP Handbook SD-30)	☐	☒	No fueling areas onsite.
S13	Hillside landscaping (CASQA New Development BMP Handbook SD-10)	☐	☒	No hillsides onsite.
S14	Wash water control for food preparation areas	☐	☒	No food preparation onsite.
S15	Community car wash racks (CASQA New Development BMP Handbook SD-33)	☐	☒	No community cars wash racks onsite.

4.1.2 Preventive LID Site Design Practices

Site design practices associated with new LID requirements in the MS4 Permit should be considered in the earliest phases of a project. Preventative site design practices can result in smaller DCV for LID BMP and hydromodification control BMP by reducing runoff generation. Describe site design and drainage plan including:

- A narrative of site design practices utilized or rationale for not using practices
- A narrative of how site plan incorporates preventive site design practices
- Include an attached Site Plan layout which shows how preventative site design practices are included in WQMP

Refer to Section 5.2 of the TGD for WQMP for more details.

Form 4.1-3 Preventive LID Site Design Practices Checklist

Site Design Practices *If yes, explain how preventative site design practice is addressed in project site plan. If no, other LID BMPs must be selected to meet targets.*
Minimize impervious areas: ☐ Yes ☒ No Explanation: The project will utilize biotreatment BMPs to collect runoff from impervious areas. Roads and sidewalk widths are reduced to the City standards.
Maximize natural infiltration capacity: ☐ Yes ☒ No Explanation: Due to the environmental conditions of the site, infiltration is not recommended.
Preserve existing drainage patterns and time of concentration: ☒ Yes ☐ No Explanation: Post-development drainage patterns will mimic pre-development conditions. Stormwater will be detained in biotreatment BMPs and mimic the time of concentration compared to existing condition.
Disconnect impervious areas: ☒ Yes ☐ No Explanation: The biotreatment BMPs will disconnect impervious areas before discharging offsite.
Protect existing vegetation and sensitive areas: ☐ Yes ☒ No Explanation: Not applicable, there is no existing vegetation onsite (see Attachment A for recent site photos). The site is being developed into a light industrial facility. There are no sensitive areas to protect. Landscape will be provided throughout the site.
Re-vegetate disturbed areas: ☐ Yes ☒ No Explanation: Not applicable, development consists of two light-industrial warehouses. Most of the disturbed areas will be paved; however, all disturbed areas will be collected by the biotreatment BMPs for treatment. Landscape will be provided throughout the site.
Minimize unnecessary compaction in stormwater retention/infiltration basin/trench areas: ☒ Yes ☐ No Explanation: Heavy construction vehicles will be prohibited from performing unnecessary soil compaction at the locations of the underground detention chambers.
Utilize vegetated drainage swales in place of underground piping or imperviously lined swales: ☐ Yes ☒ No Explanation: Underground piping and imperviously lined swales are located at truck loading areas that could not be substituted with vegetated swales. All Imperviously lined swales will be taken to the biotreatment BMPs for treatment.
Stake off areas that will be used for landscaping to minimize compaction during construction : ☒ Yes ☐ No Explanation: Landscaped areas (not located in the compacted building zone area) will be staked to minimize unnecessary compaction during construction. Material storage areas and stockpiles will be located on areas being developed into a parking lot. Access routes for heavy equipment will be located around BMP locations.

4.2 Project Performance Criteria

The purpose of this section of the Project WQMP is to establish targets for post development hydrology based on performance criteria specified in the MS4 Permit. These targets include runoff volume for water quality control (referred to as LID design capture volume), and runoff volume, time of concentration, and peak runoff for protection of any downstream waterbody segments with a HCOC. ***If the project has more than one outlet for stormwater runoff, then complete additional versions of these forms for each DA / outlet.***

Methods applied in the following forms include:

- For LID BMP Design Capture Volume (DCV), the San Bernardino County Stormwater Program requires use of the P6 method (MS4 Permit Section XI.D.6a.ii) – Form 4.2-1
- For HCOC pre- and post-development hydrologic calculation, the San Bernardino County Stormwater Program requires the use of the Rational Method (San Bernardino County Hydrology Manual Section D). Forms 4.2-2 through Form 4.2-5 calculate hydrologic variables including runoff volume, time of concentration, and peak runoff from the project site pre- and post-development using the Hydrology Manual Rational Method approach. For projects greater than 640 acres (1.0 mi2), the Rational Method and these forms should not be used. For such projects, the Unit Hydrograph Method (San Bernardino County Hydrology Manual Section E) shall be applied for hydrologic calculations for HCOC performance criteria.

Refer to Section 4 in the TGD for WQMP for detailed guidance and instructions.

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume (DA 1)

[1] **Project area (ft^2):** 916,938 (DMA A – 21.05 ac)	[2] **Imperviousness after applying preventative site design practices (Imp%):** 100%	[3] **Runoff Coefficient (R_c):** 0.892 $R_C = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$
[4] **Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in):** 0.526 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html		
[5] **Compute P6, Mean 6-hr Precipitation (inches):** 0.779 *P6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1* *(Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*		
[6] **Drawdown Rate** *Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.*		24-hrs ☐ 48-hrs ☒
[7] **Compute design capture volume, DCV (ft^3):** 104,207 *DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)* *Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2*		
[1] **Project area (ft^2):** 89,298 (DMA A - ROW – 2.05 ac)	[2] **Imperviousness after applying preventative site design practices (Imp%):** 100%	[3] **Runoff Coefficient (R_c):** 0.892 $R_C = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$
[4] **Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in):** 0.526 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html		

[5] Compute P6, Mean 6-hr Precipitation (inches): 0.779

*P6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1*

(Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)

[6] Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐
48-hrs ☒

[7] Compute design capture volume, DCV (ft^3): 10,148

*DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)*

Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2

[1] Project area (ft^2): 1,086,822 (DMA B – 24.95 ac)	**[2] Imperviousness after applying preventative site design practices (Imp%):** 95%	**[3] Runoff Coefficient (R_c):** 0.807 $R_C = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

[4] Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.526
http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

[5] Compute P6, Mean 6-hr Precipitation (inches): 0.779

*P6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1*

(Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)

[6] Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐
48-hrs ☒

[7] Compute design capture volume, DCV (ft^3): 111,741

*DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)*

Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2

[1] Project area (ft^2): 217,800 (DMA B - ROW – 5.00 ac)	**[2] Imperviousness after applying preventative site design practices (Imp%):** 100%	**[3] Runoff Coefficient (R_c):** 0.892 $R_C = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

[4] Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.526
http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

[5] Compute P6, Mean 6-hr Precipitation (inches): 0.779

*P6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1*

(Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)

[6] Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐
48-hrs ☒

[7] Compute design capture volume, DCV (ft^3): 24,752

*DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)*

Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume (DA 2)

[1] **Project area (ft²):** 280,962 (DMA A – 6.45 ac)	[2] **Imperviousness after applying preventative site design practices (Imp%):** 95%	[3] **Runoff Coefficient (R_c):** 0.807 $R_C = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$
[4] **Determine 1-hour rainfall depth for a 2-year return period $P_{2yr-1hr}$ (in):** 0.526 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html		
[5] **Compute P6, Mean 6-hr Precipitation (inches):** 0.779 *P6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1* *(Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*		
[6] **Drawdown Rate** *Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.*		24-hrs ☐ 48-hrs ☒
[7] **Compute design capture volume, DCV (ft³):** 28,887 *DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)* *Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2*		

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume (DA 3)

[1] **Project area (ft²):** 139,392 (DMA A – 3.20 ac)	[2] **Imperviousness after applying preventative site design practices (Imp%):** 95%	[3] **Runoff Coefficient (R_c):** 0.807 $R_C = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$
[4] **Determine 1-hour rainfall depth for a 2-year return period $P_{2yr-1hr}$ (in):** 0.526 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html		
[5] **Compute P6, Mean 6-hr Precipitation (inches):** 0.779 *P6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1* *(Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*		
[6] **Drawdown Rate** *Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.*		24-hrs ☐ 48-hrs ☒
[7] **Compute design capture volume, DCV (ft³):** 14,331 *DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)* *Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2*		
[1] **Project area (ft²):** 95,832 (DMA A - ROW – 2.20 ac)	[2] **Imperviousness after applying preventative site design practices (Imp%):** 95%	[3] **Runoff Coefficient (R_c):** 0.807 $R_C = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$
[4] **Determine 1-hour rainfall depth for a 2-year return period $P_{2yr-1hr}$ (in):** 0.526 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html		
[5] **Compute P6, Mean 6-hr Precipitation (inches):** 0.779 *P6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1* *(Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*		

[6] Drawdown Rate *Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.*	24-hrs ☐ 48-hrs ☒
[7] Compute design capture volume, DCV (ft^3): 10,891 *DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)* *Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2*	

Form 4.2-2 Summary of HCOC Assessment

Does project have the potential to cause or contribute to an HCOC in a downstream channel: ☐ Yes ☒ No

Go to: http://sbcounty.permitrack.com/WAP/

If "Yes", then complete HCOC assessment of site hydrology for 2yr storm event using Forms 4.2-3 through 4.2-5 and insert results below (Forms 4.2-3 through 4.2-5 may be replaced by computer software analysis based on the San Bernardino County Hydrology Manual)

If "No," then proceed to Section 4.3 Project Conformance Analysis

Condition	Runoff Volume (ft^3)	Time of Concentration (min)	Peak Runoff (cfs)
Pre-developed	[1] n/a *Form 4.2-3 Item 12*	[2] n/a *Form 4.2-4 Item 13*	[3] n/a *Form 4.2-5 Item 10*
Post-developed	[4] n/a *Form 4.2-3 Item 13*	[5] n/a *Form 4.2-4 Item 14*	[6] n/a *Form 4.2-5 Item 14*
Difference	[7] n/a *Item 4 – Item 1*	[8] n/a *Item 5 – Item 2*	[9] n/a *Item 6 – Item 3*
Difference (as % of pre-developed)	[10] n/a *Item 7 / Item 1*	[11] n/a *Item 8 / Item 2*	[12] n/a *Item 9 / Item 3*

Form 4.2-3 HCOC Assessment for Runoff Volume (DA 1)

Weighted Curve Number Determination for: Pre-developed DA	DMA A	DMA B	DMA C	DMA D	DMA E	DMA F	DMA G	DMA H
1a Land Cover type	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2a Hydrologic Soil Group (HSG)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3a DMA Area, ft^2 *sum of areas of DMA should equal area of DA*	0	0	0	0	0	0	0	0
4a Curve Number (CN) *use Items 1 and 2 to select the appropriate CN from Appendix C-2 of the TGD for WQMP*	0	0	0	0	0	0	0	0
Weighted Curve Number Determination for: Post-developed DA	DMA A	DMA B	DMA C	DMA D	DMA E	DMA F	DMA G	DMA H
1b Land Cover type	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2b Hydrologic Soil Group (HSG)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3b DMA Area, ft^2 *sum of areas of DMA should equal area of DA*	0	0	0	0	0	0	0	0
4b Curve Number (CN) *use Items 5 and 6 to select the appropriate CN from Appendix C-2 of the TGD for WQMP*	0	0	0	0	0	0	0	0

5 Pre-Developed area-weighted CN: 0	**7** Pre-developed soil storage capacity, S (in): 0 *S = (1000 / Item 5) - 10*	**9** Initial abstraction, I_a (in): 0 *I_a = 0.2 * Item 7*
6 Post-Developed area-weighted CN: 0	**8** Post-developed soil storage capacity, S (in): 0 *S = (1000 / Item 6) - 10*	**10** Initial abstraction, I_a (in): 0 *I_a = 0.2 * Item 8*

11 Precipitation for 2 yr, 24 hr storm (in): 0
Go to: http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

12 Pre-developed Volume (ft^3): 0
*V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 9)^2 / ((Item 11 – Item 9 + Item 7)*

13 Post-developed Volume (ft^3): 0
*V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 10)^2 / ((Item 11 – Item 10 + Item 8)*

14 Volume Reduction needed to meet HCOC Requirement, (ft^3): 0
*V_{HCOC} = (Item 13 * 0.95) – Item 12*

Form 4.2-4 HCOC Assessment for Time of Concentration (DA 1)

Compute time of concentration for pre and post developed conditions for each DA

(For projects using the Hydrology Manual complete the form below)

Variables	Pre-developed DA1 *Use additional forms if there are more than 4 DMA*				Post-developed DA1 *Use additional forms if there are more than 4 DMA*			
	DMA A	DMA B	DMA C	DMA D	DMA A	DMA B	DMA C	DMA D
1 Length of flowpath (ft) *Use Form 3-2 Item 5 for pre-developed condition*	0	0	0	0	0	0	0	0
2 Change in elevation (ft)	0	0	0	0	0	0	0	0
3 Slope (ft/ft) *S_o = Item 2 / Item 1*	0	0	0	0	0	0	0	0
4 Land cover	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5 Initial DMA Time of Concentration (min) *Appendix C-1 of the TGD for WQMP*	0	0	0	0	0	0	0	0
6 Length of conveyance from DMA outlet to project site outlet (ft) *May be zero if DMA outlet is at project site outlet*	0	0	0	0	0	0	0	0
7 Cross-sectional area of channel (ft^2)	0	0	0	0	0	0	0	0
8 Wetted perimeter of channel (ft)	0	0	0	0	0	0	0	0
9 Manning's roughness of channel (n)	0	0	0	0	0	0	0	0
10 Channel flow velocity (ft/sec) *V_{fps} = (1.49 / Item 9) * (Item 7/Item 8)^0.67 * (Item 3)^0.5*	0	0	0	0	0	0	0	0
11 Travel time to outlet (min) *T_t = Item 6 / (Item 10 * 60)*	0	0	0	0	0	0	0	0
12 Total time of concentration (min) *T_c = Item 5 + Item 11*	0	0	0	0	0	0	0	0
13 Pre-developed time of concentration (min): 0 *Minimum of Item 12 pre-developed DMA*								
14 Post-developed time of concentration (min): 0 *Minimum of Item 12 post-developed DMA*								
15 Additional time of concentration needed to meet HCOC requirement (min): 0 *$T_{C\text{-}HCOC}$ = (Item 13 * 0.95) – Item 14*								

Form 4.2-5 HCOC Assessment for Peak Runoff (DA 1)

Compute peak runoff for pre- and post-developed conditions

Variables		Pre-developed DA to Project Outlet (*Use additional forms if more than 3 DMA)*			Post-developed DA to Project Outlet (*Use additional forms if more than 3 DMA)*		
		DMA A	DMA B	DMA C	DMA A	DMA B	DMA C
1 Rainfall Intensity for storm duration equal to time of concentration *I_{peak} = 10^(LOG Form 4.2-1 Item 4 - 0.6 LOG Form 4.2-4 Item 5 /60)*		0	0	0	0	0	0
2 Drainage Area of each DMA (Acres) *For DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*		0	0	0	0	0	0
3 Ratio of pervious area to total area *For DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*		0	0	0	0	0	0
4 Pervious area infiltration rate (in/hr) *Use pervious area CN and antecedent moisture condition with Appendix C-3 of the TGD for WQMP*		0	0	0	0	0	0
5 Maximum loss rate (in/hr) *F_m = Item 3 * Item 4* *Use area-weighted F_m from DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*		0	0	0	0	0	0
6 Peak Flow from DMA (cfs) *Q_p =Item 2 * 0.9 * (Item 1 - Item 5)*		0	0	0	0	0	0
7 Time of concentration adjustment factor for other DMA to site discharge point *Form 4.2-4 Item 12 DMA / Other DMA upstream of site discharge point (If ratio is greater than 1.0, then use maximum value of 1.0)*	DMA A	*n/a*			*n/a*		
	DMA B		*n/a*			*n/a*	
	DMA C			*n/a*			*n/a*

8 Pre-developed Q_p at T_c for DMA A: 0 *Q_p = Item 6_{DMAA} + [Item 6_{DMAB} * (Item 1_{DMAA} - Item 5_{DMAB})/(Item 1_{DMAB} - Item 5_{DMAB})* Item $7_{DMAA/2}$] + [Item 6_{DMAC} * (Item 1_{DMAA} - Item 5_{DMAC})/(Item 1_{DMAC} - Item 5_{DMAC})* Item $7_{DMAA/3}$]*	**9** Pre-developed Q_p at T_c for DMA B: 0 *Q_p = Item 6_{DMAB} + [Item 6_{DMAA} * (Item 1_{DMAB} - Item 5_{DMAA})/(Item 1_{DMAA} - Item 5_{DMAA})* Item $7_{DMAB/1}$] + [Item 6_{DMAC} * (Item 1_{DMAB} - Item 5_{DMAC})/(Item 1_{DMAC} - Item 5_{DMAC})* Item $7_{DMAB/3}$]*	**10** Pre-developed Q_p at T_c for DMA C: 0 *Q_p = Item 6_{DMAC} + [Item 6_{DMAA} * (Item 1_{DMAC} - Item 5_{DMAA})/(Item 1_{DMAA} - Item 5_{DMAA})* Item $7_{DMAC/1}$] + [Item 6_{DMAB} * (Item 1_{DMAC} - Item 5_{DMAB})/(Item 1_{DMAB} - Item 5_{DMAB})* Item $7_{DMAC/2}$]*
10 Peak runoff from pre-developed condition confluence analysis (cfs): 0 *Maximum of Item 8, 9, and 10 (including additional forms as needed)*		
11 Post-developed Q_p at T_c for DMA A: 0 *Same as Item 8 for post-developed values*	**12** Post-developed Q_p at T_c for DMA B: 0 *Same as Item 9 for post-developed values*	**13** Post-developed Q_p at T_c for DMA C: 0 *Same as Item 10 for post-developed values*
14 Peak runoff from post-developed condition confluence analysis (cfs): 0 *Maximum of Item 11, 12, and 13 (including additional forms as needed)*		
15 Peak runoff reduction needed to meet HCOC Requirement (cfs): 0 *$Q_{p\text{-}HCOC}$ = (Item 14 * 0.95) – Item 10*		

4.3 Project Conformance Analysis

Complete the following forms for each project site DA to document that the proposed LID BMPs conform to the project DCV developed to meet performance criteria specified in the MS4 Permit (WQMP Template Section 4.2). For the LID DCV, the forms are ordered according to hierarchy of BMP selection as required by the MS4 Permit (see Section 5.3.1 in the TGD for WQMP). The forms compute the following for on-site LID BMP:

- Site Design and Hydrologic Source Controls (Form 4.3-2)
- Retention and Infiltration (Form 4.3-3)
- Harvested and Use (Form 4.3-4) or
- Biotreatment (Form 4.3-5).

At the end of each form, additional fields facilitate the determination of the extent of mitigation provided by the specific BMP category, allowing for use of the next category of BMP in the hierarchy, if necessary.

The first step in the analysis, using Section 5.3.2.1 of the TGD for WQMP, is to complete Forms 4.3-1 and 4.3-3) to determine if retention and infiltration BMPs are infeasible for the project. For each feasibility criterion in Form 4.3-1, if the answer is "Yes," provide all study findings that includes relevant calculations, maps, data sources, etc. used to make the determination of infeasibility.

Next, complete Forms 4.3-2 and 4.3-4 to determine the feasibility of applicable HSC and harvest and use BMPs, and, if their implementation is feasible, the extent of mitigation of the DCV.

If no site constraints exist that would limit the type of BMP to be implemented in a DA, evaluate the use of combinations of LID BMPs, including all applicable HSC BMPs to maximize on-site retention of the DCV. If no combination of BMP can mitigate the entire DCV, implement the single BMP type, or combination of BMP types, that maximizes on-site retention of the DCV within the minimum effective area.

If the combination of LID HSC, retention and infiltration, and harvest and use BMPs are unable to mitigate the entire DCV, then biotreatment BMPs may be implemented by the project proponent. If biotreatment BMPs are used, then they must be sized to provide sufficient capacity for effective treatment of the remainder of the volume-based performance criteria that cannot be achieved with LID BMPs (TGD for WQMP Section 5.4.4.2). Under no circumstances shall any portion of the DCV be released from the site without effective mitigation and/or treatment.

Form 4.3-1 Infiltration BMP Feasibility (Entire Site)

Feasibility Criterion – Complete evaluation for each DA on the Project Site

1 Would infiltration BMP pose significant risk for groundwater related concerns? ☒ Yes ☐ No

Refer to Section 5.3.2.1 of the TGD for WQMP

If Yes, Provide basis: Per the Phase I Environmental Site Assessment (ESA) excerpt provided in Attachment K, the site consists of structures that are part of a decommissioned electric power generating facility, known as the Etiwanda Generating Station, including buildings, power generating units, cooling towers and retention basins/ponds. A 2019 investigation revealed that soil and soil gas samples collected in several locations contained concentrations of chemicals above human health and/or disposal criteria. Under these conditions, infiltration is not recommended.

2 Would installation of infiltration BMP significantly increase the risk of geotechnical hazards ☐ Yes ☒ No

(Yes, if the answer to any of the following questions is yes, as established by a geotechnical expert):

- The location is less than 50 feet away from slopes steeper than 15 percent
- The location is less than eight feet from building foundations or an alternative setback.
- A study certified by a geotechnical professional or an available watershed study determines that stormwater infiltration would result in significantly increased risks of geotechnical hazards.

If Yes, Provide basis: (attach)

3 Would infiltration of runoff on a Project site violate downstream water rights? ☐ Yes ☒ No

If Yes, Provide basis: (attach)

4 Is proposed infiltration facility located on hydrologic soil group (HSG) D soils or does the site geotechnical investigation indicate presence of soil characteristics, which support categorization as D soils? ☐ Yes ☒ No

If Yes, Provide basis: (attach)

5 Is the design infiltration rate, after accounting for safety factor of 2.0, below proposed facility less than 0.3 in/hr (accounting for soil amendments)? ☐ Yes ☒ No

If Yes, Provide basis: (attach)

6 Would on-site infiltration or reduction of runoff over pre-developed conditions be partially or fully inconsistent with watershed management strategies as defined in the WAP, or impair beneficial uses? ☐ Yes ☒ No

See Section 3.5 of the TGD for WQMP and WAP

If Yes, Provide basis: (attach)

7 Any answer from Item 1 through Item 3 is "Yes": ☒ Yes ☐ No

If yes, infiltration of any volume is not feasible onsite. Proceed to Form 4.3-4, Harvest and Use BMP. If no, then proceed to Item 8 below.

8 Any answer from Item 4 through Item 6 is "Yes": ☐ Yes ☒ No

If yes, infiltration is permissible but is not required to be considered. Proceed to Form 4.3-2, Hydrologic Source Control BMP.
If no, then proceed to Item 9, below.

9 All answers to Item 1 through Item 6 are "No": ☐ Yes ☒ No

Infiltration of the full DCV is potentially feasible, LID infiltration BMP must be designed to infiltrate the full DCV to the MEP.
Proceed to Form 4.3-2, Hydrologic Source Control BMP.

4.3.1 Site Design Hydrologic Source Control BMP

Section XI.E. of the Permit emphasizes the use of LID preventative measures; and the use of LID HSC BMPs reduces the portion of the DCV that must be addressed in downstream BMPs. Therefore, all applicable HSC shall be provided except where they are mutually exclusive with each other, or with other BMPs. Mutual exclusivity may result from overlapping BMP footprints such that either would be potentially feasible by itself, but both could not be implemented. Please note that while there are no numeric standards regarding the use of HSC, if a project cannot feasibly meet BMP sizing requirements or cannot fully address HCOCs, feasibility of all applicable HSC must be part of demonstrating that the BMP system has been designed to retain the maximum feasible portion of the DCV. Complete Form 4.3-2 to identify and calculate estimated retention volume from implementing site design HSC BMP. Refer to Section 5.4.1 in the TGD for more detailed guidance.

Form 4.3-2 Site Design Hydrologic Source Control BMPs (DA)

1 Implementation of Impervious Area Dispersion BMP (i.e. routing runoff from impervious to pervious areas), excluding impervious areas planned for routing to on-lot infiltration BMP: ☐ Yes ☒ No *If yes, complete Items 2-5; If no, proceed to Item 6*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Total impervious area draining to pervious area (ft^2)	0	0	0
3 Ratio of pervious area receiving runoff to impervious area	0	0	0
4 Retention volume achieved from impervious area dispersion (ft^3) *V = Item2 * Item 3 * (0.5/12), assuming retention of 0.5 inches of runoff*	0	0	0
5 Sum of retention volume achieved from impervious area dispersion (ft^3): 0 *$V_{retention}$ =Sum of Item 4 for all BMPs*			
6 Implementation of Localized On-lot Infiltration BMPs (e.g. on-lot rain gardens): ☐ Yes ☒ No *If yes, complete Items 7-13 for aggregate of all on-lot infiltration BMP in each DA; If no, proceed to Item 14*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
7 Ponding surface area (ft^2)	0	0	0
8 Ponding depth (ft)	0	0	0
9 Surface area of amended soil/gravel (ft^2)	0	0	0
10 Average depth of amended soil/gravel (ft)	0	0	0
11 Average porosity of amended soil/gravel	0	0	0
12 Retention volume achieved from on-lot infiltration (ft^3) *$V_{retention}$ = (Item 7 *Item 8) + (Item 9 * Item 10 * Item 11)*	0	0	0
13 Runoff volume retention from on-lot infiltration (ft^3): 0 *$V_{retention}$ =Sum of Item 12 for all BMPs*			
14 Implementation of evapotranspiration BMP (green, brown, or blue roofs): ☐ Yes ☒ No *If yes, complete Items 15-20. If no, proceed to Item 21*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
15 Rooftop area planned for ET BMP (ft^2)	0	0	0
16 Average wet season ET demand (in/day) *Use local values, typical ~ 0.1*	0	0	0

Form 4.3-2 Site Design Hydrologic Source Control BMPs (DA)			
17 **Daily ET demand (ft^3/day)** *Item 15 * (Item 16 / 12)*	0	0	0
18 **Drawdown time (hrs)** *Copy Item 6 in Form 4.2-1*	0	0	0
19 **Retention Volume (ft^3)** *$V_{retention}$ = Item 17 * (Item 18 / 24)*	0	0	0
20 **Runoff volume retention from evapotranspiration BMPs (ft^3):** 0 *$V_{retention}$ =Sum of Item 19 for all BMPs*			
21 **Implementation of Street Trees:** ☐ Yes ☒ No *If yes, complete Items 22-25. If no, proceed to Item 26*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
22 **Number of Street Trees**	0	0	0
23 **Average canopy cover over impervious area (ft^2)**	0	0	0
24 **Runoff volume retention from street trees (ft^3)** *$V_{retention}$ = Item 22 * Item 23 * (0.05/12) assume runoff retention of 0.05 inches*	0	0	0
25 **Runoff volume retention from street tree BMPs (ft^3):** 0 *$V_{retention}$ = Sum of Item 24 for all BMPs*			
26 **Implementation of residential rain barrel/cisterns:** ☐ Yes ☒ No *If yes, complete Items 27-29; If no, proceed to Item 30*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
27 **Number of rain barrels/cisterns**	0	0	0
28 **Runoff volume retention from rain barrels/cisterns (ft^3)** *$V_{retention}$ = Item 27 * 3*	0	0	0
29 **Runoff volume retention from residential rain barrels/Cisterns (ft^3):** 0 *$V_{retention}$ =Sum of Item 28 for all BMPs*			
30 **Total Retention Volume from Site Design Hydrologic Source Control BMPs:** 0 *Sum of Items 5, 13, 20, 25 and 29*			

4.3.2 Infiltration BMPs

Use Form 4.3-3 to compute on-site retention of runoff from proposed retention and infiltration BMPs. Volume retention estimates are sensitive to the percolation rate used, which determines the amount of runoff that can be infiltrated within the specified drawdown time. The infiltration safety factor reduces field measured percolation to account for potential inaccuracy associated with field measurements, declining BMP performance over time, and compaction during construction. Appendix D of the TGD for WQMP provides guidance on estimating an appropriate safety factor to use in Form 4.3-3.

If site constraints limit the use of BMPs to a single type and implementation of retention and infiltration BMPs mitigate no more than 40% of the DCV, then they are considered infeasible and the Project Proponent may evaluate the effectiveness of BMPs lower in the LID hierarchy of use (Section 5.5.1 of the TGD for WQMP)

If implementation of infiltrations BMPs is feasible as determined using Form 4.3-1, then LID infiltration BMPs shall be implemented to the MEP (section 4.1 of the TGD for WQMP).

Form 4.3-3 Infiltration LID BMP – including underground BMPs (DA 1)

1 Remaining LID DCV not met by site design HSC BMP (ft^3): 250,848 *V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30*			
BMP Type *Use columns to the right to compute runoff volume retention from proposed infiltration BMP (select BMP from Table 5-4 in TGD for WQMP) - Use additional forms for more BMPs*			
2 Infiltration rate of underlying soils (in/hr) *See Section 5.4.2 and Appendix D of the TGD for WQMP for minimum requirements for assessment methods*			
3 Infiltration safety factor *See TGD Section 5.4.2 and Appendix D*			
4 Design percolation rate (in/hr) *P_{design} = Item 2 / Item 3*			
5 Ponded water drawdown time (hr) *Copy Item 6 in Form 4.2-1*			
6 Maximum ponding depth (ft) *BMP specific, see Table 5-4 of the TGD for WQMP for BMP design details*			
7 Ponding Depth (ft) *d_{BMP} = Minimum of (1/12*Item 4*Item 5) or Item 6*			
8 Infiltrating surface area, SA_{BMP} (ft^2) *the lesser of the area needed for infiltration of full DCV or minimum space requirements from Table 5.7 of the TGD for WQMP*			
9 Amended soil depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 in the TGD for WQMP for reference to BMP design details*			
10 Amended soil porosity			
11 Gravel depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 of the TGD for WQMP for BMP design details*			
12 Gravel porosity			
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*			
14 Above Ground Retention Volume (ft^3) *$V_{retention}$ = Item 8 * [Item7 + (Item 9 * Item 10) + (Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*			
15 Underground Retention Volume (ft^3) *Volume determined using manufacturer's specifications and calculations*			
16 Total Retention Volume from LID Infiltration BMPs: 0 *(Sum of Items 14 and 15 for all infiltration BMP included in plan)*			
17 Fraction of DCV achieved with infiltration BMP: 0% *Retention% = Item 16 / Form 4.2-1 Item 7*			
18 Is full LID DCV retained onsite with combination of hydrologic source control and LID retention/infiltration BMPs? ☐ Yes ☒ No *If yes, demonstrate conformance using Form 4.3-10; If no, then reduce Item 3, Factor of Safety to 2.0 and increase Item 8, Infiltrating Surface Area, such that the portion of the site area used for retention and infiltration BMPs equals or exceeds the minimum effective area thresholds (Table 5-7 of the TGD for WQMP) for the applicable category of development and repeat all above calculations.*			

Form 4.3-4 Infiltration LID BMP – including underground BMPs (DA 2)

1 Remaining LID DCV not met by site design HSC BMP (ft^3): 28,887 *V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30*				
BMP Type *Use columns to the right to compute runoff volume retention from proposed infiltration BMP (select BMP from Table 5-4 in TGD for WQMP) - Use additional forms for more BMPs*				
2 Infiltration rate of underlying soils (in/hr) *See Section 5.4.2 and Appendix D of the TGD for WQMP for minimum requirements for assessment methods*				
3 Infiltration safety factor *See TGD Section 5.4.2 and Appendix D*				
4 Design percolation rate (in/hr) *P_{design} = Item 2 / Item 3*				
5 Ponded water drawdown time (hr) *Copy Item 6 in Form 4.2-1*				
6 Maximum ponding depth (ft) *BMP specific, see Table 5-4 of the TGD for WQMP for BMP design details*				
7 Ponding Depth (ft) *d_{BMP} = Minimum of (1/12*Item 4*Item 5) or Item 6*				
8 Infiltrating surface area, SA_{BMP} (ft^2) *the lesser of the area needed for infiltration of full DCV or minimum space requirements from Table 5.7 of the TGD for WQMP*				
9 Amended soil depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 in the TGD for WQMP for reference to BMP design details*				
10 Amended soil porosity				
11 Gravel depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 of the TGD for WQMP for BMP design details*				
12 Gravel porosity				
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*				
14 Above Ground Retention Volume (ft^3) *$V_{retention}$ = Item 8 * [Item7 + (Item 9 * Item 10) + (Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*				
15 Underground Retention Volume (ft^3) *Volume determined using manufacturer's specifications and calculations*				
16 Total Retention Volume from LID Infiltration BMPs: 0 *(Sum of Items 14 and 15 for all infiltration BMP included in plan)*				
17 Fraction of DCV achieved with infiltration BMP: 0% *Retention% = Item 16 / Form 4.2-1 Item 7*				
18 Is full LID DCV retained onsite with combination of hydrologic source control and LID retention/infiltration BMPs? ☐ Yes ☒ No *If yes, demonstrate conformance using Form 4.3-10; If no, then reduce Item 3, Factor of Safety to 2.0 and increase Item 8, Infiltrating Surface Area, such that the portion of the site area used for retention and infiltration BMPs equals or exceeds the minimum effective area thresholds (Table 5-7 of the TGD for WQMP) for the applicable category of development and repeat all above calculations.*				

Form 4.3-4 Infiltration LID BMP – including underground BMPs (DA 3)

1 Remaining LID DCV not met by site design HSC BMP (ft^3): 25,222 *V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30*			
BMP Type *Use columns to the right to compute runoff volume retention from proposed infiltration BMP (select BMP from Table 5-4 in TGD for WQMP) - Use additional forms for more BMPs*			
2 Infiltration rate of underlying soils (in/hr) *See Section 5.4.2 and Appendix D of the TGD for WQMP for minimum requirements for assessment methods*			
3 Infiltration safety factor *See TGD Section 5.4.2 and Appendix D*			
4 Design percolation rate (in/hr) *P_{design} = Item 2 / Item 3*			
5 Ponded water drawdown time (hr) *Copy Item 6 in Form 4.2-1*			
6 Maximum ponding depth (ft) *BMP specific, see Table 5-4 of the TGD for WQMP for BMP design details*			
7 Ponding Depth (ft) *d_{BMP} = Minimum of (1/12*Item 4*Item 5) or Item 6*			
8 Infiltrating surface area, SA_{BMP} (ft^2) *the lesser of the area needed for infiltration of full DCV or minimum space requirements from Table 5.7 of the TGD for WQMP*			
9 Amended soil depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 in the TGD for WQMP for reference to BMP design details*			
10 Amended soil porosity			
11 Gravel depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 of the TGD for WQMP for BMP design details*			
12 Gravel porosity			
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*			
14 Above Ground Retention Volume (ft^3) *$V_{retention}$ = Item 8 * [Item7 + (Item 9 * Item 10) + (Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*			
15 Underground Retention Volume (ft^3) *Volume determined using manufacturer's specifications and calculations*			
16 Total Retention Volume from LID Infiltration BMPs: 0 *(Sum of Items 14 and 15 for all infiltration BMP included in plan)*			
17 Fraction of DCV achieved with infiltration BMP: 0% *Retention% = Item 16 / Form 4.2-1 Item 7*			
18 Is full LID DCV retained onsite with combination of hydrologic source control and LID retention/infiltration BMPs? ☐ Yes ☒ No *If yes, demonstrate conformance using Form 4.3-10; If no, then reduce Item 3, Factor of Safety to 2.0 and increase Item 8, Infiltrating Surface Area, such that the portion of the site area used for retention and infiltration BMPs equals or exceeds the minimum effective area thresholds (Table 5-7 of the TGD for WQMP) for the applicable category of development and repeat all above calculations.*			

4.3.3 Harvest and Use BMP

Harvest and use BMP may be considered if the full LID DCV cannot be met by maximizing infiltration BMPs. Use Form 4.3-4 to compute on-site retention of runoff from proposed harvest and use BMPs.

Volume retention estimates for harvest and use BMPs are sensitive to the on-site demand for captured stormwater. Since irrigation water demand is low in the wet season, when most rainfall events occur in San Bernardino County, the volume of water that can be used within a specified drawdown period is relatively low. The bottom portion of Form 4.3-4 facilitates the necessary computations to show infeasibility if a minimum incremental benefit of 40 percent of the LID DCV would not be achievable with MEP implementation of on-site harvest and use of stormwater (Section 5.5.4 of the TGD for WQMP).

Form 4.3-5 Harvest and Use BMPs (DA 1)

1 Remaining LID DCV not met by site design HSC or infiltration BMP (ft^3): 250,848 *V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30 – Form 4.3-3 Item 16*			
BMP Type(s) *Compute runoff volume retention from proposed harvest and use BMP (Select BMPs from Table 5-4 of the TGD for WQMP) - Use additional forms for more BMPs*	DA DMA BMP Type *(Use additional forms for more BMPs)*	DA DMA BMP Type *(Use additional forms for more BMPs)*	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Describe cistern or runoff detention facility	n/a	n/a	n/a
3 Storage volume for proposed detention type (ft^3) *Volume of cistern*			
4 Landscaped area planned for use of harvested stormwater (ft^2)			
5 Average wet season daily irrigation demand (in/day) Use local values, typical ~ 0.1 in/day			
6 Daily water demand (ft^3/day) *Item 4 * (Item 5 / 12)*			
7 Drawdown time (hrs) *Copy Item 6 from Form 4.2-1*			
8 Retention Volume (ft^3) *$V_{retention}$ = Minimum of (Item 3) or (Item 6 * (Item 7 / 24))*			
9 Total Retention Volume (ft^3) from Harvest and Use BMP: 0 *Sum of Item 8 for all harvest and use BMP included in plan*			
10 Is the full DCV retained with a combination of LID HSC, retention and infiltration, and harvest & use BMPs? ☐ Yes ☒ No *If yes, demonstrate conformance using Form 4.3-10. If no, then re-evaluate combinations of all LID BMP and optimize their implementation such that the maximum portion of the DCV is retained on-site (using a single BMP type or combination of BMP types). If the full DCV cannot be mitigated after this optimization process, proceed to Section 4.3.4.*			

* This concept was not utilized because it is an industrial facility where the amount of impervious area is much greater than landscape. However, stormwater is detained for biotreatment prior to discharging into the storm drain system.

Form 4.3-5 Harvest and Use BMPs (DA 2)

1 Remaining LID DCV not met by site design HSC or infiltration BMP (ft^3): 28,887
V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30 – Form 4.3-3 Item 16

BMP Type(s) *Compute runoff volume retention from proposed harvest and use BMP (Select BMPs from Table 5-4 of the TGD for WQMP) - Use additional forms for more BMPs*	DA DMA BMP Type *(Use additional forms for more BMPs)*	DA DMA BMP Type *(Use additional forms for more BMPs)*	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Describe cistern or runoff detention facility	n/a	n/a	n/a
3 Storage volume for proposed detention type (ft^3) *Volume of cistern*			
4 Landscaped area planned for use of harvested stormwater (ft^2)			
5 Average wet season daily irrigation demand (in/day) Use local values, typical ~ 0.1 in/day			
6 Daily water demand (ft^3/day) *Item 4 * (Item 5 / 12)*			
7 Drawdown time (hrs) *Copy Item 6 from Form 4.2-1*			
8 Retention Volume (ft^3) *$V_{retention}$ = Minimum of (Item 3) or (Item 6 * (Item 7 / 24))*			

9 Total Retention Volume (ft^3) from Harvest and Use BMP: 0
Sum of Item 8 for all harvest and use BMP included in plan

10 Is the full DCV retained with a combination of LID HSC, retention and infiltration, and harvest & use BMPs? ☐ Yes ☒ No
If yes, demonstrate conformance using Form 4.3-10. If no, then re-evaluate combinations of all LID BMP and optimize their implementation such that the maximum portion of the DCV is retained on-site (using a single BMP type or combination of BMP types). If the full DCV cannot be mitigated after this optimization process, proceed to Section 4.3.4.

* This concept was not utilized because it is an industrial facility where the amount of impervious area is much greater than landscape. However, stormwater is detained for biotreatment prior to discharging into the storm drain system.

Form 4.3-5 Harvest and Use BMPs (DA 3)

1 Remaining LID DCV not met by site design HSC or infiltration BMP (ft^3): 25,222
V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30 – Form 4.3-3 Item 16

BMP Type(s) *Compute runoff volume retention from proposed harvest and use BMP (Select BMPs from Table 5-4 of the TGD for WQMP) - Use additional forms for more BMPs*	DA DMA BMP Type *(Use additional forms for more BMPs)*	DA DMA BMP Type *(Use additional forms for more BMPs)*	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Describe cistern or runoff detention facility	n/a	n/a	n/a
3 Storage volume for proposed detention type (ft^3) *Volume of cistern*			
4 Landscaped area planned for use of harvested stormwater (ft^2)			
5 Average wet season daily irrigation demand (in/day) Use local values, typical ~ 0.1 in/day			
6 Daily water demand (ft^3/day) *Item 4 * (Item 5 / 12)*			
7 Drawdown time (hrs) *Copy Item 6 from Form 4.2-1*			
8 Retention Volume (ft^3) *$V_{retention}$ = Minimum of (Item 3) or (Item 6 * (Item 7 / 24))*			

9 Total Retention Volume (ft^3) from Harvest and Use BMP: 0
Sum of Item 8 for all harvest and use BMP included in plan

10 Is the full DCV retained with a combination of LID HSC, retention and infiltration, and harvest & use BMPs? ☐ Yes ☒ No
If yes, demonstrate conformance using Form 4.3-10. If no, then re-evaluate combinations of all LID BMP and optimize their implementation such that the maximum portion of the DCV is retained on-site (using a single BMP type or combination of BMP types). If the full DCV cannot be mitigated after this optimization process, proceed to Section 4.3.4.

* This concept was not utilized because it is an industrial facility where the amount of impervious area is much greater than landscape. However, stormwater is detained for biotreatment prior to discharging into the storm drain system.

4.3.4 Biotreatment BMP

Biotreatment BMPs may be considered if the full LID DCV cannot be met by maximizing retention and infiltration, and harvest and use BMPs. A key consideration when using biotreatment BMP is the effectiveness of the proposed BMP in addressing the pollutants of concern for the project (see Table 5-5 of the TGD for WQMP).

Use Form 4.3-5 to summarize the potential for volume based and/or flow based biotreatment options to biotreat the remaining unmet LID DCV. Biotreatment computations are included as follows:

- Use Form 4.3-6 to compute biotreatment in small volume based biotreatment BMP (e.g. bioretention w/underdrains);
- Use Form 4.3-7 to compute biotreatment in large volume based biotreatment BMP (e.g. constructed wetlands);
- Use Form 4.3-8 to compute sizing criteria for flow-based biotreatment BMP (e.g. bioswales)

Form 4.3-6 Selection and Evaluation of Biotreatment BMP (DA 1 DMA A)

<table>
<tr><td colspan="2">1 Remaining LID DCV not met by site design HSC, infiltration, or harvest and use BMP for potential biotreatment (ft³): 114,355
Form 4.2-1 Item 7 – Form 4.3-2 Item 30 – Form 4.3-3 Item 16- Form 4.3-4 Item 9</td><td>List pollutants of concern
Copy from Form 2.3-1
None
Pathogens
Metals
Nitrogen</td></tr>
<tr><td rowspan="2">2 Biotreatment BMP Selected
(Select biotreatment BMP(s) necessary to ensure all pollutants of concern are addressed through Unit Operations and Processes, described in Table 5-5 of the TGD for WQMP)</td><td>Volume-based biotreatment
Use Forms 4.3-6 and 4.3-7 to compute treated volume</td><td>Flow-based biotreatment
Use Form 4.3-8 to compute treated volume</td></tr>
<tr><td>☐ Bioretention with underdrain
☐ Planter box with underdrain
☐ Constructed wetlands
☐ Wet extended detention
☐ Dry extended detention
☒ Proprietary biotreatment (volume)</td><td>☐ Vegetated swale
☐ Vegetated filter strip
☐ Proprietary biotreatment</td></tr>
<tr><td>3 Volume biotreated in volume based biotreatment BMP (ft³): 114,355
Form 4.3-6 Item 15 + Form 4.3-7 Item 13</td><td>4 Compute remaining LID DCV with implementation of volume based biotreatment BMP (ft³): 0
Item 1 – Item 3</td><td>5 Remaining fraction of LID DCV for sizing flow based biotreatment BMP: 0%
Item 4 / Item 1</td></tr>
<tr><td colspan="3">6 Flow-based biotreatment BMP capacity provided (cfs): 0
Use Figure 5-2 of the TGD for WQMP to determine flow capacity required to provide biotreatment of remaining percentage of unmet LID DCV (Item 5), for the project's precipitation zone (Form 3-1 Item 1)</td></tr>
<tr><td colspan="3">7 Metrics for MEP determination:
Provided a WQMP with the portion of site area used for suite of LID BMP equal to minimum thresholds in Table 5-7 of the TGD for WQMP for the proposed category of development: ☐
If maximized on-site retention BMPs is feasible for partial capture, then LID BMP implementation must be optimized to retain and infiltrate the maximum portion of the DCV possible within the prescribed minimum effective area. The remaining portion of the DCV shall then be mitigated using biotreatment BMP.</td></tr>
</table>

Form 4.3-6 Selection and Evaluation of Biotreatment BMP (DA 1 DMA B)

1 Remaining LID DCV not met by site design HSC, infiltration, or harvest and use BMP for potential biotreatment (ft^3): 136,493 *Form 4.2-1 Item 7 – Form 4.3-2 Item 30 – Form 4.3-3 Item 16- Form 4.3-4 Item 9*	**List pollutants of concern** *Copy from Form 2.3-1* *None* Pathogens Metals Nitrogen

2 Biotreatment BMP Selected *(Select biotreatment BMP(s) necessary to ensure all pollutants of concern are addressed through Unit Operations and Processes, described in Table 5-5 of the TGD for WQMP)*	**Volume-based biotreatment** *Use Forms 4.3-6 and 4.3-7 to compute treated volume*	**Flow-based biotreatment** *Use Form 4.3-8 to compute treated volume*
	☐ Bioretention with underdrain ☐ Planter box with underdrain ☐ Constructed wetlands ☐ Wet extended detention ☐ Dry extended detention ☒ Proprietary biotreatment (volume)	☐ Vegetated swale ☐ Vegetated filter strip ☐ Proprietary biotreatment

3 Volume biotreated in volume based biotreatment BMP (ft^3): 136,493 *Form 4.3-6 Item 15 + Form 4.3-7 Item 13*	**4 Compute remaining LID DCV with implementation of volume based biotreatment BMP (ft^3):** 0 *Item 1 – Item 3*	**5 Remaining fraction of LID DCV for sizing flow based biotreatment BMP:** 0% *Item 4 / Item 1*

6 Flow-based biotreatment BMP capacity provided (cfs): 0

Use Figure 5-2 of the TGD for WQMP to determine flow capacity required to provide biotreatment of remaining percentage of unmet LID DCV (Item 5), for the project's precipitation zone (Form 3-1 Item 1)

7 Metrics for MEP determination:

Provided a WQMP with the portion of site area used for suite of LID BMP equal to minimum thresholds in Table 5-7 of the TGD for WQMP for the proposed category of development: ☐

If maximized on-site retention BMPs is feasible for partial capture, then LID BMP implementation must be optimized to retain and infiltrate the maximum portion of the DCV possible within the prescribed minimum effective area. The remaining portion of the DCV shall then be mitigated using biotreatment BMP.

Form 4.3-6 Selection and Evaluation of Biotreatment BMP (DA 2)

1 Remaining LID DCV not met by site design HSC, infiltration, or harvest and use BMP for potential biotreatment (ft^3): 28,887 *Form 4.2-1 Item 7 – Form 4.3-2 Item 30 – Form 4.3-3 Item 16- Form 4.3-4 Item 9*	**List pollutants of concern** *Copy from Form 2.3-1* *None* Pathogens Metals Nitrogen	
2 Biotreatment BMP Selected *(Select biotreatment BMP(s) necessary to ensure all pollutants of concern are addressed through Unit Operations and Processes, described in Table 5-5 of the TGD for WQMP)*	**Volume-based biotreatment** *Use Forms 4.3-6 and 4.3-7 to compute treated volume* ☐ Bioretention with underdrain ☐ Planter box with underdrain ☐ Constructed wetlands ☐ Wet extended detention ☐ Dry extended detention ☒ Proprietary biotreatment (volume)	**Flow-based biotreatment** *Use Form 4.3-8 to compute treated volume* ☐ Vegetated swale ☐ Vegetated filter strip ☐ Proprietary biotreatment
3 Volume biotreated in volume based biotreatment BMP (ft^3): 28,887 *Form 4.3-6 Item 15 + Form 4.3-7 Item 13*	**4 Compute remaining LID DCV with implementation of volume based biotreatment BMP (ft^3):** 0 *Item 1 – Item 3*	**5 Remaining fraction of LID DCV for sizing flow based biotreatment BMP:** 0% *Item 4 / Item 1*
6 Flow-based biotreatment BMP capacity provided (cfs): 0 *Use Figure 5-2 of the TGD for WQMP to determine flow capacity required to provide biotreatment of remaining percentage of unmet LID DCV (Item 5), for the project's precipitation zone (Form 3-1 Item 1)*		
7 Metrics for MEP determination: **Provided a WQMP with the portion of site area used for suite of LID BMP equal to minimum thresholds in Table 5-7 of the TGD for WQMP for the proposed category of development:** ☐ *If maximized on-site retention BMPs is feasible for partial capture, then LID BMP implementation must be optimized to retain and infiltrate the maximum portion of the DCV possible within the prescribed minimum effective area. The remaining portion of the DCV shall then be mitigated using biotreatment BMP.*		

Form 4.3-6 Selection and Evaluation of Biotreatment BMP (DA 3)

1 Remaining LID DCV not met by site design HSC, infiltration, or harvest and use BMP for potential biotreatment (ft^3): 25,222 *Form 4.2-1 Item 7 – Form 4.3-2 Item 30 – Form 4.3-3 Item 16- Form 4.3-4 Item 9*	**List pollutants of concern** *Copy from Form 2.3-1* *None* Pathogens Metals Nitrogen	
2 Biotreatment BMP Selected *(Select biotreatment BMP(s) necessary to ensure all pollutants of concern are addressed through Unit Operations and Processes, described in Table 5-5 of the TGD for WQMP)*	**Volume-based biotreatment** *Use Forms 4.3-6 and 4.3-7 to compute treated volume* ☐ Bioretention with underdrain ☐ Planter box with underdrain ☐ Constructed wetlands ☐ Wet extended detention ☐ Dry extended detention ☒ Proprietary biotreatment (volume)	**Flow-based biotreatment** *Use Form 4.3-8 to compute treated volume* ☐ Vegetated swale ☐ Vegetated filter strip ☐ Proprietary biotreatment
3 Volume biotreated in volume based biotreatment BMP (ft^3): 25,222* *Form 4.3-6 Item 15 + Form 4.3-7 Item 13*	**4 Compute remaining LID DCV with implementation of volume based biotreatment BMP (ft^3):** 0 *Item 1 – Item 3*	**5 Remaining fraction of LID DCV for sizing flow based biotreatment BMP:** 0% *Item 4 / Item 1*

6 Flow-based biotreatment BMP capacity provided (cfs): 0

Use Figure 5-2 of the TGD for WQMP to determine flow capacity required to provide biotreatment of remaining percentage of unmet LID DCV (Item 5), for the project's precipitation zone (Form 3-1 Item 1)

7 Metrics for MEP determination:

Provided a WQMP with the portion of site area used for suite of LID BMP equal to minimum thresholds in Table 5-7 of the TGD for WQMP for the proposed category of development: ☐

If maximized on-site retention BMPs is feasible for partial capture, then LID BMP implementation must be optimized to retain and infiltrate the maximum portion of the DCV possible within the prescribed minimum effective area. The remaining portion of the DCV shall then be mitigated using biotreatment BMP.

Form 4.3-7 Volume Based Biotreatment (DA 1) **Bioretention and Planter Boxes with Underdrains**		
Biotreatment BMP Type *(Bioretention w/underdrain, planter box w/underdrain, other comparable BMP)*	DA 1 DMA A STC & MWS "A"	DA 1 DMA B STC & MWS "B"
1 Pollutants addressed with BMP *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*	*	*
2 Amended soil infiltration rate *Typical ~ 5.0*	*	*
3 Amended soil infiltration safety factor *Typical ~ 2.0*	*	*
4 Amended soil design percolation rate (in/hr) P_{design} *= Item 2 / Item 3*	*	*
5 Ponded water drawdown time (hr) *Copy Item 6 from Form 4.2-1*	*	*
6 Maximum ponding depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*	*	*
7 Ponding Depth (ft) d_{BMP} *= Minimum of (1/12 * Item 4 * Item 5) or Item 6*	*	*
8 Amended soil surface area (ft^2)	*	*
9 Amended soil depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*	*	*
10 Amended soil porosity, *n*	*	*
11 Gravel depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*	*	*
12 Gravel porosity, *n*	*	*
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*	*	*
14 Biotreated Volume (ft^3) $V_{biotreated}$ *= Item 8 * [(Item 7/2) + (Item 9 * Item 10) +(Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*	7,536 + 349 + 106,520 = 114,405	9,420 + 349 + 126,888 = 136,657
15 Total biotreated volume from bioretention and/or planter box with underdrains BMP: 251,062 *Sum of Item 14 for all volume-based BMPs included in this form*		

*Volume Treated During Event + Volume Treated Following Event + Volume provided in CMP. See Attachment B for software calculations.

Form 4.3-7 Volume Based Biotreatment (DA 2) **Bioretention and Planter Boxes with Underdrains**		
Biotreatment BMP Type *(Bioretention w/underdrain, planter box w/underdrain, other comparable BMP)*	DA 2 DMA A STC & MWS "C"	**n/a**
1 Pollutants addressed with BMP *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*	*	
2 Amended soil infiltration rate *Typical ~ 5.0*	*	
3 Amended soil infiltration safety factor *Typical ~ 2.0*	*	
4 Amended soil design percolation rate (in/hr) P_{design} *= Item 2 / Item 3*	*	
5 Ponded water drawdown time (hr) *Copy Item 6 from Form 4.2-1*	*	
6 Maximum ponding depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*	*	
7 Ponding Depth (ft) d_{BMP} *= Minimum of (1/12 * Item 4 * Item 5) or Item 6*	*	
8 Amended soil surface area (ft^2)	*	
9 Amended soil depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*	*	
10 Amended soil porosity, *n*	*	
11 Gravel depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*	*	
12 Gravel porosity, *n*	*	
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*	*	
14 Biotreated Volume (ft^3) $V_{biotreated}$ *= Item 8 * [(Item 7/2) + (Item 9 * Item 10) +(Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*	1,884 + 349 + 26,712 = 28,945	
15 Total biotreated volume from bioretention and/or planter box with underdrains BMP: 28,945 *Sum of Item 14 for all volume-based BMPs included in this form*		

*Volume Treated During Event + Volume Treated Following Event + Volume provided in CMP. See Attachment B for software calculations.

Form 4.3-7 Volume Based Biotreatment (DA 3) **Bioretention and Planter Boxes with Underdrains**		
Biotreatment BMP Type *(Bioretention w/underdrain, planter box w/underdrain, other comparable BMP)*	DA 3 DMA A STC & MWS "C"	**n/a**
1 Pollutants addressed with BMP *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*	*	
2 Amended soil infiltration rate *Typical ~ 5.0*	*	
3 Amended soil infiltration safety factor *Typical ~ 2.0*	*	
4 Amended soil design percolation rate (in/hr) P_{design} *= Item 2 / Item 3*	*	
5 Ponded water drawdown time (hr) *Copy Item 6 from Form 4.2-1*	*	
6 Maximum ponding depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*	*	
7 Ponding Depth (ft) d_{BMP} *= Minimum of (1/12 * Item 4 * Item 5) or Item 6*	*	
8 Amended soil surface area (ft^2)	*	
9 Amended soil depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*	*	
10 Amended soil porosity, *n*	*	
11 Gravel depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*	*	
12 Gravel porosity, *n*	*	
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*	*	
14 Biotreated Volume (ft^3) $V_{biotreated}$ *= Item 8 * [(Item 7/2) + (Item 9 * Item 10) +(Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*	1,570+ 348 + 23,362 = 25,280	
15 Total biotreated volume from bioretention and/or planter box with underdrains BMP: 25,280 *Sum of Item 14 for all volume-based BMPs included in this form*		

*Volume Treated During Event + Volume Treated Following Event + Volume provided in CMP. See Attachment B for software calculations.

Form 4.3-8 Volume Based Biotreatment Constructed Wetlands and Extended Detention

Biotreatment BMP Type *Constructed wetlands, extended wet detention, extended dry detention, or other comparable proprietary BMP. If BMP includes multiple modules (e.g. forebay and main basin), provide separate estimates for storage and pollutants treated in each module.*	DA DMA BMP Type *(Use additional forms for more BMPs)*		DA DMA BMP Type *(Use additional forms for more BMPs)*	
	Forebay	Basin	Forebay	Basin
1 Pollutants addressed with BMP forebay and basin *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*	n/a	n/a	n/a	n/a
2 Bottom width (ft)	0	0	0	0
3 Bottom length (ft)	0	0	0	0
4 Bottom area (ft^2) *A_{bottom} = Item 2 * Item 3*	0	0	0	0
5 Side slope (ft/ft)	0	0	0	0
6 Depth of storage (ft)	0	0	0	0
7 Water surface area (ft^2) $A_{surface}$ *=(Item 2 + (2 * Item 5 * Item 6)) * (Item 3 + (2 * Item 5 * Item 6))*	0	0	0	0
8 Storage volume (ft^3) *For BMP with a forebay, ensure fraction of total storage is within ranges specified in BMP specific fact sheets, see Table 5-6 of the TGD for WQMP for reference to BMP design details* V *=Item 6 / 3 * [Item 4 + Item 7 + (Item 4 * Item 7)^0.5]*	0	0	0	0
9 Drawdown Time (hrs) *Copy Item 6 from Form 2.1*	0		0	
10 Outflow rate (cfs) Q_{BMP} *= (Item 8$_{forebay}$ + Item 8$_{basin}$) / (Item 9 * 3600)*	0		0	
11 Duration of design storm event (hrs)	0		0	
12 Biotreated Volume (ft^3) $V_{biotreated}$ *= (Item 8$_{forebay}$ + Item 8$_{basin}$) +(Item 10 * Item 11 * 3600)*	0		0	
13 Total biotreated volume from constructed wetlands, extended dry detention, or extended wet detention: 0 *(Sum of Item 12 for all BMP included in plan)*				

Form 4.3-9 Flow Based Biotreatment			
Biotreatment BMP Type *Vegetated swale, vegetated filter strip, or other comparable proprietary BMP*	DA DMA BMP Type *(Use additional forms for more BMPs)*	DA DMA BMP Type *(Use additional forms for more BMPs)*	DA DMA BMP Type *(Use additional forms for more BMPs)*
1 Pollutants addressed with BMP *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in TGD Table 5-5*	n/a	n/a	n/a
2 Flow depth for water quality treatment (ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*	0	0	0
3 Bed slope (ft/ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*	0	0	0
4 Manning's roughness coefficient	0	0	0
5 Bottom width (ft) *b_w = (Form 4.3-5 Item 6 * Item 4) / (1.49 * Item 2^1.67 * Item 3^0.5)*	0	0	0
6 Side Slope (ft/ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*	0	0	0
7 Cross sectional area (ft^2) *A = (Item 5 * Item 2) + (Item 6 * Item 2^2)*	0	0	0
8 Wa**ter quality flow velocity (ft/sec)** *V = Form 4.3-5 Item 6 / Item 7*	0	0	0
9 Hydraulic residence time (min) *Pollutant specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*	0	0	0
10 Len**gth of flow based BMP (ft)** *L = Item 8 * Item 9 * 60*	0	0	0
11 Water surface area at water quality flow depth (ft^2) *SA_{top} = (Item 5 + (2 * Item 2 * Item 6)) * Item 10*	0	0	0

4.3.5 Conformance Summary

Complete Form 4.3-9 to demonstrate how on-site LID DCV is met with proposed site design hydrologic source control, infiltration, harvest and use, and/or biotreatment BMP. The bottom line of the form is used to describe the basis for infeasibility determination for on-site LID BMP to achieve full LID DCV, and provides methods for computing remaining volume to be addressed in an alternative compliance plan. If the project has more than one outlet, then complete additional versions of this form for each outlet.

Form 4.3-10 Conformance Summary and Alternative Compliance Volume Estimate (DA 1 DMA A)

1 Total LID DCV for the Project DA-1 (ft^3): 114,355
Copy Item 7 in Form 4.2-1

2 On-site retention with site design hydrologic source control LID BMP (ft^3): 0
Copy Item 30 in Form 4.3-2

3 On-site retention with LID infiltration BMP (ft^3): 0
Copy Item 16 in Form 4.3-3

4 On-site retention with LID harvest and use BMP (ft^3): 0
Copy Item 9 in Form 4.3-4

5 On-site biotreatment with volume based biotreatment BMP (ft^3): 114,405
Copy Item 3 in Form 4.3-5

6 Flow capacity provided by flow based biotreatment BMP (cfs): 0
Copy Item 6 in Form 4.3-5

7 LID BMP performance criteria are achieved if answer to any of the following is "Yes":

- Full retention of LID DCV with site design HSC, infiltration, or harvest and use BMP: ☐ Yes ☒ No
  If yes, sum of Items 2, 3, and 4 is greater than Item 1
- Combination of on-site retention BMPs for a portion of the LID DCV and volume-based biotreatment BMP that address all pollutants of concern for the remaining LID DCV: ☐ Yes ☒ No
  If yes, a) sum of Items 2, 3, 4, and 5 is greater than Item 1, and Items 2, 3 and 4 are maximized; or b) Item 6 is greater than Form 4.3--5 Item 6 and Items 2, 3 and 4 are maximized
- On-site retention and infiltration is determined to be infeasible and biotreatment BMP provide biotreatment for all pollutants of concern for full LID DCV: ☒ Yes ☐ No
  If yes, Form 4.3-1 Items 7 and 8 were both checked yes

8 If the LID DCV is not achieved by any of these means, then the project may be allowed to develop an alternative compliance plan. Check box that describes the scenario which caused the need for alternative compliance:

- Combination of HSC, retention and infiltration, harvest and use, and biotreatment BMPs provide less than full LID DCV capture: ☐
  *Checked yes for Form 4.3-5 Item 7, Item 6 is zero, and sum of Items 2, 3, 4, and 5 is less than Item 1. If so, apply water quality credits and calculate volume for alternative compliance, V_{alt} = (Item 1 – Item 2 – Item 3 – Item 4 – Item 5) * (100 - Form 2.4-1 Item 2)%*
- An approved Watershed Action Plan (WAP) demonstrates that water quality and hydrologic impacts of urbanization are more effective when managed in at an off-site facility: ☐
  Attach appropriate WAP section, including technical documentation, showing effectiveness comparisons for the project site and regional watershed

Form 4.3-10 Conformance Summary and Alternative Compliance Volume Estimate (DA 1 DMA B)

1 Total LID DCV for the Project DA-1 (ft^3): 136,493

Copy Item 7 in Form 4.2-1

2 On-site retention with site design hydrologic source control LID BMP (ft^3): 0

Copy Item 30 in Form 4.3-2

3 On-site retention with LID infiltration BMP (ft^3): 0

Copy Item 16 in Form 4.3-3

4 On-site retention with LID harvest and use BMP (ft^3): 0

Copy Item 9 in Form 4.3-4

5 On-site biotreatment with volume based biotreatment BMP (ft^3): 136,657

Copy Item 3 in Form 4.3-5

6 Flow capacity provided by flow based biotreatment BMP (cfs): 0

Copy Item 6 in Form 4.3-5

7 LID BMP performance criteria are achieved if answer to any of the following is "Yes":

- Full retention of LID DCV with site design HSC, infiltration, or harvest and use BMP: ☐ Yes ☒ No
  If yes, sum of Items 2, 3, and 4 is greater than Item 1
- Combination of on-site retention BMPs for a portion of the LID DCV and volume-based biotreatment BMP that address all pollutants of concern for the remaining LID DCV: ☐ Yes ☒ No
  If yes, a) sum of Items 2, 3, 4, and 5 is greater than Item 1, and Items 2, 3 and 4 are maximized; or b) Item 6 is greater than Form 4.3--5 Item 6 and Items 2, 3 and 4 are maximized
- On-site retention and infiltration is determined to be infeasible and biotreatment BMP provide biotreatment for all pollutants of concern for full LID DCV: ☒ Yes ☐ No
  If yes, Form 4.3-1 Items 7 and 8 were both checked yes

8 If the LID DCV is not achieved by any of these means, then the project may be allowed to develop an alternative compliance plan. Check box that describes the scenario which caused the need for alternative compliance:

- Combination of HSC, retention and infiltration, harvest and use, and biotreatment BMPs provide less than full LID DCV capture: ☐
  *Checked yes for Form 4.3-5 Item 7, Item 6 is zero, and sum of Items 2, 3, 4, and 5 is less than Item 1. If so, apply water quality credits and calculate volume for alternative compliance, V_{alt} = (Item 1 – Item 2 – Item 3 – Item 4 – Item 5) * (100 - Form 2.4-1 Item 2)%*
- An approved Watershed Action Plan (WAP) demonstrates that water quality and hydrologic impacts of urbanization are more effective when managed in at an off-site facility: ☐
  Attach appropriate WAP section, including technical documentation, showing effectiveness comparisons for the project site and regional watershed

Form 4.3-10 Conformance Summary and Alternative Compliance Volume Estimate (DA 2)

1 Total LID DCV for the Project DA-1 (ft^3): 28,887

Copy Item 7 in Form 4.2-1

2 On-site retention with site design hydrologic source control LID BMP (ft^3): 0

Copy Item 30 in Form 4.3-2

3 On-site retention with LID infiltration BMP (ft^3): 0

Copy Item 16 in Form 4.3-3

4 On-site retention with LID harvest and use BMP (ft^3): 0

Copy Item 9 in Form 4.3-4

5 On-site biotreatment with volume based biotreatment BMP (ft^3): 28,945

Copy Item 3 in Form 4.3-5

6 Flow capacity provided by flow based biotreatment BMP (cfs): 0

Copy Item 6 in Form 4.3-5

7 LID BMP performance criteria are achieved if answer to any of the following is "Yes":

- Full retention of LID DCV with site design HSC, infiltration, or harvest and use BMP: ☐ Yes ☒ No
  If yes, sum of Items 2, 3, and 4 is greater than Item 1
- Combination of on-site retention BMPs for a portion of the LID DCV and volume-based biotreatment BMP that address all pollutants of concern for the remaining LID DCV: ☐ Yes ☒ No
  If yes, a) sum of Items 2, 3, 4, and 5 is greater than Item 1, and Items 2, 3 and 4 are maximized; or b) Item 6 is greater than Form 4.3--5 Item 6 and Items 2, 3 and 4 are maximized
- On-site retention and infiltration is determined to be infeasible and biotreatment BMP provide biotreatment for all pollutants of concern for full LID DCV: ☒ Yes ☐ No
  If yes, Form 4.3-1 Items 7 and 8 were both checked yes

8 If the LID DCV is not achieved by any of these means, then the project may be allowed to develop an alternative compliance plan. Check box that describes the scenario which caused the need for alternative compliance:

- Combination of HSC, retention and infiltration, harvest and use, and biotreatment BMPs provide less than full LID DCV capture: ☐
  *Checked yes for Form 4.3-5 Item 7, Item 6 is zero, and sum of Items 2, 3, 4, and 5 is less than Item 1. If so, apply water quality credits and calculate volume for alternative compliance, V_{alt} = (Item 1 – Item 2 – Item 3 – Item 4 – Item 5) * (100 - Form 2.4-1 Item 2)%*
- An approved Watershed Action Plan (WAP) demonstrates that water quality and hydrologic impacts of urbanization are more effective when managed in at an off-site facility: ☐
  Attach appropriate WAP section, including technical documentation, showing effectiveness comparisons for the project site and regional watershed

Form 4.3-10 Conformance Summary and Alternative Compliance Volume Estimate (DA 3)

1 Total LID DCV for the Project DA-1 (ft^3): 25,222

Copy Item 7 in Form 4.2-1

2 On-site retention with site design hydrologic source control LID BMP (ft^3): 0

Copy Item 30 in Form 4.3-2

3 On-site retention with LID infiltration BMP (ft^3): 0

Copy Item 16 in Form 4.3-3

4 On-site retention with LID harvest and use BMP (ft^3): 0

Copy Item 9 in Form 4.3-4

5 On-site biotreatment with volume based biotreatment BMP (ft^3): 25,280

Copy Item 3 in Form 4.3-5

6 Flow capacity provided by flow based biotreatment BMP (cfs): 0

Copy Item 6 in Form 4.3-5

7 LID BMP performance criteria are achieved if answer to any of the following is "Yes":

- Full retention of LID DCV with site design HSC, infiltration, or harvest and use BMP: ☐ Yes ☒ No
  If yes, sum of Items 2, 3, and 4 is greater than Item 1
- Combination of on-site retention BMPs for a portion of the LID DCV and volume-based biotreatment BMP that address all pollutants of concern for the remaining LID DCV: ☐ Yes ☒ No
  If yes, a) sum of Items 2, 3, 4, and 5 is greater than Item 1, and Items 2, 3 and 4 are maximized; or b) Item 6 is greater than Form 4.3--5 Item 6 and Items 2, 3 and 4 are maximized
- On-site retention and infiltration is determined to be infeasible and biotreatment BMP provide biotreatment for all pollutants of concern for full LID DCV: ☒ Yes ☐ No
  If yes, Form 4.3-1 Items 7 and 8 were both checked yes

8 If the LID DCV is not achieved by any of these means, then the project may be allowed to develop an alternative compliance plan. Check box that describes the scenario which caused the need for alternative compliance:

- Combination of HSC, retention and infiltration, harvest and use, and biotreatment BMPs provide less than full LID DCV capture: ☐
  *Checked yes for Form 4.3-5 Item 7, Item 6 is zero, and sum of Items 2, 3, 4, and 5 is less than Item 1. If so, apply water quality credits and calculate volume for alternative compliance, V_{alt} = (Item 1 – Item 2 – Item 3 – Item 4 – Item 5) * (100 - Form 2.4-1 Item 2)%*
- An approved Watershed Action Plan (WAP) demonstrates that water quality and hydrologic impacts of urbanization are more effective when managed in at an off-site facility: ☐
  Attach appropriate WAP section, including technical documentation, showing effectiveness comparisons for the project site and regional watershed

4.3.6 Hydromodification Control BMP

Use Form 4.3-10 to compute the remaining runoff volume retention, after LID BMP are implemented, needed to address HCOC, and the increase in time of concentration and decrease in peak runoff necessary to meet targets for protection of waterbodies with a potential HCOC. Describe hydromodification control BMP that address HCOC, which may include off-site BMP and/or in-stream controls. Section 5.6 of the TGD for WQMP provides additional details on selection and evaluation of hydromodification control BMP.

Form 4.3-11 Hydromodification Control BMPs (DA 1)

1 Volume reduction needed for HCOC performance criteria (ft^3): 0 *(Form 4.2-2 Item 4 * 0.95) – Form 4.2-2 Item 1*	**2 On-site retention with site design hydrologic source control, infiltration, and harvest and use LID BMP (ft^3):** 0 *Sum of Form 4.3-9 Items 2, 3, and 4 Evaluate option to increase implementation of on-site retention in Forms 4.3-2, 4.3-3, and 4.3-4 in excess of LID DCV toward achieving HCOC volume reduction*
3 Remaining volume for HCOC volume capture (ft^3): 0 *Item 1 – Item 2*	**4 Volume capture provided by incorporating additional on-site or off-site retention BMPs (ft^3):** 0 *Existing downstream BMP may be used to demonstrate additional volume capture (if so, attach to this WQMP a hydrologic analysis showing how the additional volume would be retained during a 2-yr storm event for the regional watershed)*

5 If Item 4 is less than Item 3, incorporate in-stream controls on downstream waterbody segment to prevent impacts due to hydromodification ☐
Attach in-stream control BMP selection and evaluation to this WQMP

6 Is Form 4.2-2 Item 11 less than or equal to 5%: ☐ Yes ☐ No

If yes, HCOC performance criteria is achieved. If no, select one or more mitigation options below:

- Demonstrate increase in time of concentration achieved by proposed LID site design, LID BMP, and additional on-site or off-site retention BMP ☐
  BMP upstream of a waterbody segment with a potential HCOC may be used to demonstrate increased time of concentration through hydrograph attenuation (if so, show that the hydraulic residence time provided in BMP for a 2-year storm event is equal or greater than the addition time of concentration requirement in Form 4.2-4 Item 15)
- Increase time of concentration by preserving pre-developed flow path and/or increase travel time by reducing slope and increasing cross-sectional area and roughness for proposed on-site conveyance facilities ☐
- Incorporate appropriate in-stream controls for downstream waterbody segment to prevent impacts due to hydromodification, in a plan approved and signed by a licensed engineer in the State of California ☐

7 Form 4.2-2 Item 12 less than or equal to 5%: ☐ Yes ☐ No

If yes, HCOC performance criteria is achieved. If no, select one or more mitigation options below:

- Demonstrate reduction in peak runoff achieved by proposed LID site design, LID BMPs, and additional on-site or off-site retention BMPs ☐
  BMPs upstream of a waterbody segment with a potential HCOC may be used to demonstrate additional peak runoff reduction through hydrograph attenuation (if so, attach to this WQMP, a hydrograph analysis showing how the peak runoff would be reduced during a 2-yr storm event)
- Incorporate appropriate in-stream controls for downstream waterbody segment to prevent impacts due to hydromodification, in a plan approved and signed by a licensed engineer in the State of California ☐

4.4 Alternative Compliance Plan (if applicable)

Describe an alternative compliance plan (if applicable) for projects not fully able to infiltrate, harvest and use, or biotreat the DCV via on-site LID practices. A project proponent must develop an alternative compliance plan to address the remainder of the LID DCV. Depending on project type some projects may qualify for water quality credits that can be applied to reduce the DCV that must be treated prior to development of an alternative compliance plan (see Form 2.4-1, Water Quality Credits). Form 4.3-9 Item 8 includes instructions on how to apply water quality credits when computing the DCV that must be met through alternative compliance. Alternative compliance plans may include one or more of the following elements:

- On-site structural treatment control BMP - All treatment control BMP should be located as close to possible to the pollutant sources and should not be located within receiving waters;
- Off-site structural treatment control BMP - Pollutant removal should occur prior to discharge of runoff to receiving waters;
- Urban runoff fund or In-lieu program, if available

Depending upon the proposed alternative compliance plan, approval by the executive officer may or may not be required (see Section 6 of the TGD for WQMP).

Section 5 Inspection and Maintenance Responsibility for Post Construction BMP

All BMP included as part of the project WQMP are required to be maintained through regular scheduled inspection and maintenance (refer to Section 8, Post Construction BMP Requirements, in the TGD for WQMP). Fully complete Form 5-1 summarizing all BMP included in the WQMP. Attach additional forms as needed. The WQMP shall also include a detailed Operation and Maintenance Plan for all BMP and may require a Maintenance Agreement (consult the jurisdiction's LIP). If a Maintenance Agreement is required, it must also be attached to the WQMP.

Form 5-1 BMP Inspection and Maintenance

BMP	Responsible Party(ies)	Inspection/Maintenance Activities Required	Minimum Frequency of Activities
Underground Detention Chambers	Owner	The isolator row shall be inspected for debris and sediment accumulations and maintained by a qualified technician and he/she will properly dispose of all wastes and inspect for standing water. A manhole is installed in order to inspect and maintain the inlet row. All entry into the chamber system must be done per OSHA codes to ensure operator and inspector safety. Inspection ports should be checked 48 hours after storm events to see that the water is draining down, at least once each rainy season, following a major storm event. Records shall be maintained by owner to document inspections.	The isolator row shall be inspected semi-annually (by October 1st and February 1st) and cleaned by water-flush and vacuum when solids accumulate to 3" depth. Maintenance to be conducted through service contract with the vendor or equally qualified contractor.
Hydrodynamic Separator	Owner	Visual inspection to quantify the accumulation of hydrocarbons, trash, and sediment in the system. Use vacuum truck to clean and remove pollutants from the system upon reaching 75% capacity. Clean area outside of the screen if pollutant build-up exists.	Visually inspect twice a year (spring and fall) or as frequently as needed. Vacuum frequency as determined by inspection.
Drain Inserts	Owner	Visually inspect for defects and illegal dumping. Notify proper authorities if illegal dumping has occurred. Using an industrial vacuum, the collected materials shall be removed from the filter basket and disposed of properly. Inspect biosorb hydrocarbon boom and replace as necessary.	Two times per year (May and September) or following any rain event that would potentially accumulate a large amount of debris in the system. Replace boom twice per year, at a minimum.
Proprietary Biofiltration Unit	Owner	Remove trash from Screening Device, sediment from Separation Chamber and replace cartridge Filter Media, and Drain Down Filter Media. The owner should keep maintenance/inspection record(s) for a minimum of five years from the date of maintenance. These records should be made available to the governing municipality for inspection upon request at any time. Transport all debris, trash, organics and sediments to approved facility for disposal in accordance with local and state requirements.	Average maintenance interval of 6 to 12 months for removing trash from Screening Device. Average interval of 12 to 24 months for removing sediment, replacing Cartridge Filter Media, replacing Drain Down Filter Media and trimming vegetation.

Form 5-1 BMP Inspection and Maintenance

Storm Drain Stenciled Message	Owner	Visually inspect for legibility and replace or repaint as necessary.	Annually (September)
N1: Education of Property Owners, Tenants and Occupants on Stormwater BMPs	Owner	Property owner will familiarize him/herself with the educational materials in Attachment "E" and the contents of the WQMP.	Annually (January) for all employees and within 2 months for new hires.
N2: Activity Restrictions	Owner	Activities are restricted to only those for which a BMP has been implemented. The owner shall develop ongoing activity restrictions that include those that have the potential to create adverse impacts on water quality. Activities include, but are not limited to: handling and disposal of contaminants, fertilizer and pesticide application restrictions, litter control and pick-up, and vehicle or equipment repair as well as any other activities that may potentially contribute to water pollution.	Ongoing
N3: Landscape Management BMPs	Owner	Irrigation must be consistent with City's Water Conservation Ordinance. Fertilizer and pesticide usage will be consistent with County Management Guidelines for Use of Fertilizers and Pesticides.	Ongoing
N4: BMP Maintenance	Owner	BMP maintenance, implementation schedules, and responsible parties are included with each specific BMP narrative.	As described in each BMP listed within this form.
N7: Spill Contingency Plan	Owner	Owner/tenant will have a spill contingency plan, a separate document, based on specific site needs.	Ongoing
N10: Uniform Fire Code Implementation	Owner	If applicable, owner will comply with Article 80 of the Uniform Fire Code enforced by the fire protection agency. The facility operators will be educated annually regarding requirements for handling, storage and proper disposal of hazardous substances.	Ongoing
N11: Litter/Debris Control Program	Owner	Contract with their landscape maintenance firm to provide this service during regularly schedule maintenance. They are required to implement trash management and litter control procedures in the common areas aimed at reducing pollution of drainage water.	Weekly
N12: Employee Training	Owner	The owner will ensure that tenants are also familiar with onsite BMPs and necessary maintenance required of the tenants. Owner will check with City and County at least once a year to obtain new or updated educational materials and provide these materials to tenants. Employees shall be trained to clean up spills and participate in ongoing maintenance. The WQMP requires annual employee training and new hires within 2 months.	Annually (January) for all employees and within 2 months for new hires.

Form 5-1 BMP Inspection and Maintenance			
N13: Housekeeping of Loading Docks	Owner	Keep all fluids indoors. Clean up spills immediately and keep spills from entering storm drain system. No direct discharges into the storm drain system. Area shall be inspected weekly for proper containment and practices with spills cleaned up immediately and disposed of properly.	Ongoing
N14: Catch Basin Inspection Program	Owner	Monthly inspection by property owner's designee. Inspection consists of immediate repair of any deterioration of the structures and maintenance of drain inserts before and after major rain events. Drain insert maintenance shall be per manufacturer's guidelines.	Monthly inspection and maintain as necessary.
N15: Vacuum Sweeping of Private Streets and Parking Lots	Owner	All landscape maintenance contractors will be required to sweep up all landscape cuttings, mowings and fertilizer materials off paved areas weekly and dispose of properly. Parking areas and drive ways will be swept monthly by sweeping contractor.	Monthly
N17: Comply with all other applicable NPDES permits	Owner	Will comply with Construction General Permit and Industrial General Permit (may apply for No Exposure Certification/NEC).	Ongoing
S1: Provide storm drain system stenciling and signage (CASQA New Development BMP Handbook SD-13)	Owner	"No Dumping – Drains to River" stencils will be applied. Legibility of stencil will be maintained on a yearly basis.	Annually (January)
S3: Design and construct trash and waste storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-32)	Owner	Paved with an impervious surface, designed not to allow run-on from adjoining areas, designed to divert drainage from adjoining roofs and pavements diverted around the area, screened or walled to prevent off-site transport of trash. Detail to be provided once available.	Ongoing
S4: Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control (Statewide Model Landscape Ordinance; CASQA New Development BMP Handbook SD-12)	Owner	Irrigation systems shall include reducers or shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines. Timers will be used to avoid over watering and watering cycles and duration shall be adjusted seasonally by the landscape maintenance contractor. The landscaping areas will be grouped with plants that have similar water requirements. Native or drought tolerant species shall also be used where appropriate to reduce excess irrigation runoff and promote surface filtration.	Adjust watering cycles and duration seasonally / quarterly (Oct, Jan, Apr, and Jul).

Section 6 WQMP Attachments

6.1 Site Plan and Drainage Plan

Include a site plan and drainage plan sheet set containing the following minimum information:

- Project location
- Site boundary
- Land uses and land covers, as applicable
- Suitability/feasibility constraints
- Structural Source Control BMP locations
- Site Design Hydrologic Source Control BMP locations
- LID BMP details
- Drainage delineations and flow information
- Drainage connections

See Attachment C for Site and Drainage Plan.

6.2 Electronic Data Submittal

Minimum requirements include submittal of PDF exhibits in addition to hard copies. Format must not require specialized software to open. If the local jurisdiction requires specialized electronic document formats (consult the LIP), this section will describe the contents (e.g., layering, nomenclature, geo-referencing, etc.) of these documents so that they may be interpreted efficiently and accurately.

6.3 Post Construction

Attach all O&M Plans and Memorandum of Agreement for BMP to the WQMP (Attachment D).

6.4 Other Supporting Documentation

- BMP Educational Materials (Attachment E)
- Soil/Infiltration Report (Attachment F) (NA)
- BMP Maintenance Material (Attachment G)
- Conditions of Approval (Attachment H)
- Class V Injection Well Registration (Attachment I)
- Activity Restrictions (Attachment J)
- Phase I ESA (Attachment K)

Attachment A
Existing Condition Site Photos














SPEED
LIMIT
5

Attachment B
BMP Design Calculations & Supporting Documentation

www.nws.noaa.gov

NOAA's National Weather Service
Hydrometeorological Design Studies Center
Precipitation Frequency Data Server (PFDS)

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Precipitation Frequency
- Data Server
- GIS Grids
- Maps
- Time Series
- Temporals
- Documents

Probable Maximum Precipitation
- Documents

Miscellaneous
- Publications
- Storm Analysis
- Record Precipitation

Contact Us
- Inquiries

USA.gov

NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES: CA

Data description

Data type: Precipitation depth | **Units:** English | **Time series type:** Partial duration

Select location

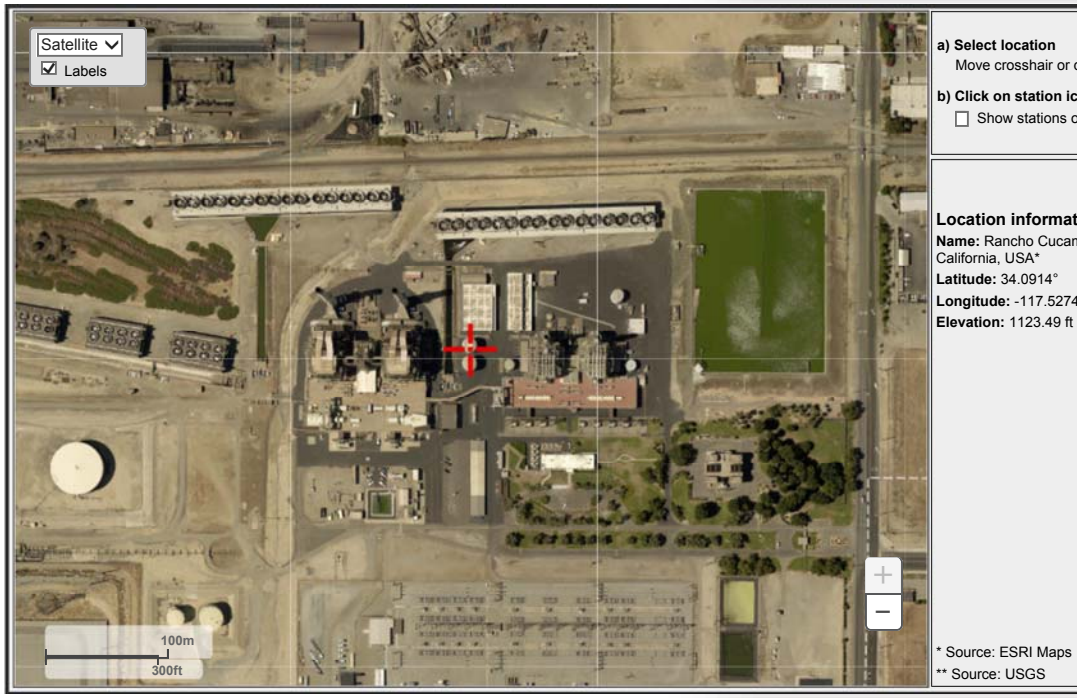
1) Manually:

a) By location (decimal degrees, use "-" for S and W): Latitude: 34.091404 Longitude: -117.52738 Submit

b) By station (list of CA stations): Select station

c) By address Search

2) Use map (if ESRI interactive map is not loading, try adding the host: **https://js.arcgis.com/** to the firewall, or contact us at hdsc.questions@noaa.gov):



POINT PRECIPITATION FREQUENCY (PF) ESTIMATES

WITH 90% CONFIDENCE INTERVALS AND SUPPLEMENTARY INFORMATION
NOAA Atlas 14, Volume 6, Version 2

PF tabular | PF graphical | Supplementary information | Print page

PDS-based precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years) 1	2	5	10	25	50	100	200	500
5-min	0.107 (0.090–0.130)	0.141 (0.118–0.172)	0.188 (0.156–0.228)	0.227 (0.186–0.278)	0.281 (0.224–0.358)	0.325 (0.253–0.422)	0.371 (0.282–0.495)	0.420 (0.310–0.576)	0.489 (0.345–0.701)
10-min	0.154 (0.128–0.187)	0.203 (0.169–0.246)	0.269 (0.223–0.327)	0.325 (0.267–0.399)	0.403 (0.321–0.513)	0.466 (0.363–0.606)	0.532 (0.404–0.709)	0.602 (0.444–0.826)	0.702 (0.495–1.00)
15-min	0.186 (0.155–0.226)	0.245 (0.204–0.298)	0.325 (0.270–0.396)	0.393 (0.323–0.482)	0.488 (0.388–0.620)	0.564 (0.439–0.732)	0.644 (0.488–0.857)	0.729 (0.537–0.999)	0.848 (0.599–1.21)
30-min	0.274 (0.228–0.332)	0.360 (0.300–0.437)	0.478 (0.397–0.582)	0.577 (0.475–0.708)	0.717 (0.570–0.911)	0.828 (0.644–1.08)	0.945 (0.717–1.26)	1.07 (0.788–1.47)	1.25 (0.880–1.78)
60-min	0.400 (0.333–0.485)	0.526 (0.438–0.639)	0.698 (0.579–0.850)	0.843 (0.694–1.03)	1.05 (0.832–1.33)	1.21 (0.941–1.57)	1.38 (1.05–1.84)	1.56 (1.15–2.14)	1.82 (1.29–2.61)
2-hr	0.614 (0.511–0.744)	0.788 (0.656–0.957)	1.02 (0.850–1.25)	1.22 (1.01–1.50)	1.50 (1.19–1.91)	1.72 (1.34–2.24)	1.96 (1.48–2.61)	2.20 (1.62–3.02)	2.55 (1.80–3.65)
3-hr									

	0.786 (0.655–0.953)	**1.00** (0.834–1.22)	**1.29** (1.07–1.57)	**1.54** (1.26–1.88)	**1.87** (1.49–2.38)	**2.14** (1.67–2.78)	**2.42** (1.84–3.23)	**2.72** (2.00–3.73)	**3.13** (2.21–4.48)
6-hr	**1.13** (0.945–1.37)	**1.44** (1.20–1.75)	**1.85** (1.54–2.25)	**2.19** (1.80–2.68)	**2.64** (2.10–3.36)	**3.00** (2.33–3.90)	**3.37** (2.55–4.48)	**3.75** (2.76–5.14)	**4.27** (3.01–6.11)
12-hr	**1.51** (1.26–1.83)	**1.95** (1.62–2.37)	**2.51** (2.09–3.06)	**2.96** (2.44–3.63)	**3.56** (2.83–4.52)	**4.00** (3.11–5.20)	**4.45** (3.37–5.92)	**4.90** (3.61–6.71)	**5.50** (3.88–7.87)
24-hr	**2.03** (1.79–2.34)	**2.68** (2.37–3.09)	**3.50** (3.09–4.05)	**4.14** (3.62–4.83)	**4.97** (4.21–5.99)	**5.58** (4.63–6.86)	**6.17** (5.00–7.78)	**6.76** (5.33–8.76)	**7.53** (5.69–10.2)
2-day	**2.50** (2.21–2.88)	**3.39** (3.00–3.91)	**4.53** (3.99–5.24)	**5.43** (4.75–6.34)	**6.64** (5.62–8.00)	**7.54** (6.25–9.27)	**8.44** (6.83–10.6)	**9.34** (7.36–12.1)	**10.5** (7.98–14.2)
3-day	**2.73** (2.42–3.15)	**3.76** (3.33–4.34)	**5.11** (4.50–5.91)	**6.20** (5.42–7.23)	**7.69** (6.51–9.26)	**8.83** (7.32–10.9)	**9.99** (8.09–12.6)	**11.2** (8.81–14.5)	**12.8** (9.68–17.3)
4-day	**2.99** (2.65–3.45)	**4.15** (3.67–4.79)	**5.68** (5.01–6.57)	**6.94** (6.07–8.10)	**8.67** (7.34–10.5)	**10.0** (8.31–12.3)	**11.4** (9.23–14.4)	**12.8** (10.1–16.6)	**14.8** (11.2–20.0)
7-day	**3.50** (3.10–4.04)	**4.89** (4.32–5.64)	**6.73** (5.94–7.79)	**8.26** (7.23–9.64)	**10.4** (8.79–12.5)	**12.0** (9.99–14.8)	**13.8** (11.1–17.3)	**15.6** (12.3–20.1)	**18.0** (13.6–24.3)
10-day	**3.81** (3.37–4.39)	**5.33** (4.71–6.15)	**7.37** (6.50–8.53)	**9.07** (7.94–10.6)	**11.4** (9.69–13.8)	**13.3** (11.0–16.4)	**15.2** (12.3–19.2)	**17.3** (13.6–22.4)	**20.1** (15.2–27.1)
20-day	**4.40** (3.90–5.07)	**6.27** (5.54–7.23)	**8.79** (7.75–10.2)	**10.9** (9.55–12.7)	**13.9** (11.8–16.8)	**16.3** (13.5–20.0)	**18.8** (15.2–23.7)	**21.4** (16.9–27.7)	**25.2** (19.0–33.9)
30-day	**5.19** (4.59–5.98)	**7.44** (6.58–8.59)	**10.5** (9.27–12.2)	**13.1** (11.5–15.3)	**16.8** (14.2–20.2)	**19.8** (16.4–24.3)	**22.9** (18.5–28.8)	**26.2** (20.7–33.9)	**30.9** (23.4–41.7)
45-day	**6.13** (5.43–7.07)	**8.80** (7.78–10.2)	**12.5** (11.0–14.4)	**15.6** (13.7–18.2)	**20.1** (17.0–24.2)	**23.7** (19.7–29.1)	**27.5** (22.3–34.7)	**31.7** (25.0–41.0)	**37.6** (28.4–50.7)
60-day	**7.11** (6.30–8.20)	**10.2** (8.99–11.7)	**14.4** (12.7–16.6)	**18.0** (15.7–21.0)	**23.2** (19.6–27.9)	**27.4** (22.7–33.7)	**31.9** (25.8–40.2)	**36.8** (29.0–47.6)	**43.7** (33.1–59.0)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration a recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitatic estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

Estimates from the table in CSV format: Precipitation frequency estimates Submit

Main Link Categories:
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US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
Office of Water Prediction (OWP)
1325 East West Highway
Silver Spring, MD 20910
Page Author: HDSC webmaster
Page last modified: April 21, 2017

Map Disclaimer
Disclaimer
Credits
Glossary

FLOW-BASED BMP DESIGN (pretreatment)

$C_{BMP} = 0.858(imp)^3 - 0.78(imp)^2 + 0.774(imp) + 0.04$
$I_{BMP} = (0.526)(0.2787)(2) = 0.293$ in/hr
$Q = C_{BMP} * 0.293 * Area$

DA 1 DMA A – CDS "A"

Region		Valley	
Drainage Area (acres)		23.10	acres
Drainage Area (sq-ft)		1,006,236	sq-ft
Impervious Coeff	i =	1.00	< 1.0
Runoff Coeff	**C =**	0.89	
1-hr 2-yr from NOAA		0.526	
Itensity Coeff		0.2787	
Intensity BMP (in/hr)		0.293	
Flow (cfs)	Q =	6.04	

CONTECH CDS4045-8
Q-required = 6.04 cfs
Q-provided = 7.50 cfs

DA 1 DMA B – CDS "B"

Region		Valley	
Drainage Area (acres)		29.95	acres
Drainage Area (sq-ft)		1,304,622	sq-ft
Impervious Coeff	i =	0.96	< 1.0
Runoff Coeff	**C =**	0.82	
1-hr 2-yr from NOAA		0.526	
Itensity Coeff		0.2787	
Intensity BMP (in/hr)		0.293	
Flow (cfs)	Q =	7.23	

CONTECH CDS5640-10
Q-required = 7.23 cfs
Q-provided = 9.00 cfs

DA 2 DMA A – CDS "C"

Region		Valley	
Drainage Area (acres)		6.45	acres
Drainage Area (sq-ft)		280,962	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.81	
1-hr 2-yr from NOAA		0.526	
Itensity Coeff		0.2787	
Intensity BMP (in/hr)		0.293	
Flow (cfs)	Q =	1.53	

CONTECH CDS2025-5
Q-required = 1.53 cfs
Q-provided = 1.60 cfs

VOLUME-BASED BMP DESIGN

$C_{BMP} = 0.858(imp)^3 - 0.78(imp)^2 + 0.774(imp) + 0.04$
P6 = (0.526)(1.4807) = 0.779 inches
P0 = (1.963)(C_{BMP})(0.779)
DCV = (P0 * Area) / 12

DA 1 DMA A – STORMTECH CHAMBERS & MODULAR WETLANDS "A"

Region		Valley	
Drainage Area (acres)		21.05	acres
Drainage Area (sq-ft)		916,938	sq-ft
Impervious Coeff	i =	1.00	< 1.0
Runoff Coeff	**C =**	0.892	
1-hr 2-yr from NOAA		0.526	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.779	
Drawdown Rate (a)		1.963	
DCV		104,207	cu-ft
DCV		2.392	acre-ft

ROW IMPROVEMENTS – STORMTECH CHAMBERS & MODULAR WETLANDS "A"

Region		Valley	
Drainage Area (acres)		2.05	acres
Drainage Area (sq-ft)		89,298	sq-ft
Impervious Coeff	i =	1	< 1.0
Runoff Coeff	**C =**	0.892	
1-hr 2-yr from NOAA		0.526	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.779	
Drawdown Rate (a)		1.963	
DCV		10,148	cu-ft
DCV		0.233	acre-ft

Total DCV = 104,207 cu-ft + 10,148 cu-ft = 114,355 cu-ft

WetlandMOD VOLUME BASED SIZING SHEET



Horizontal Flow Biofiltration System

Project Location

Project Name	Etiwanda Distribution Center (DA 1 DMA A)
City/Town	Rancho Cucamonga
State	California
Zip Code	91739

SIZING CALCULATIONS	**Inputs**	**Units**	**Notes/References**
Impervious Area			
BMP Drainage Area (not required - manual entry - not part of formula)	23.1	**Acres**	This includes all areas that will contribute runoff to the proposed BMP, including pervious areas, impervious areas, and off-site areas, whether or not they are directly or indirectly connected to the BMP.
Watershed Impervious Ratio (not required - manual entry - not part of formula)			Watershed Imperviousness Ratio", is equal to the percent of total impervious area in the "BMP Drainage Area" divided by 100
Runoff Coefficient "C" (not required - manual entry - not part of formula)			
Water Quality Volume (required)	114355	cubic feet	Use sizing procedures provided by state or local agencies to determine the appropriate Water Quality Volume. Intensities and design storms vary widely by region and method.
Design Storm Duration	3	hours	Varies depending on geographical region. Set at 0 for pump system set up. LA County 3 hours. Call for details.
MWS - Linear Sizing			
MWS - Linear Model Number (from matrix)	MWS-L-10-20	quantity	Please choose size from "Model Size Matrix" Tab
# Of Units	4	quantity	Select the number of systems required to treat the water quality volume. Will very depending on drain down time regulaitons.
Discharge Rate (from matrix)	78.50	gallons/minute	Rate of 0.26 gpm/sq ft or 25 in/hr. Field Verified.
Volume Treated During Event			
Processed through MWS - Linear	7535.9	cubic feet	**314.00 gals/minute**
Volume Treated Following Event			
MWS - Linear Static Capacity (from matrix)	349	cubic feet	
Volume Needed in *Pre-Storage*	106470	cubic feet	Set at zero to start. Size pre-storage system to hold this volume
			Sizing complete when eqaul to value of zero.
TOTAL STORMWATER TREATED	114355	cubic feet	Note: This amount should be equal to the "Water Quality Volume"
Drain Down Time	42.52	hours	Drain down time must be equal to or less than requirement of local juristiction. Default 48 hours.

Feel free to fax or email proposed sizing calculations to Modular Wetlands Systems, Inc. for assistance with sizing, compliance, and design.

Phone: 760.433.7640

Fax: 760.433.3176

Email: Info@modularwetlands.com

StormTech
Detention • Retention • Recharge
Subsurface Stormwater Management℠

MC-4500 Site Calculator

Project Information:

Project Name:	Etiwanda Distribution Center (DA 1 DMA A)
Location:	Rancho Cucamonga
Date:	11/10/2021
Engineer:	Thienes Engineering Inc.
StormTech RPM:	

System Requirements

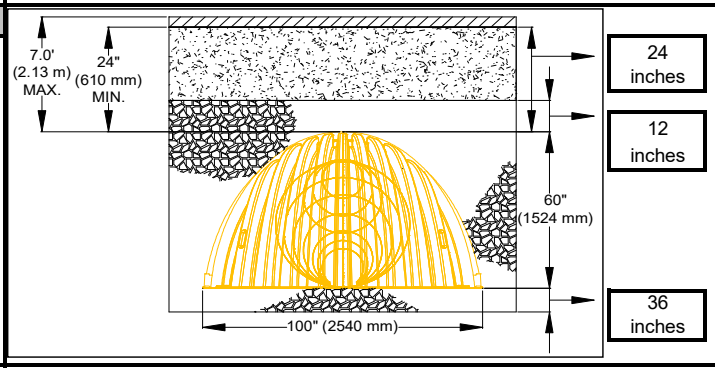
Units		Imperial	
Required Storage Volume		106470	CF
Stone Porosity (Industry Standard = 40%)		40	%
Stone Above Chambers	(12 inch min.)	12	inches
Stone Foundation Depth	(9 inch min.)	36	inches
Average Cover over Chambers	(24 inch min.)	24	inches
Bed size controlled by WIDTH or LENGTH?		WIDTH	
Limiting WIDTH or LENGTH dimension		70	feet
Storage Volume per Chamber		195.5	CF
Storage Volume per End Cap		137.7	CF

System Sizing

Number of Chambers Required	535	each
Number of End Caps Required	14	each
Bed Size (including perimeter stone)	20,335	square feet
Stone Required (including perimeter stone)	6591	tons
Volume of Excavation	7532	cubic yards
Non-woven Filter Fabric Required (20% Safety Factor)	6339	square yards
Length of Isolator Row	317.0	feet
Woven Isolator Row Fabric (20% Safety Factor)	871	square yards
Installed Storage Volume	106,520	cubic feet

Controlled by Width (Rows)

Maximum Width =	70	feet
3 rows of 77 chambers		
4 row of 76 chambers		
Maximum Length =	317.0	feet
Maximum Width =	64.8	feet



DA 1 DMA B– STORMTECH CHAMBERS & MODULAR WETLANDS "B"

Region		Valley	
Drainage Area (acres)		24.95	acres
Drainage Area (sq-ft)		1,086,822	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.807	
1-hr 2-yr from NOAA		0.526	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.779	
Drawdown Rate (a)		1.963	
DCV		111,741	cu-ft
DCV		2.565	acre-ft

ROW IMPROVEMENTS – STORMTECH CHAMBERS & MODULAR WETLANDS "B"

Region		Valley	
Drainage Area (acres)		5.00	acres
Drainage Area (sq-ft)		217,800	sq-ft
Impervious Coeff	i =	1	< 1.0
Runoff Coeff	**C =**	0.892	
1-hr 2-yr from NOAA		0.526	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.779	
Drawdown Rate (a)		1.963	
DCV		24,752	cu-ft
DCV		0.568	acre-ft

Total DCV = 111,741 cu-ft + 24,752 cu-ft = 136,493 cu-ft

WetlandMOD VOLUME BASED SIZING SHEET



Horizontal Flow Biofiltration System

Project Location

Project Name	Etiwanda Distribution Center (DA 1 DMA B)
City/Town	Rancho Cucamonga
State	California
Zip Code	91739

SIZING CALCULATIONS	**Inputs**	**Units**	**Notes/References**
Impervious Area			
BMP Drainage Area (not required - manual entry - not part of formula)	29.95	Acres	This includes all areas that will contribute runoff to the proposed BMP, including pervious areas, impervious areas, and off-site areas, whether or not they are directly or indirectly connected to the BMP.
Watershed Impervious Ratio (not required - manual entry - not part of formula)			Watershed Imperviousness Ratio", is equal to the percent of total impervious area in the "BMP Drainage Area" divided by 100
Runoff Coefficient "C" (not required - manual entry - not part of formula)			
Water Quality Volume (required)	136493	cubic feet	Use sizing procedures provided by state or local agencies to determine the appropriate Water Quality Volume. Intensities and design storms vary widely by region and method.
Design Storm Duration	3	hours	Varies depending on geographical region. Set at 0 for pump system set up. LA County 3 hours. Call for details.
MWS - Linear Sizing			
MWS - Linear Model Number (from matrix)	MWS-L-10-20	quantity	Please choose size from "Model Size Matrix" Tab
# Of Units	5	quantity	Select the number of systems required to treat the water quality volume. Will very depending on drain down time regulaitons.
Discharge Rate (from matrix)	78.50	gallons/minute	Rate of 0.26 gpm/sq ft or 25 in/hr. Field Verified.
Volume Treated During Event			
Processed through MWS - Linear	9419.9	cubic feet	392.50 gals/minute
Volume Treated Following Event			
MWS - Linear Static Capacity (from matrix)	349	cubic feet	
Volume Needed in *Pre-Storage*	126724	cubic feet	Set at zero to start. Size pre-storage system to hold this volume
			Sizing complete when eqaul to value of zero.
TOTAL STORMWATER TREATED	136493	cubic feet	Note: This amount should be equal to the "Water Quality Volume"
Drain Down Time	40.47	hours	Drain down time must be equal to or less than requirement of local juristiction. Default 48 hours.

Feel free to fax or email proposed sizing calculations to Modular Wetlands Systems, Inc. for assistance with sizing, compliance, and design.

Phone: 760.433.7640

Fax: 760.433.3176

Email: Info@modularwetlands.com

StormTech
Detention • Retention • Recharge
Subsurface Stormwater Management℠

MC-4500 Site Calculator

Project Information:

Project Name:	Etiwanda Distribution Center (DA 1 DMA B)
Location:	Rancho Cucamonga
Date:	11/10/2021
Engineer:	Thienes Engineering Inc.
StormTech RPM:	

System Requirements

Units		Imperial	
Required Storage Volume		126724	CF
Stone Porosity (Industry Standard = 40%)		40	%
Stone Above Chambers	(12 inch min.)	12	inches
Stone Foundation Depth	(9 inch min.)	36	inches
Average Cover over Chambers	(24 inch min.)	24	inches
Bed size controlled by WIDTH or LENGTH?		WIDTH	
Limiting WIDTH or LENGTH dimension		50	feet
Storage Volume per Chamber		195.5	CF
Storage Volume per End Cap		137.7	CF

System Sizing

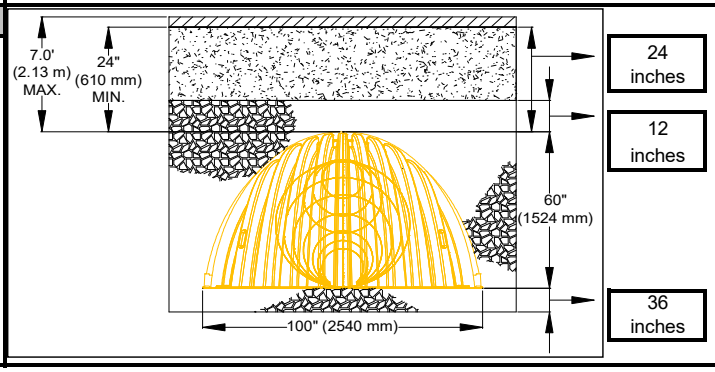
Number of Chambers Required	642	each
Number of End Caps Required	10	each
Bed Size (including perimeter stone)	24,398	square feet
Stone Required (including perimeter stone)	7920	tons
Volume of Excavation	9036	cubic yards
Non-woven Filter Fabric Required (20% Safety Factor)	7881	square yards
Length of Isolator Row	526.3	feet
Woven Isolator Row Fabric (20% Safety Factor)	1446	square yards
Installed Storage Volume	126,888	cubic feet

Controlled by Width (Rows)

Maximum Width =	50	feet

2 rows of 129 chambers
3 row of 128 chambers

Maximum Length =	526.3	feet
Maximum Width =	46.7	feet



DA 2 DMA A – STORMTECH CHAMBERS & MODULAR WETLANDS "C"

Region		Valley	
Drainage Area (acres)		6.45	acres
Drainage Area (sq-ft)		280,962	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.807	
1-hr 2-yr from NOAA		0.526	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.779	
Drawdown Rate (a)		1.963	
DCV		28,887	cu-ft
DCV		0.663	acre-ft

WetlandMOD VOLUME BASED SIZING SHEET



Horizontal Flow Biofiltration System

Project Location

Project Name	Etiwanda Distribution Center (DA 2 DMA A)
City/Town	Rancho Cucamonga
State	California
Zip Code	91739

SIZING CALCULATIONS	**Inputs**	**Units**	**Notes/References**
Impervious Area			
BMP Drainage Area (not required - manual entry - not part of formula)	6.45	**Acres**	This includes all areas that will contribute runoff to the proposed BMP, including pervious areas, impervious areas, and off-site areas, whether or not they are directly or indirectly connected to the BMP.
Watershed Impervious Ratio (not required - manual entry - not part of formula)			Watershed Imperviousness Ratio", is equal to the percent of total impervious area in the "BMP Drainage Area" divided by 100
Runoff Coefficient "C" (not required - manual entry - not part of formula)			
Water Quality Volume (required)	28887	cubic feet	Use sizing procedures provided by state or local agencies to determine the appropriate Water Quality Volume. Intensities and design storms vary widely by region and method.
Design Storm Duration	3	hours	Varies depending on geographical region. Set at 0 for pump system set up. LA County 3 hours. Call for details.
MWS - Linear Sizing			
MWS - Linear Model Number (from matrix)	MWS-L-10-20	quantity	Please choose size from "Model Size Matrix" Tab
# Of Units	1	quantity	Select the number of systems required to treat the water quality volume. Will very depending on drain down time regulaitons.
Discharge Rate (from matrix)	78.50	gallons/minute	Rate of 0.26 gpm/sq ft or 25 in/hr. Field Verified.
Volume Treated During Event			
Processed through MWS - Linear	1884.0	cubic feet	**78.50 gals/minute**
Volume Treated Following Event			
MWS - Linear Static Capacity (from matrix)	349	cubic feet	
Volume Needed in *Pre-Storage*	26654	cubic feet	Set at zero to start. Size pre-storage system to hold this volume
			Sizing complete when eqaul to value of zero.
TOTAL STORMWATER TREATED	28887	cubic feet	Note: This amount should be equal to the "Water Quality Volume"
Drain Down Time	43.00	hours	Drain down time must be equal to or less than requirement of local juristiction. Default 48 hours.

Feel free to fax or email proposed sizing calculations to Modular Wetlands Systems, Inc. for assistance with sizing, compliance, and design.

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Email: Info@modularwetlands.com

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MC-4500 Site Calculator

Project Information:

Project Name:	Etiwanda Distribution Center (DA 2 DMA A)
Location:	Rancho Cucamonga
Date:	11/9/2021
Engineer:	Thienes Engineering Inc.
StormTech RPM:	

System Requirements

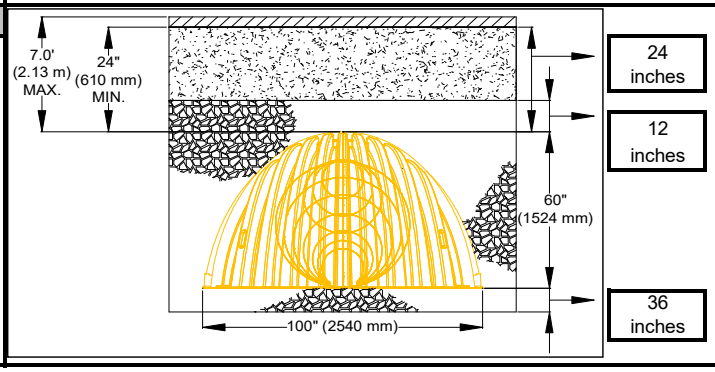
Units		Imperial	
Required Storage Volume		26654	CF
Stone Porosity (Industry Standard = 40%)		40	%
Stone Above Chambers	(12 inch min.)	12	inches
Stone Foundation Depth	(9 inch min.)	36	inches
Average Cover over Chambers	(24 inch min.)	24	inches
Bed size controlled by WIDTH or LENGTH?		WIDTH	
Limiting WIDTH or LENGTH dimension		45	feet
Storage Volume per Chamber		195.5	CF
Storage Volume per End Cap		137.7	CF

System Sizing

Number of Chambers Required	131	each
Number of End Caps Required	8	each
Bed Size (including perimeter stone)	5,205	square feet
Stone Required (including perimeter stone)	1712	tons
Volume of Excavation	1928	cubic yards
Non-woven Filter Fabric Required (20% Safety Factor)	1814	square yards
Length of Isolator Row	139.9	feet
Woven Isolator Row Fabric (20% Safety Factor)	384	square yards
Installed Storage Volume	26,712	cubic feet

Controlled by Width (Rows)

Maximum Width =	45	feet
3 rows of 33 chambers		
1 row of 32 chambers		
Maximum Length =	139.9	feet
Maximum Width =	37.6	feet



DA 3 DMA A – STORMTECH CHAMBERS & MODULAR WETLANDS "D"

Region		Valley	
Drainage Area (acres)		3.20	acres
Drainage Area (sq-ft)		139,392	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.807	
1-hr 2-yr from NOAA		0.526	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.779	
Drawdown Rate (a)		1.963	
DCV		14,331	cu-ft
DCV		0.329	acre-ft

ROW IMPROVEMENTS – STORMTECH CHAMBERS & MODULAR WETLANDS "D"

Region		Valley	
Drainage Area (acres)		2.20	acres
Drainage Area (sq-ft)		95,832	sq-ft
Impervious Coeff	i =	1	< 1.0
Runoff Coeff	**C =**	0.892	
1-hr 2-yr from NOAA		0.526	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.779	
Drawdown Rate (a)		1.963	
DCV		10,891	cu-ft
DCV		0.250	acre-ft

Total DCV = 14,331 cu-ft + 10,891 cu-ft = 25,222 cu-ft

WetlandMOD VOLUME BASED SIZING SHEET



Horizontal Flow Biofiltration System

Project Location

Project Name	Etiwanda Distribution Center (DA 3 DMA A)
City/Town	Rancho Cucamonga
State	California
Zip Code	91739

SIZING CALCULATIONS	**Inputs**	**Units**	**Notes/References**
Impervious Area			
BMP Drainage Area (not required - manual entry - not part of formula)	5.4	**Acres**	This includes all areas that will contribute runoff to the proposed BMP, including pervious areas, impervious areas, and off-site areas, whether or not they are directly or indirectly connected to the BMP.
Watershed Impervious Ratio (not required - manual entry - not part of formula)			Watershed Imperviousness Ratio", is equal to the percent of total impervious area in the "BMP Drainage Area" divided by 100
Runoff Coefficient "C" (not required - manual entry - not part of formula)			
Water Quality Volume (required)	25222	cubic feet	Use sizing procedures provided by state or local agencies to determine the appropriate Water Quality Volume. Intensities and design storms vary widely by region and method.
Design Storm Duration	3	hours	Varies depending on geographical region. Set at 0 for pump system set up. LA County 3 hours. Call for details.
MWS - Linear Sizing			
MWS - Linear Model Number (from matrix)	MWS-L-8-20	quantity	Please choose size from "Model Size Matrix" Tab
# Of Units	1	quantity	Select the number of systems required to treat the water quality volume. Will very depending on drain down time regulaitons.
Discharge Rate (from matrix)	65.42	gallons/minute	Rate of 0.26 gpm/sq ft or 25 in/hr. Field Verified.
Volume Treated During Event			
Processed through MWS - Linear	1570.0	cubic feet	**65.42 gals/minute**
Volume Treated Following Event			
MWS - Linear Static Capacity (from matrix)	348	cubic feet	
Volume Needed in *Pre-Storage*	23304	cubic feet	Set at zero to start. Size pre-storage system to hold this volume
			Sizing complete when eqaul to value of zero.
TOTAL STORMWATER TREATED	25222	cubic feet	Note: This amount should be equal to the "Water Quality Volume"
Drain Down Time	45.20	hours	Drain down time must be equal to or less than requirement of local juristiction. Default 48 hours.

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Email: Info@modularwetlands.com

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MC-4500 Site Calculator

Project Information:

Project Name:	Etiwanda Distribution Center (DA 3 DMA A)
Location:	Rancho Cucamonga
Date:	11/10/2021
Engineer:	Thienes Engineering Inc.
StormTech RPM:	

System Requirements

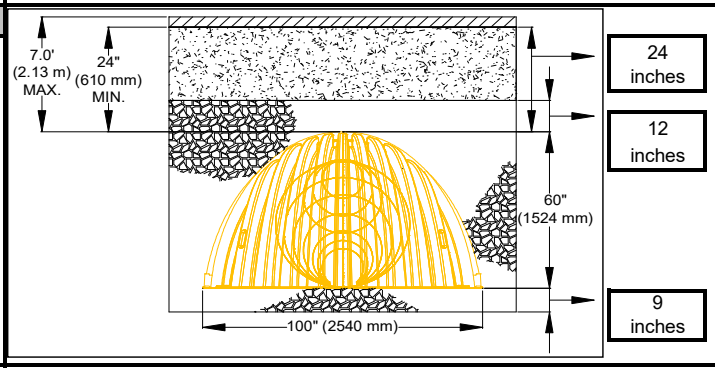
Units		Imperial	
Required Storage Volume		23304	CF
Stone Porosity (Industry Standard = 40%)		40	%
Stone Above Chambers	(12 inch min.)	12	inches
Stone Foundation Depth	(9 inch min.)	9	inches
Average Cover over Chambers	(24 inch min.)	24	inches
Bed size controlled by WIDTH or LENGTH?		WIDTH	
Limiting WIDTH or LENGTH dimension		50	feet
Storage Volume per Chamber		162.6	CF
Storage Volume per End Cap		108.6	CF

System Sizing

Number of Chambers Required	137	each
Number of End Caps Required	10	each
Bed Size (including perimeter stone)	5,427	square feet
Stone Required (including perimeter stone)	1138	tons
Volume of Excavation	1558	cubic yards
Non-woven Filter Fabric Required (20% Safety Factor)	1747	square yards
Length of Isolator Row	119.8	feet
Woven Isolator Row Fabric (20% Safety Factor)	329	square yards
Installed Storage Volume	23,362	cubic feet

Controlled by Width (Rows)

Maximum Width =	50	feet
2 rows of 28 chambers		
3 row of 27 chambers		
Maximum Length =	119.8	feet
Maximum Width =	46.7	feet



Attachment C
Site and Drainage Plan



Last Update: 11/9/21
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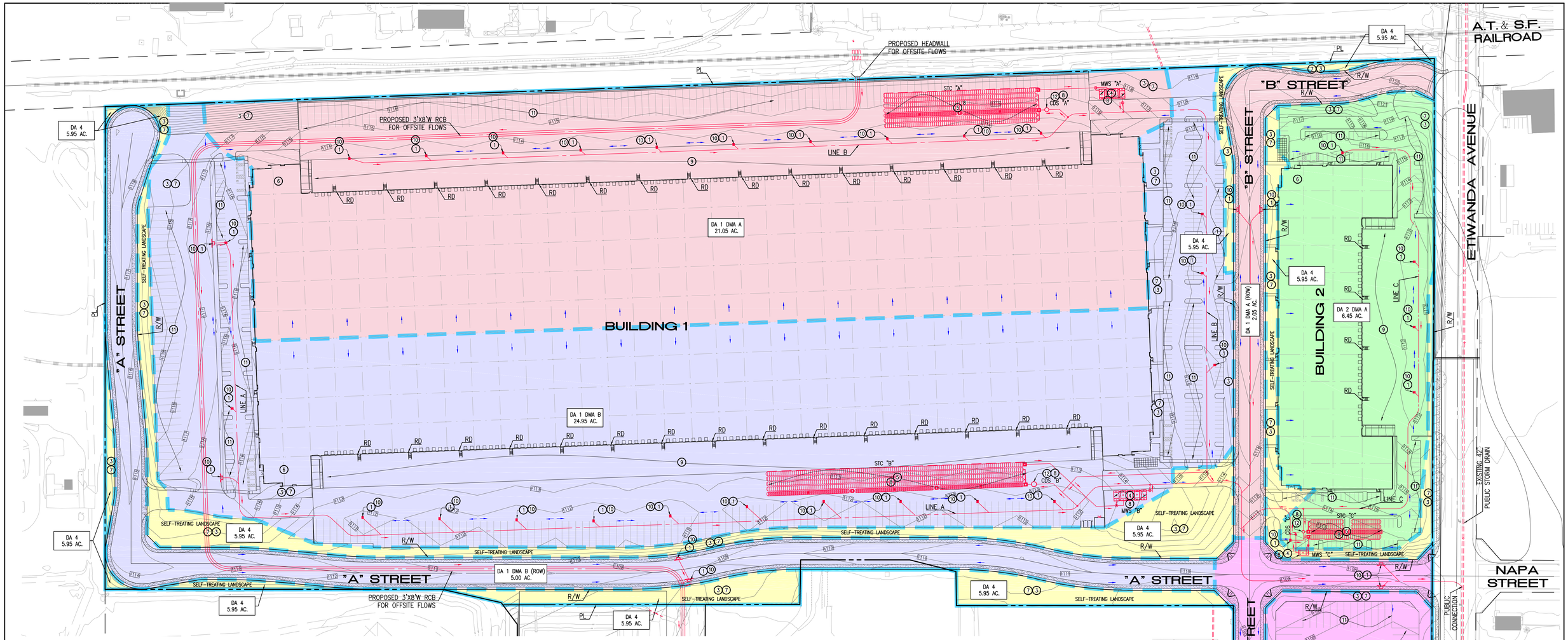
Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

VICINITY MAP

FOR

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA

NTS



Form 5-1 BMP Inspection and Maintenance

BMP	Responsible Party(ies)	Inspection/Maintenance Activities Required	Minimum Frequency of Activities
Underground Detention Systems	Owner	The isolator row shall be inspected for debris and sediment accumulations and maintained by a qualified technician and he/she will properly dispose of all wastes and inspect for standing water. A manhole is installed in order to inspect and maintain the inlet row. All entry into the chamber system must be done per OSHA codes to ensure operator and inspector safety. Inspection ports should be checked 48 hours after storm events to see that the water is draining down, at least once each rainy season, following a major storm event. Records shall be maintained by owner to document inspections.	The isolator row shall be inspected semi-annually (by October 1st and February 1st) and cleaned by water-flush and vacuum when solids accumulate to 3" depth. Maintenance to be conducted through service contract with the vendor or equally qualified contractor.
Hydrodynamic Separator	Owner	Visual inspection to quantify the accumulation of hydrocarbons, trash, and sediment in the system. Use vacuum truck to clean and remove pollutants from the system upon reaching 75% capacity. Clean area outside of the screen if pollutant build-up exists.	Visually inspect twice a year (spring and fall) or as frequently as needed. Vacuum frequency as determined by inspection.
Drain Inserts	Owner	Visually inspect for defects and illegal dumping. Notify proper authorities if illegal dumping has occurred. Using an industrial vacuum, the collected materials shall be removed from the filter basket and disposed of properly. Inspect biosorb hydrocarbon boom and replace as necessary.	Two times per year (May and September) or following any rain event that would potentially accumulate a large amount of debris in the system. Replace boom twice per year, at a minimum.
Proprietary Biofiltration Unit	Owner	Remove trash from Screening Device, sediment from Separation Chamber and replace cartridge Filter Media, and Drain Down Filter Media. The owner should keep maintenance/inspection record(s) for a minimum of five years from the date of maintenance. These records should be made available to the governing municipality for inspection upon request at any time. Transport all debris, trash, organics and sediments to approved facility for disposal in accordance with local and state requirements.	Average maintenance interval of 6 to 12 months for removing trash from Screening Device. Average interval of 12 to 24 months for removing sediment, replacing Cartridge Filter Media, replacing Drain Down Filter Media and trimming vegetation.
Storm Drain Stenciled Message	Owner	Visually inspect for legibility and replace or repaint as necessary.	Annually (September)
N1: Education of Property Owners, Tenants and Occupants on Stormwater BMPs	Owner	Property owner will familiarize him/herself with the educational materials in Attachment "E" and the contents of the WQMP.	Annually (January) for all employees and within 2 months for new hires.
N2: Activity Restrictions	Owner	Activities are restricted to only those for which a BMP has been implemented. The owner shall develop ongoing activity restrictions that include those that have the potential to create adverse impacts on water quality. Activities include, but are not limited to: handling and disposal of contaminants, fertilizer and pesticide application restrictions, litter control and pick-up, and vehicle or equipment repair as well as any other activities that may potentially contribute to water pollution.	Ongoing
N3: Landscape Management BMPs	Owner	Irrigation must be consistent with City's Water Conservation Ordinance. Fertilizer and pesticide usage will be consistent with County Management Guidelines for Use of Fertilizers and Pesticides.	Ongoing
N4: BMP Maintenance	Owner	BMP maintenance, implementation schedules, and responsible parties are included with each specific BMP narrative.	As described in each BMP listed within this form.
N7: Spill Contingency Plan	Owner	Owner/tenant will have a spill contingency plan, a separate document, based on specific site needs.	Ongoing
N10: Uniform Fire Code Implementation	Owner	If applicable, owner will comply with Article 80 of the Uniform Fire Code enforced by the fire protection agency. The facility operators will be educated annually regarding requirements for handling, storage and proper disposal of hazardous substances.	Ongoing
N11: Litter/Debris Control Program	Owner	Contract with their landscape maintenance firm to provide this service during regularly schedule maintenance. They are required to implement trash management and litter control procedures in the common areas aimed at reducing pollution of drainage water.	Weekly

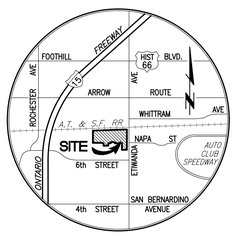
Form 5-1 BMP Inspection and Maintenance

BMP	Responsible Party(ies)	Inspection/Maintenance Activities Required	Minimum Frequency of Activities
N12: Employee Training	Owner	The owner will ensure that tenants are also familiar with onsite BMPs and necessary maintenance required of the tenants. Owner will check with City and County at least once a year to obtain new or updated educational materials and provide these materials to tenants. Employees shall be trained to clean up spills and participate in ongoing maintenance. The WQMP requires annual employee training and new hires within 2 months.	Annually (January) for all employees and within 2 months for new hires.
N13: Housekeeping of Loading Docks	Owner	Keep all fluids indoors. Clean up spills immediately and keep spills from entering storm drain system. No direct discharges into the storm drain system. Area shall be inspected weekly for proper containment and practices with spills cleaned up immediately and disposed of properly.	Ongoing
N14: Catch Basin Inspection Program	Owner	Monthly inspection by property owner's designee. Inspection consists of immediate repair of any deterioration of the structures and maintenance of drain inserts before and after major rain events. Drain insert maintenance shall be per manufacturer's guidelines.	Monthly inspection and maintain as necessary.
N15: Vacuum Sweeping of Private Streets and Parking Lots	Owner	All landscape maintenance contractors will be required to sweep up all landscape cuttings, mowings and fertilizer materials off paved areas weekly and dispose of properly. Parking areas and drive ways will be swept monthly by sweeping contractor.	Monthly
N17: Comply with all other applicable NPDES permits	Owner	Will comply with Construction General Permit and Industrial General Permit (may apply for No Exposure Certification/NEC).	Ongoing
S1: Provide storm drain system stenciling and signage (CASQA New Development BMP Handbook SD-13)	Owner	"No Dumping – Drains to River" stencils will be applied. Legibility of stencil will be maintained on a yearly basis.	Annually (January)
S3: Design and construct trash and waste storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-32)	Owner	Paved with an impervious surface, designed not to allow run-on from adjoining areas, designed to divert drainage from adjoining roofs and pavements diverted around the area, screened or walled to prevent off-site transport of trash. Detail to be provided once available.	Ongoing
S4: Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control (Statewide Model Landscape Ordinance; CASQA New Development BMP Handbook SD-12)	Owner	Irrigation systems shall include reducers or shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines. Timers will be used to avoid over watering and watering cycles and duration shall be adjusted seasonally by the landscape maintenance contractor. The landscaping areas will be grouped with plants that have similar water requirements. Native or drought tolerant species shall also be used where appropriate to reduce excess irrigation runoff and promote surface filtration.	Adjust watering cycles and duration seasonally / quarterly (Oct, Jan, Apr, and Jul).

INSTALL ONE 4" ALUMINUM STORM DRAIN PLACARD, PAINTED BLUE WITH A 1/4" SQUARE MOUNTING HOLE (NO DUMPING DRAINS TO WATERWAY) FISH WITH WAVE (PROVIDED BY ENGINEERING SERVICES DEPARTMENT) ON CENTER OF CATCH BASIN BETWEEN SCORING LINE AND CURB LINE. STORM DRAIN PLACARD MUST BE INSTALLED WITH "NO DUMPING DRAINS TO WATERWAY" READING TOWARD THE STREET. MUST INSTALL PLACARD WITH A 1/4"x1" HAMMER SET RIVET (PROVIDED BY ENGINEERING SERVICES DEPARTMENT) AND MASONRY ADHESIVE.

BMP COORDINATES

BMP	LATITUDE	LONGITUDE
STC "A"	34.092492	–117.527254
MWS "A"	34.092545	–117.526189
CDS "A"	34.092525	–117.526640
STC "B"	34.090427	–117.527661
MWS "B"	34.090318	–117.526021
CDS "B"	34.090378	–117.526705
STC "C"	34.090106	–117.524542
MWS "C"	34.090002	–117.524859
CDS "C"	34.090097	–117.524862
STC "D"	34.088995	–117.524403
MWS "D"	34.088609	–117.524381



VICINITY MAP
NOT TO SCALE

LEGEND

1. S1–STORM DRAIN SYSTEM SIGNS "NO DUMPING – DRAINS TO RIVER"
2. S3–TRASH ENCLOSURE
3. S4–EFFICIENT IRRIGATION
4. PROPRIETARY BIOFILTRATION SYSTEM
5. STORMTECH MC–4500 DETENTION CHAMBERS
6. N1–EDUCATIONAL MATERIALS
7. N3–LANDSCAPE MANAGEMENT BMPS
8. N4–BMP MAINTENANCE
9. N13–HOUSEKEEPING OF LOADING DOCKS
10. N14–CATCH BASIN INSPECTION
11. N15–SWEEPING OF PARKING LOTS
12. HYDRODYNAMIC SEPARATOR (PRETREATMENT)
13. DRAIN INSERT(S)

ONGOING OVER THE ENTIRE SITE

RD	ROOF DRAIN
STC	STORMTECH CHAMBERS
MWS	PROPRIETARY BIOFILTRATION
CDS	HYDRODYNAMIC SEPARATOR
	PROJECT BOUNDARY
	DRAINAGE AREAS
	SURFACE – FLOW DIRECTION
	SD – FLOW DIRECTION

0 40 80 160 240
SCALE:1"=80'

1. **WQMP BMP As-Built Certificate**

I hereby certify that the necessary water quality management plan best management practice devices have been constructed under my supervision and are functional to the best of my knowledge as of the date below.

Signature _____ Date _____

Wet Seal

Last Update: 11/10/21
O:\3600–3699\3687\3687CGP10–PRELIMINARY SITE AND DRAINAGE MAP.dwg

CITY OF RANCHO CUCAMONGA
PUBLIC WORKS DEPARTMENT

PREPARED FOR:
BTC III ETIWANDA COMMERCE CENTER
4675 MACARTHUR COURT, SUITE 625
NEWPORT BEACH, CA 92660
PHONE: (949) 892–4900

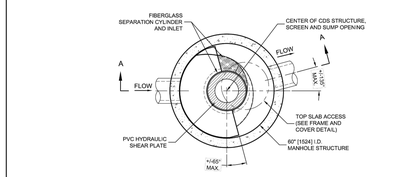
PREPARED BY:
Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521–4811 FAX(714)521–4173

Last Update: 11/10/21
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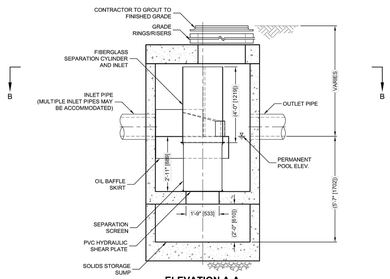
PRELIMINARY SITE AND DRAINAGE MAP
ETIWANDA DISTRIBUTION CENTER
8996 ETIWANDA AVENUE

Sheet 10 of 12

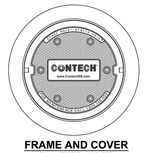
PLOT DATE: November 10, 2021



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

CDS2025-5-C DESIGN NOTES

CDS2025-5-C RATED TREATMENT CAPACITY IS 1.6 CFS [45.3 L/s], OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY IS 14.0 CFS [396 L/s]. IF THE SITE CONDITIONS EXCEED 14.0 CFS [396 L/s], AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

THE STANDARD CDS2025-5-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION

- GRATED INLET ONLY (NO INLET PIPE)
- GRATED INLET WITH INLET PIPE OR PIPES
- CURB INLET ONLY (NO INLET PIPE)
- CURB INLET WITH INLET PIPE OR PIPES
- SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
- SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID		
WATER QUALITY FLOW RATE (CFS OR L/s)		*
PEAK FLOW RATE (CFS OR L/s)		*
RETURN PERIOD OF PEAK FLOW (YRS)		*
SCREEN APERTURE (2400 OR 4700)		*

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	*	*	*
INLET PIPE 2	*	*	*
OUTLET PIPE	*	*	*

RIM ELEVATION	*

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

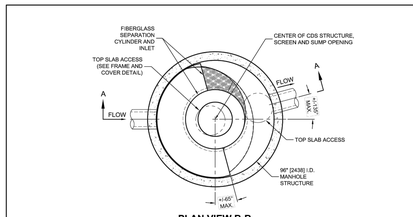
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9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CDS2025-5-C
INLINE CDS
STANDARD DETAIL

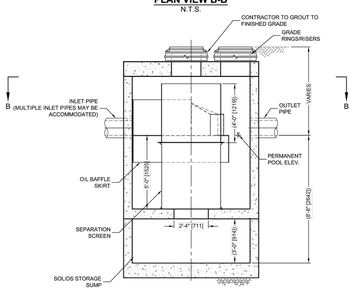
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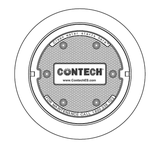
CONTECH HYDRODYNAMIC SEPARATOR CDS "C"



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

CDS4045-8-C DESIGN NOTES

CDS4045-8-C RATED TREATMENT CAPACITY IS 7.5 CFS [212.4 L/s], OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY IS 30.0 CFS [850 L/s]. IF THE SITE CONDITIONS EXCEED 30.0 CFS [850 L/s], AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

THE STANDARD CDS4045-8-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION

- GRATED INLET ONLY (NO INLET PIPE)
- GRATED INLET WITH INLET PIPE OR PIPES
- CURB INLET ONLY (NO INLET PIPE)
- CURB INLET WITH INLET PIPE OR PIPES
- SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
- SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID		
WATER QUALITY FLOW RATE (CFS OR L/s)		*
PEAK FLOW RATE (CFS OR L/s)		*
RETURN PERIOD OF PEAK FLOW (YRS)		*
SCREEN APERTURE (2400 OR 4700)		*

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	*	*	*
INLET PIPE 2	*	*	*
OUTLET PIPE	*	*	*

RIM ELEVATION	*

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

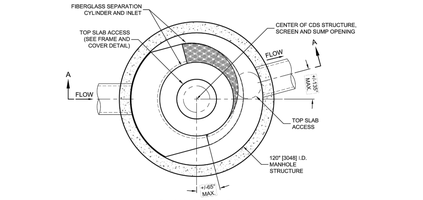
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9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
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CDS4045-8-C
INLINE CDS
STANDARD DETAIL

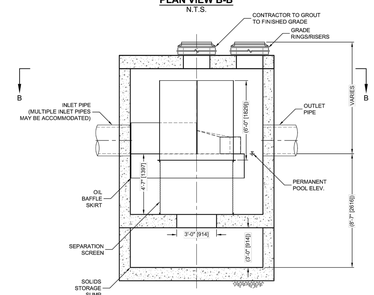
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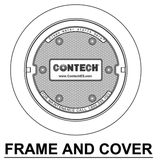
CONTECH HYDRODYNAMIC SEPARATOR CDS "A"



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

CDS5640-10-C DESIGN NOTES

CDS5640-10-C RATED TREATMENT CAPACITY IS 5.0 CFS [254.9 L/s], OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY IS 50.0 CFS [1416 L/s]. IF THE SITE CONDITIONS EXCEED 50.0 CFS [1416 L/s], AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

THE STANDARD CDS5640-10-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION

- GRATED INLET ONLY (NO INLET PIPE)
- GRATED INLET WITH INLET PIPE OR PIPES
- CURB INLET ONLY (NO INLET PIPE)
- CURB INLET WITH INLET PIPE OR PIPES
- SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
- SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID		
WATER QUALITY FLOW RATE (CFS OR L/s)		*
PEAK FLOW RATE (CFS OR L/s)		*
RETURN PERIOD OF PEAK FLOW (YRS)		*
SCREEN APERTURE (2400 OR 4700)		*

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	*	*	*
INLET PIPE 2	*	*	*
OUTLET PIPE	*	*	*

RIM ELEVATION	*

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
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CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
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800-338-1122 513-645-7000 513-645-7993 FAX

CDS5640-10-C
INLINE CDS
STANDARD DETAIL

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CONTECH HYDRODYNAMIC SEPARATOR CDS "B"

StormTech | ADS

MC-4500 CHAMBER

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots, thus maximizing land usage for private (commercial) and public applications. StormTech chambers can also be used in conjunction with Green Infrastructure, thus enhancing the performance and extending the service life of these practices.



STORMTECH MC-4500 CHAMBER
(not to scale)

Nominal Chamber Specifications

Size (L x W x H)
52" x 100" x 60"
1,321 mm x 2,540 mm x 1,524 mm

Chamber Storage
106.5 ft³ (3.01 m³)

Min. Installed Storage*
162.6 ft³ (4.60 m³)

Weight
120 lbs (54.4 kg)

Shipping
7 chambers/pallet
11 pallets/truck

STORMTECH MC-4500 END CAP
(not to scale)

Nominal End Cap Specifications

Size (L x W x H)
35.1" x 90.2" x 59.4"
891 mm x 2,291 mm x 1,509 mm

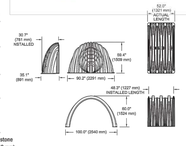
End Cap Storage
35.7 ft³ (1.01 m³)

Min. Installed Storage*
108.7 ft³ (3.08 m³)

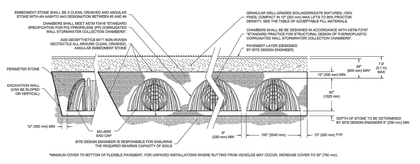
Weight
120 lbs (54.4 kg)

Shipping
7 end caps/pallet
11 pallets/truck

*Assumes a minimum of 12" (300 mm) of stone above, 9" (230 mm) of stone below chambers, 9" (230 mm) of stone between chambers/end caps and 40% stone porosity.



*Assumes a minimum of 12" (300 mm) of stone above, 9" (230 mm) of stone below, 9" (230 mm) of stone between chambers/end caps and 40% stone porosity.



StormTech | ADS

MC-4500 CHAMBER SPECIFICATIONS

STORAGE VOLUME PER CHAMBER FT³ (M³)

	Bare Chamber Storage ft³ (m³)	Chamber and Stone Foundation Depth in. (mm)			
		9" (230 mm)	12" (300 mm)	15" (375 mm)	18" (450 mm)
MC-4500 Chamber	106.5 (3.02)	162.6 (4.60)	166.3 (4.71)	169.6 (4.81)	173.6 (4.91)
MC-4500 End Cap	35.7 (1.0)	108.7 (3.08)	111.9 (3.17)	115.2 (3.26)	118.4 (3.35)

Note: Assumes 9" (230 mm) row spacing, 40% stone porosity, 12" (300 mm) stone above and includes the bare chamber/end cap volume. End cap volume assumes 12" (300 mm) stone perimeter.

AMOUNT OF STONE PER CHAMBER

ENGLISH TONS (yds³)	Stone Foundation Depth			
	9"	12"	15"	18"
MC-4500 Chamber	7.4 (5.2)	7.5 (5.5)	8.3 (5.9)	8.8 (6.2)
MC-4500 End Cap	9.6 (6.8)	10.0 (7.1)	10.4 (7.4)	10.9 (7.7)
METRIC KILOGRAMS (m³)	230 mm	300 mm	375 mm	450 mm
MC-4500 Chamber	6,681 (4.6)	7,117 (4.2)	7,552 (4.5)	7,987 (4.7)
MC-4500 End Cap	8,691 (5.2)	9,073 (5.4)	9,460 (5.6)	9,845 (5.9)

Note: Assumes 12" (300 mm) of stone above and 9" (230 mm) row spacing and 12" (300 mm) of perimeter stone in front of end caps.

VOLUME EXCAVATION PER CHAMBER YD³ (M³)

	Stone Foundation Depth			
	9" (230 mm)	12" (300 mm)	15" (375mm)	18" (450 mm)
MC-4500 Chamber	10.5 (8.0)	10.8 (8.3)	11.2 (8.5)	11.5 (8.8)
MC-4500 End Cap	9.3 (7.1)	9.6 (7.3)	9.9 (7.6)	10.2 (7.8)

Note: Assumes 9" (230 mm) of separation between chamber rows, 12" (300 mm) of perimeter in front of the end caps, and 24" (600 mm) of cover. The volume of excavation will varyas depth of cover increases.



Working on a project?
Visit us at www.stormtech.com
and utilize the StormTech Design Tool

For more information on the StormTech MC-4500 Chamber and other ADS products, please contact our Customer Service Representatives at 1-800-821-6710

THE MOST ADVANCED NAME IN WATER MANAGEMENT SOLUTIONS™

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Advanced Drainage Systems, Inc.
4640 Trueman Blvd., Hilliard, OH 43026
1-800-821-6710 www.ads-pipe.com

STORMTECH MC-4500 DETENTION CHAMBERS STC "A", "B", "C" AND "D"

Last Update: 11/10/21
O:\3600--3699\3687\3687CGP11--PRELIMINARY SITE AND DRAINAGE MAP.dwg

CITY OF RANCHO CUCAMONGA
PUBLIC WORKS DEPARTMENT

PREPARED FOR:
BTC III ETIWANDA
COMMERCE CENTER
4675 MACARTHUR COURT, SUITE 625
NEWPORT BEACH, CA 92660
PHONE: (949) 892-4900

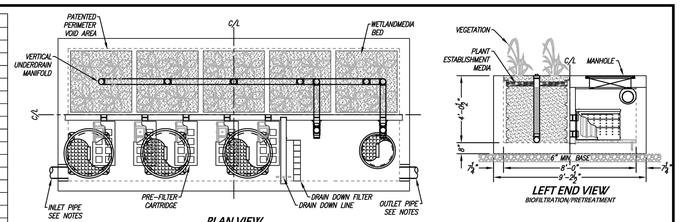
PREPARED BY:
Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173
Last Update: 11/10/21
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PRELIMINARY SITE AND DRAINAGE MAP
ETIWANDA DISTRIBUTION CENTER
8996 ETIWANDA AVENUE

Sheet 11 of 12

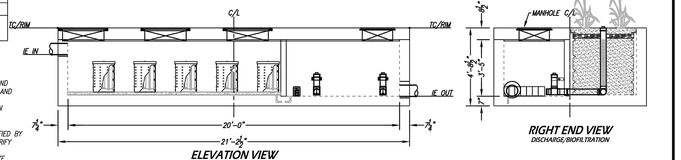
PLOT DATE: November 10, 2021

SITE SPECIFIC DATA			
PROJECT NAME			
PROJECT LOCATION			
STRUCTURE ID			
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
TREATMENT HGL AVAILABLE (FT)			
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION			
SURFACE LOAD	PARKWAY	OPEN PLANTER	PARKWAY
FRAME & COVER	#30"	N/A	#24"
WETLANDMEDIA VOLUME (CY)			11.85
WETLANDMEDIA DELIVERY METHOD			TBD
ORIFICE SIZE (DIA. INCHES)			#2.43"
MAXIMUM PICK WEIGHT (LBS)			TBD
NOTES:			



PLAN VIEW

LEFT END VIEW
BIOFILTRATION/PRETREATMENT



ELEVATION VIEW

RIGHT END VIEW
DISCHARGE/BIOFILTRATION

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION.

GENERAL NOTES

1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.

TREATMENT FLOW (CFS)	0.577
OPERATING HEAD (FT)	3.4
PRETREATMENT LOADING RATE (GPM/SF)	TBD
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

THE PRODUCT DESCRIBED MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS: 7,425,262 7,470,365 7,674,378, 8,025,810, RELATED FOREIGN PATENTS OR OTHER PATENTS PENDING

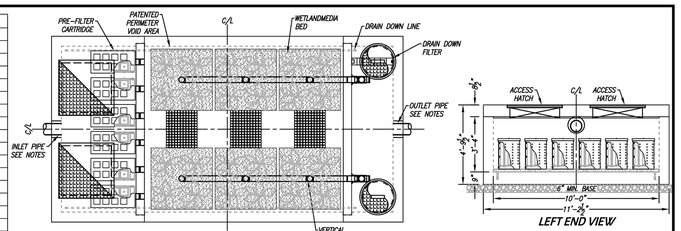
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MWS-L-8-20-V
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

BIO CLEAN PROPRIETARY BIOFILTRATION UNIT
MWS "D"

SITE SPECIFIC DATA			
PROJECT NAME			
PROJECT LOCATION			
STRUCTURE ID			
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
TREATMENT HGL AVAILABLE (FT)			
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION			
SURFACE LOAD	PARKWAY	OPEN PLANTER	PARKWAY
FRAME & COVER	36" X 36"	N/A	#24"
WETLANDMEDIA VOLUME (CY)			14.50
WETLANDMEDIA DELIVERY METHOD			TBD
ORIFICE SIZE (DIA. INCHES)			#2.67"
MAXIMUM PICK WEIGHT (LBS)			TBD
NOTES:			

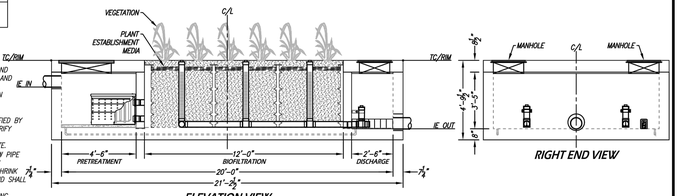


PLAN VIEW

LEFT END VIEW

INSTALLATION NOTES

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6. DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION.



ELEVATION VIEW

RIGHT END VIEW

GENERAL NOTES

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2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.

TREATMENT FLOW (CFS)	0.693
OPERATING HEAD (FT)	3.4
PRETREATMENT LOADING RATE (GPM/SF)	TBD
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

THE PRODUCT DESCRIBED MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS: 7,425,262 7,470,365 7,674,378, 8,025,810, RELATED FOREIGN PATENTS OR OTHER PATENTS PENDING

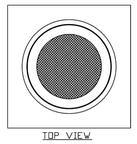
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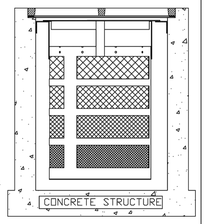
MWS-L-10-20-V
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

BIO CLEAN PROPRIETARY BIOFILTRATION UNIT
MWS "A", "B" AND "C"

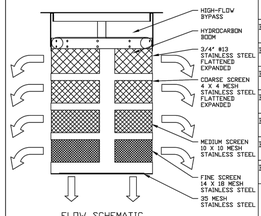
BIO CLEAN SCREENING FILTER
FOR USE IN GRATE INLETS



TOP VIEW



NOTES:
1. ALL HARDWARE, FLANGE, FRAME, SCREENS SHALL BE STAINLESS STEEL.
2. HYDROCARBON BOOM SHALL BE 2" DIAMETER AND CONNECTED MECHANICALLY TO THE FILTER FRAME WITH RAILS ALLOWING IT TO FLOAT ON THE WATER SURFACE REGARDLESS OF HEIGHT.
3. SEE PERFORMANCE REPORTS IN MANUFACTURES SPECIFICATIONS
4. OTHER STANDARD AND CUSTOM MODEL SIZES AVAILABLE – CONTACT BIO CLEAN FOR MORE INFORMATION.
5. BASED ON 3.75 OPEN AREA.
6. CONSERVATIVE SAFETY FACTOR OF 2.0.
7. CONSIDERS A LOCAL DEPRESSION PONDING DEPTH OF 6 INCHES.
8. STORAGE CAPACITY BASED ON THE BASKET HALF FULL.



FLOW SCHEMATIC

MODEL #	TREATMENT FLOW (CFS)	BYPASS FLOW (CFS)	SOLIDS STORAGE CAPACITY (CF)
BC-GRATE-MLS 12-12-12	1.19	1.55	0.27
BC-GRATE-MLS 18-18-18	4.32	3.68	1.05
BC-GRATE-MLS 24-24-24	7.67	4.83	2.41
BC-GRATE-MLS 30-30-24	12.97	6.21	3.98
BC-GRATE-MLS 25-38-24	13.53	6.59	4.16
BC-GRATE-MLS 36-36-24	19.64	7.60	5.94
BC-GRATE-MLS 48-48-18	24.84	10.13	7.92

##FLOW RATES CALCULATED USING THE FOLLOWING EQUATION

$Q = CI\sqrt{2gh}A$ C_d = COEFFICIENT OF DISCHARGE .62

DRAWING BIO CLEAN GRATE INLET FILTER DETAILS | MULTI-LEVEL SCREENING
TYPICAL MODEL DETAIL
WARRANTY 5 YEAR MANUFACTURERS

BIO CLEAN ENVIRONMENTAL SERVICES, INC.
3996 VIA EL CENTRO, OCEANSIDE, CA 92058
PHONE: 760-433-7640 FAX: 760-433-3176

DATE: 10/02/17 SCALE: SF = 1S
DRAFTSMAN: M.C.R. UNITS = INCHES

PROJECT: | DATE:
REVISIONS: | DATE:
REVISIONS: | DATE:
REVISIONS: | DATE:

Bio Clean
A Forterra Company

PAGE 1

GRATE FILTER INSERT

Last Update: 11/10/21
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CITY OF RANCHO CUCAMONGA
PUBLIC WORKS DEPARTMENT

PREPARED FOR:
BTC III ETIWANDA
COMMERCE CENTER
4675 MACARTHUR COURT, SUITE 625
NEWPORT BEACH, CA 92660
PHONE: (949) 892-4900

PREPARED BY:
Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FAX:(714)521-4173
Last Update: 11/10/21
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PRELIMINARY SITE AND DRAINAGE MAP
ETIWANDA DISTRIBUTION CENTER
8996 ETIWANDA AVENUE

Sheet 12 of 12

PLOT DATE: November 10, 2021

SEE SEPARATE HYDROLOGY MAP FOR NORTH–WESTERLY OFFSITE AREAS

SEE SEPARATE HYDROLOGY MAP FOR NORTH–WESTERLY OFFSITE AREAS

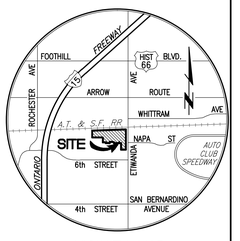
WHITTRAM AVENUE

A.T. & S.F. RAILROAD

NAPA STREET

ETIWANDA AVENUE

N.A.P.



VICINITY MAP

NOT TO SCALE

LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- SOIL TYPE "A" / SOIL TYPE "B" — SOIL TYPE BOUNDARY
- FLOW PATH
- 1.00 AC. — SUBAREA AREA
- (100) — SUBAREA NUMBER

0 50 100 200 300

SCALE: 1"=100'

Last Update: 11/10/21
O:\3600-3699\3687\3687HYD-EX.dwg

PREPARED FOR:

BTC III ETIWANDA COMMERCE CENTER
4675 MACARTHUR COURT, SUITE 625
NEWPORT BEACH, CA 92660
PHONE: (949) 892-4900

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CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FAX(714)521-4173

CITY OF RANCHO CUCAMONGA
PUBLIC WORKS DEPARTMENT

EXISTING CONDITION HYDROLOGY MAP

ETIWANDA DISTRIBUTION CENTER
8996 ETIWANDA AVENUE

Designed by		Approved by	Date
Date			
Checked by			
Date			
Designed by		Public Works Director	R.C.E. XXXXX
Date			
Checked by			
Date		Sheet 1 of 1 Sheets	

3687/1 OF 1 SHEET

Attachment D
Memorandum of Agreement of Storm Water Quality Management Plan

RECORDING REQUESTED BY
City of Rancho Cucamonga
AND WHEN RECORDED MAIL DOCUMENT TO:

NAME City of Rancho Cucamonga
Engineering Services Dept.
STREET ADDRESS 10500 Civic Center Drive
CITY, STATE & ZIP CODE Rancho Cucamonga, CA 91730

SPACE ABOVE FOR RECORDER'S USE ONLY

MEMORANDUM OF AGREEMENT OF STORM WATER QUALITY MANAGEMENT PLAN

THIS COVER SHEET ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION

File: TEI 3687

Prepared by: Thienes Engineering, Inc.

Checked by: RS/LP/VL

Assessor's Parcel Number: 0229-283-79 and -83

MEMORANDUM OF AGREEMENT OF STORM WATER QUALITY MANAGEMENT PLAN

The undersigned hereby enters into this Memorandum of Storm Water Quality Management Plan (the "Memorandum") on this _____ day of MONTH, 2022 with reference to the following:

A. The undersigned is the owner of certain real property located in the City of Rancho Cucamonga, County of San Bernardino, State of California legally described below and hereto referred to as "Exhibit A" (the "Real Property") and "Exhibit B" (Vicinity Map). Each exhibit is attached hereto and incorporated herein by this reference and also in the Water Quality Management Plan document, on file with the owner or its successors or assigns, and the City and hereinafter is referred to as "WQMP".

B. The undersigned is seeking certain permits and approvals from the City of Rancho Cucamonga ("City") for the development of the Real Property as follows: Precise Grading and Building Permit (the "Approvals").

C. In consideration of the City granting the Approvals, I the undersigned, agree to and accept the terms and conditions of the Storm Water Quality Management Plan (the "Plan") approved by the City's Engineering Services Department on MM/DD/2022, and bind the Real Property with the provisions of the Plan, which is on file with the City of Rancho Cucamonga's Engineering Services Department, File No. DRCXXXX-XXXXX, PGRXXXX-XXXXX, WQMPXXXX-XXXXX.

D. In consideration of the City granting the Approvals, the undersigned has agreed to and accepts the terms and conditions of the Plan as it relates to the Real Property and agrees that the Real Property shall be bound by and subject to the Plan.

E. The owner has chosen to install structures as required by Best Management Practices (BMPs) and to implement non-structural BMPs as described in Exhibit "C" (List of BMP Maintenance Items) and depicted in Exhibit "D" (BMP Site Map). The purpose of the WQMP is to minimize pollutants in urban runoff and to minimize other adverse impacts of urban runoff;

F. Said WQMP has been certified by the Owner and reviewed and approved by the City;

G. Said BMPs, with installation and/or implementation on private property and draining only private property, are part of a private facility with all implementation, maintenance or replacement, therefore, the sole responsibility of the Owner in accordance with the terms of this Agreement;

NOW, THEREFORE, it is hereby agreed by the undersigned as follows:

1. Owner hereby provides the City of Rancho Cucamonga's designee complete inspection access, of any duration, to the areas in which BMPs are applied and their immediate vicinity at any time, upon reasonable notice, or in the event of emergency, as determined by the City's Engineer, no advance notice, for the purpose of inspection, sampling, testing of device(s), and in case of emergency, to undertake all necessary repairs or other preventative measures at owner's expense as provided in paragraph 3 below. City shall make every effort at all times to minimize or avoid interference with Owner's use of the property.

2. The undersigned hereby agrees to the terms and conditions of the Plan, the provisions of which are incorporated by reference as though set out herein in full, and agrees that the Real Property shall be bound by and subject to the terms and conditions of the Plan, subject to minor modifications incorporated during construction, as approved by the City of Rancho Cucamonga Engineering Services Director.

3. The undersigned agrees to conduct the necessary routine maintenance of any structural devices designed into or installed as part of the storm water drainage system on the Real Property to reduce

pollutants in storm water runoff to the maximum extent practicable or to reestablish infiltration through the lifetime of the development which is the subject of Approvals.

4. The undersigned agrees to hold the City, its officials, officers, employees, volunteers, and agents free and harmless from any and all claims, demands, causes of action, costs, expenses, liability, loss, damage, or injury, in law or equity, to property or persons, arising from the imposition of the Plan by the City.

5. The agreements contained herein and the terms and conditions of the Plan are covenants intended to run with the land and shall burden the Real Property and shall be binding upon future owners of all or any portion of the Real Property. Upon a transfer of the Real Property, the transferor (including the undersigned) shall be relieved of any obligations under this Memorandum or the Plan arising from and after the effective date of the transfer.

6. The provisions of this Memorandum are intended to constitute equitable servitudes which shall encumber the Real Property and be binding upon future owners of the Real Property or any portion thereof.

7. The provisions of the Memorandum may be enforced by the City, which, among other remedies, shall have the remedy of injunctive relief and other equitable remedies.

8. This Memorandum shall not be amended, modified or terminated without the prior written consent of the City, which consent to be effective shall be contained in a document executed by the City and recorded against the Real Property.

Owner Name: BTC III Etiwanda Commerce Center

Authorized Signature _____

Print Name: Chris Sanford

Title: Senior Vice President

Date: _____

Project Description: Construction of an industrial development consisting of two (2) industrial logistics buildings on Etiwanda Avenue on approximately 70.85 acres of land.

ALL CAPACITY ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF _____

COUNTY OF _____

On _____ (Date) before me, _____ (Name and title of the officer) ,

personally appeared _____ (Name of person signing)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____
Signature of officer

(Seal)

Attachment E
Educational Materials

Non-Stormwater Discharges SC-10

Description

Non-stormwater discharges (NSWDs) are flows that do not consist entirely of stormwater. Some non-stormwater discharges do not include pollutants and may be discharged to the storm drain if local regulations allow. These include uncontaminated groundwater and natural springs. There are also some non-stormwater discharges that typically do not contain pollutants and may be discharged to the storm drain with conditions. These include: potable water sources, fire hydrant flushing, air conditioner condensate, landscape irrigation drainage and landscape watering, emergency firefighting, etc. as discussed in Section 2.

However there are certain non-stormwater discharges that pose an environmental concern. These discharges may originate from illegal dumping of industrial material or wastes and illegal connections such as internal floor drains, appliances, industrial processes, sinks, and toilets that are illegally connected to the nearby storm drainage system through on-site drainage and piping. These unauthorized discharges (examples of which may include: process waste waters, cooling waters, wash waters, and sanitary wastewater) can carry substances such as paint, oil, fuel and other automotive fluids, chemicals and other pollutants into storm drains.

Non-stormwater discharges will need to be addressed through a combination of detection and elimination. The ultimate goal is to effectively eliminate unauthorized non-stormwater discharges to the stormwater drainage system through implementation of measures to detect, correct, and enforce against illicit connections and illegal discharges of

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	
Nutrients	✓
Trash	
Metals	✓
Bacteria	✓
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

CASQA
CALIFORNIA STORMWATER QUALITY ASSOCIATION®

pollutants on streets and into the storm drain system and downstream water bodies.

Approach

Initially the Discharger must make an assessment of non-stormwater discharges to determine which types must be eliminated or addressed through BMPs. The focus of the following approach is the elimination of unauthorized non-stormwater discharges. See other BMP Fact Sheets for activity-specific pollution prevention procedures.

General Pollution Prevention Protocols

- Implement waste management controls described in SC-34 Waste Handling and Disposal.

- Develop clear protocols and lines of communication for effectively prohibiting non-stormwater discharges, especially those that are not classified as hazardous. These are often not responded to as effectively as they need to be.

- Stencil or demarcate storm drains, where applicable, to prevent illegal disposal of pollutants. Storm drain inlets should have messages such as "Dump No Waste Drains to Stream" or similar stenciled or demarcated next to them to warn against ignorant or unintentional dumping of pollutants into the storm drainage system.

- Manage and control sources of water such as hose bibs, faucets, wash racks, irrigation heads, etc. Identify hoses and faucets in the SWPPP, and post signage for appropriate use.

Non-Stormwater Discharge Investigation Protocols

Identifying the sources of non-stormwater discharges requires the Discharger to conduct an investigation of the facility at regular intervals. There are several categories of non-stormwater discharges:

- Visible, easily identifiable discharges, typically generated as surface runoff, such as uncontained surface runoff from vehicle or equipment washing; and

- Non-visible, (e.g., subsurface) discharges into the site drainage system through a variety of pathways that are not obvious.

The approach to detecting and eliminating non-stormwater discharges will vary considerably, as discussed below:

Visible and identifiable discharges

- Conduct routine inspections of the facilities and of each major activity area and identify visible evidence of unauthorized non-stormwater discharges. This may include:

  - ✓ Visual observations of actual discharges occurring;

- ✓ Evidence of surface staining, discoloring etc. that indicates that discharges have occurred;
- ✓ Pools of water in low lying areas when a rain event has not occurred; and
- ✓ Discussions with operations personnel to understand practices that may lead to unauthorized discharges.

- ☐ If evidence of non-stormwater discharges is discovered:
  - ✓ Document the location and circumstances using Worksheets 5 and 6 (Section 2 of the manual), including digital photos;
  - ✓ Identify and implement any quick remedy or corrective action (e.g., moving uncovered containers inside or to a proper location); and
  - ✓ Develop a plan to eliminate the discharge. Consult the appropriate activity-specific BMP Fact Sheet for alternative approaches to manage and eliminate the discharge.
- ☐ Consult the appropriate activity-specific BMP Fact Sheet for alternative approaches to manage and eliminate the discharge. Make sure the facility SWPPP is up-to-date and includes applicable BMPs to address the non-stormwater discharge.

Other Illegal Discharges (Non visible)

Illicit Connections

- ☐ Locate discharges from the industrial storm drainage system to the municipal storm drain system through review of "as-built" piping schematics.
- ☐ Isolate problem areas and plug illicit discharge points.
- ☐ Locate and evaluate discharges to the storm drain system.
- ☐ Visual Inspection and Inventory:
  - ✓ Inventory and inspect each discharge point during dry weather.
  - ✓ Keep in mind that drainage from a storm event can continue for a day or two following the end of a storm and groundwater may infiltrate the underground stormwater collection system.
  - ✓ Non-stormwater discharges are often intermittent and may require periodic inspections.

Review Infield Piping

- ☐ A review of the "as-built" piping schematic is a way to determine if there are any connections to the stormwater collection system.

- Inspect the path of loading/unloading area drain inlets and floor drains in older buildings.

- Never assume storm drains are connected to the sanitary sewer system.

Monitoring for investigation/detection of illegal discharges

- If a suspected illegal or unknown discharge is detected, monitoring of the discharge may help identify the content and/or suggest the source. This may be done with a field screening analysis, flow meter measurements, or by collecting a sample for laboratory analysis. Section 5 and Appendix D describe the necessary field equipment and procedures for field investigations.

- Investigative monitoring may be conducted over time. For example if, a discharge is intermittent, then monitoring might be conducted to determine the timing of the discharge to determine the source.

- Investigative monitoring may be conducted over a spatial area. For example, if a discharge is observed in a pipe, then monitoring might be conducted at accessible upstream locations in order to pinpoint the source of the discharge.

- Generally, investigative monitoring requiring collection of samples and submittal for lab analysis requires proper planning and specially trained staff.

Smoke Testing

Smoke testing of wastewater and stormwater collection systems is used to detect connections between the two piping systems. Smoke testing is generally performed at a downstream location and the smoke is forced upstream using blowers to create positive pressure. The advantage to smoke testing is that it can potentially identify multiple potential discharge sources at once.

- Smoke testing uses a harmless, non-toxic smoke cartridges developed specifically for this purpose.

- Smoke testing requires specialized equipment (e.g., cartridges, blowers) and is generally only appropriate for specially trained staff.

- A Standard Operating Procedure (SOP) for smoke testing is highly desirable. The SOP should address the following elements:

  - ✓ Proper planning and notification of nearby residents and emergency services is necessary since introducing smoke into the system may result in false alarms;

  - ✓ During dry weather, the stormwater collection system is filled with smoke and then traced back to sources;

- ✓ Temporary isolation of segments of pipe using sand bags is often needed to force the smoke into leaking pipes; and
- ✓ The appearance of smoke in a waste vent pipe, at a sewer manhole, or even the base of a toilet indicates that there may be a connection between the sanitary and storm water systems.

- Most municipal wastewater agencies will have necessary staff and equipment to conduct smoke testing and they should be contacted if cross connections with the sanitary sewer are suspected. See SC-44 Drainage System Maintenance for more information.

Dye Testing

- Dye testing is typically performed when there is a suspected specific pollutant source and location (i.e., leaking sanitary sewer) and there is evidence of dry weather flows in the stormwater collection system.
- Dye is released at a probable upstream source location, either the facility's sanitary or process wastewater system. The dye must be released with a sufficient volume of water to flush the system.
- Operators then visually examine the downstream discharge points from the stormwater collection system for the presence of the dye.
- Dye testing can be performed informally using commercially available products in order to conduct an initial investigation for fairly obvious cross-connections.
- More detailed dye testing should be performed by properly trained staff and follow SOPs. Specialized equipment such as fluorometers may be necessary to detect low concentrations of dye.
- Most municipal wastewater agencies will have necessary staff and equipment to conduct dye testing and they should be contacted if cross connections with the sanitary sewer are suspected.

TV Inspection of Drainage System

- Closed Circuit Television (CCTV) can be employed to visually identify illicit connections to the industrial storm drainage system. Two types of CCTV systems are available: (1) a small specially designed camera that can be manually pushed on a stiff cable through storm drains to observe the interior of the piping, or (2) a larger remote operated video camera on treads or wheels that can be guided through storm drains to view the interior of the pipe.
- CCTV systems often include a high-pressure water jet and camera on a flexible cable. The water jet cleans debris and biofilm off the inside of pipes so the camera can take video images of the pipe condition.

- CCTV units can detect large cracks and other defects such as offsets in pipe ends caused by root intrusions or shifting substrate.
- CCTV can also be used to detect dye introduced into the sanitary sewer.
- CCTV inspections require specialized equipment and properly trained staff and are generally best left to specialized contractors or municipal public works staff.

Illegal Dumping

- Substances illegally dumped on streets and into the storm drain systems and creeks may include paints, used oil and other automotive fluids, construction debris, chemicals, fresh concrete, leaves, grass clippings, and pet wastes. These wastes can cause stormwater and receiving water quality problems as well as clog the storm drain system itself.
- Establish a system for tracking incidents. The system should be designed to identify the following:
  - ✓ Illegal dumping hot spots;
  - ✓ Types and quantities (in some cases) of wastes;
  - ✓ Patterns in time of occurrence (time of day/night, month, or year);
  - ✓ Mode of dumping (abandoned containers, "midnight dumping" from moving vehicles, direct dumping of materials, accidents/spills);
  - ✓ An anonymous tip/reporting mechanism; and
  - ✓ Evidence of responsible parties (e.g., tagging, encampments, etc.).
- One of the keys to success of reducing or eliminating illegal dumping is increasing the number of people at the facility who are aware of the problem and who have the tools to at least identify the incident, if not correct it. Therefore, train field staff to recognize and report the incidents.

Once a site has been cleaned:

- Post "No Dumping" signs with a phone number for reporting dumping and disposal.
- Landscaping and beautification efforts of hot spots may also discourage future dumping, as well as provide open space and increase property values.
- Lighting or barriers may also be needed to discourage future dumping.
- See fact sheet SC-11 Spill Prevention, Control, and Cleanup.

Inspection

- Regularly inspect and clean up hot spots and other storm drainage areas where illegal dumping and disposal occurs.
- Conduct field investigations of the industrial storm drain system for potential sources of non-stormwater discharges.
- Pro-actively conduct investigations of high priority areas. Based on historical data, prioritize specific geographic areas and/or incident type for pro-active investigations.



Spill and Leak Prevention and Response

- On paved surfaces, clean up spills with as little water as possible. Use a rag for small spills, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be sent to a certified laundry (rags) or disposed of as hazardous waste.
- Never hose down or bury dry material spills. Sweep up the material and dispose of properly.
- Use adsorbent materials on small spills rather than hosing down the spill. Remove the adsorbent materials promptly and dispose of properly.
- For larger spills, a private spill cleanup company or Hazmat team may be necessary.
- See SC-11 Spill Prevention Control and Cleanup.



Employee Training Program

- Training of technical staff in identifying and documenting illegal dumping incidents is required. The frequency of training must be presented in the SWPPP, and depends on site-specific industrial materials and activities.
- Consider posting a quick reference table near storm drains to reinforce training.
- Train employees to identify non-stormwater discharges and report discharges to the appropriate departments.
- Educate employees about spill prevention and cleanup.
- Well-trained employees can reduce human errors that lead to accidental releases or spills. The employee should have the tools and knowledge to immediately begin cleaning up a spill should one occur. Employees should be familiar with the Spill Prevention Control and Countermeasure Plan. Employees should be able to identify work/jobs with high potential for spills and suggest methods to reduce possibility.
- Determine and implement appropriate outreach efforts to reduce non-permissible non-stormwater discharges.

- Conduct spill response drills annually (if no events occurred) in order to evaluate the effectiveness of the plan.
- When a responsible party is identified, educate the party on the impacts of his or her actions.



Quality Assurance and Record Keeping

Performance Evaluation

- Annually review internal investigation results; assess whether goals were met and what changes or improvements are necessary.
- Obtain feedback from personnel assigned to respond to, or inspect for, illicit connections and illegal dumping incidents.
- Develop document and data management procedures.
- A database is useful for defining and tracking the magnitude and location of the problem.
- Report prohibited non-stormwater discharges observed during the course of normal daily activities so they can be investigated, contained, and cleaned up or eliminated.
- Document that non-stormwater discharges have been eliminated by recording tests performed, methods used, dates of testing, and any on-site drainage points observed.
- Annually document and report the results of the program.
- Maintain documentation of illicit connection and illegal dumping incidents, including significant conditionally exempt discharges that are not properly managed.
- Document training activities.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds."

- Many facilities do not have accurate, up-to-date 'as-built' plans or drawings which may be necessary in order to conduct non-stormwater discharge assessments.
  - ✓ Online tools such as Google Earth™ can provide an aerial view of the facility and may be useful in understanding drainage patterns and potential sources of non-stormwater discharges
  - ✓ Local municipal jurisdictions may have useful drainage systems maps.

- Video surveillance cameras are commonly used to secure the perimeter of industrial facilities against break-ins and theft. These surveillance systems may also be useful for capturing illegal dumping activities. Minor, temporary adjustments to the field of view of existing surveillance camera systems to target known or suspected problem areas may be a cost-effective way of capturing illegal dumping activities and identifying the perpetrators.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Capital facility cost requirements may be minimal unless cross-connections to storm drains are detected.
- Indoor floor drains may require re-plumbing if cross-connections are detected.
- Leaky sanitary sewers will require repair or replacement which can have significant costs depending on the size and industrial activity at the facility.

Maintenance (including administrative and staffing)

- The primary effort is for staff time and depends on how aggressively a program is implemented.
- Costs for containment, and disposal of any leak or discharge is borne by the Discharger.
- Illicit connections can be difficult to locate especially if there is groundwater infiltration.
- Illegal dumping and illicit connection violations requires technical staff to detect and investigate them.

Supplemental Information

Permit Requirements

The IGP authorizes certain Non-Storm Water Discharges (NSWDs) provided BMPs are included in the SWPPP and implemented to:

- Reduce or prevent the contact of authorized NSWDs with materials or equipment that are potential sources of pollutants;
- Reduce, to the extent practicable, the flow or volume of authorized NSWDs;
- Ensure that authorized NSWDs do not contain quantities of pollutants that cause or contribute to an exceedance of a water quality standards (WQS); and,

- Reduce or prevent discharges of pollutants in authorized NSWDs in a manner that reflects best industry practice considering technological availability and economic practicability and achievability."

References and Resources

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Sacramento Stormwater Management Program, *Best Management Practices for Industrial Storm Water Pollution Control*, Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

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Southern California Coastal Water Research Project, 2013. *The California Microbial Source Identification Manual: A Tiered Approach to Identifying Fecal Pollution Sources to Beaches,* Technical Report 804.

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WEF Press Alexandria, Virginia, 2009.Existing Sewer Evaluation and Rehabilitation: *WEF Manual of Practice No. FD-6 ASCE/EWRI Manuals and Reports on Engineering Practice No. 62, Third Edition.*

Spill Prevention, Control & Cleanup SC-11

Description

Many activities that occur at an industrial or commercial site have the potential to cause accidental spills. Preparation for accidental spills, with proper training and reporting systems implemented, can minimize the discharge of pollutants to the environment.

Spills and leaks are one of the largest contributors of stormwater pollutants. Spill prevention and control plans are applicable to any site at which hazardous materials are stored or used. An effective plan should have spill prevention and response procedures that identify hazardous material storage areas, specify material handling procedures, describe spill response procedures, and provide locations of spill clean-up equipment and materials. The plan should take steps to identify and characterize potential spills, eliminate and reduce spill potential, respond to spills when they occur in an effort to prevent pollutants from entering the stormwater drainage system, and train personnel to prevent and control future spills. An adequate supply of spill clean-up materials must be maintained onsite.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	
Nutrients	
Trash	
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

Approach

General Pollution Prevention Protocols

- ☐ Develop procedures to prevent/mitigate spills to storm drain systems.
- ☐ Develop and standardize reporting procedures, containment, storage, and disposal activities, documentation, and follow-up procedures.
- ☐ Establish procedures and/or controls to minimize spills and leaks. The procedures should address:
  - ✓ Description of the facility, owner and address, activities, chemicals, and quantities present;

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- ✓ Facility map of the locations of industrial materials;
- ✓ Notification and evacuation procedures;
- ✓ Cleanup instructions;
- ✓ Identification of responsible departments; and
- ✓ Identify key spill response personnel.

- ☐ Recycle, reclaim, or reuse materials whenever possible. This will reduce the amount of process materials that are brought into the facility.



Spill and Leak Prevention and Response

Spill Prevention

- ☐ Develop procedures to prevent/mitigate spills to storm drain systems. Develop and standardize reporting procedures, containment, storage, and disposal activities, documentation, and follow-up procedures.

- ☐ If illegal dumping is observed at the facility:

  - ✓ Post "No Dumping" signs with a phone number for reporting illegal dumping and disposal. Signs should also indicate fines and penalties applicable for illegal dumping.
  - ✓ Landscaping and beautification efforts may also discourage illegal dumping.
  - ✓ Bright lighting and/or entrance barriers may also be needed to discourage illegal dumping.

- ☐ Store and contain liquid materials in such a manner that if the container is ruptured, the contents will not discharge, flow, or be washed into the storm drainage system, surface waters, or groundwater.

- ☐ If the liquid is oil, gas, or other material that separates from and floats on water, install a spill control device (such as a tee section) in the catch basins that collects runoff from the storage tank area.



Preventative Maintenance

- ☐ Place drip pans or absorbent materials beneath all mounted taps, and at all potential drip and spill locations during filling and unloading of tanks. Any collected liquids or soiled absorbent materials must be reused/recycled or properly disposed.

- ☐ Store and maintain appropriate spill cleanup materials in a location known to all near the tank storage area; and ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.

- ☐ Sweep and clean the storage area monthly if it is paved, *do not hose down the area to a storm drain.*

- ☐ Check tanks (and any containment sumps) daily for leaks and spills. Replace tanks that are leaking, corroded, or otherwise deteriorating with tanks in good condition. Collect all spilled liquids and properly dispose of them.

- ☐ Label all containers according to their contents (e.g., solvent, gasoline).

- ☐ Label hazardous substances regarding the potential hazard (corrosive, radioactive, flammable, explosive, poisonous).

- ☐ Prominently display required labels on transported hazardous and toxic materials (per US DOT regulations).

- ☐ Identify key spill response personnel.

Spill Response

- ☐ Clean up leaks and spills immediately.

- ☐ Place a stockpile of spill cleanup materials where it will be readily accessible (e.g., near storage and maintenance areas).

- ☐ On paved surfaces, clean up spills with as little water as possible.

  - ✓ Use a rag for small spills, a damp mop for general cleanup, and absorbent material for larger spills.

  - ✓ If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be sent to a certified laundry (rags) or disposed of as hazardous waste.

  - ✓ If possible use physical methods for the cleanup of dry chemicals (e.g., brooms, shovels, sweepers, or vacuums).

- ☐ Never hose down or bury dry material spills. Sweep up the material and dispose of properly.

- ☐ Chemical cleanups of material can be achieved with the use of adsorbents, gels, and foams. Use adsorbent materials on small spills rather than hosing down the spill. Remove the adsorbent materials promptly and dispose of properly.

- ☐ For larger spills, a private spill cleanup company or Hazmat team may be necessary.

Reporting

- Report spills that pose an immediate threat to human health or the environment to the Regional Water Quality Control Board or local authority as location regulations dictate.
- Federal regulations require that any oil spill into a water body or onto an adjoining shoreline be reported to the National Response Center (NRC) at 800-424-8802 (24 hour).
- Report spills to 911 for dispatch and clean-up assistance when needed. Do not contact fire agencies directly.
- Establish a system for tracking incidents. The system should be designed to identify the following:
  - ✓ Types and quantities (in some cases) of wastes;
  - ✓ Patterns in time of occurrence (time of day/night, month, or year);
  - ✓ Mode of dumping (abandoned containers, "midnight dumping" from moving vehicles, direct dumping of materials, accidents/spills);
  - ✓ Clean-up procedures; and
  - ✓ Responsible parties.



Employee Training Program

- Educate employees about spill prevention and cleanup.
- Well-trained employees can reduce human errors that lead to accidental releases or spills:
  - ✓ The employee should have the tools and knowledge to immediately begin cleaning up a spill should one occur; and
  - ✓ Employees should be familiar with the Spill Prevention Control and Countermeasure Plan.
- Employees should be educated about aboveground storage tank requirements. Employees responsible for aboveground storage tanks and liquid transfers should be thoroughly familiar with the Spill Prevention Control and Countermeasure Plan and the plan should be readily available.
- Train employees to recognize and report illegal dumping incidents.

Other Considerations (Limitations and Regulations)

- State regulations exist for facilities with a storage capacity of 10,000 gallons or more of petroleum to prepare a Spill Prevention Control and Countermeasure (SPCC) Plan (Health & Safety Code Chapter 6.67).
- State regulations also exist for storage of hazardous materials (Health & Safety Code Chapter 6.95), including the preparation of area and business plans for emergency response to the releases or threatened releases.
- Consider requiring smaller secondary containment areas (less than 200 sq. ft.) to be connected to the sanitary sewer, prohibiting any hard connections to the storm drain.

Requirements

Costs (including capital and operation & maintenance)

- Will vary depending on the size of the facility and the necessary controls.
- Prevention of leaks and spills is inexpensive. Treatment and/or disposal of contaminated soil or water can be quite expensive.

Maintenance (including administrative and staffing)

- Develop spill prevention and control plan, provide and document training, conduct inspections of material storage areas, and supply spill kits.
- Extra time is needed to properly handle and dispose of spills, which results in increased labor costs.

Supplemental Information

Further Detail of the BMP

Reporting

Record keeping and internal reporting represent good operating practices because they can increase the efficiency of the facility and the effectiveness of BMPs. A good record keeping system helps the facility minimize incident recurrence, correctly respond with appropriate cleanup activities, and comply with legal requirements. A record keeping and reporting system should be set up for documenting spills, leaks, and other discharges, including discharges of hazardous substances in reportable quantities. Incident records describe the quality and quantity of non-stormwater discharges to the storm sewer. These records should contain the following information:

- Date and time of the incident;
- Weather conditions;
- Duration of the spill/leak/discharge;

- Cause of the spill/leak/discharge;
- Response procedures implemented;
- Persons notified; and
- Environmental problems associated with the spill/leak/discharge.

Separate record keeping systems should be established to document housekeeping and preventive maintenance inspections, and training activities. All housekeeping and preventive maintenance inspections should be documented. Inspection documentation should contain the following information:

- Date and time the inspection was performed;
- Name of the inspector;
- Items inspected;
- Problems noted;
- Corrective action required; and
- Date corrective action was taken.

Other means to document and record inspection results are field notes, timed and dated photographs, videotapes, and drawings and maps.

Aboveground Tank Leak and Spill Control

Accidental releases of materials from aboveground liquid storage tanks present the potential for contaminating stormwater with many different pollutants. Materials spilled, leaked, or lost from tanks may accumulate in soils or on impervious surfaces and be carried away by stormwater runoff.

The most common causes of unintentional releases are:

- Installation problems;
- Failure of piping systems (pipes, pumps, flanges, couplings, hoses, and valves);
- External corrosion and structural failure;
- Spills and overfills due to operator error; and
- Leaks during pumping of liquids or gases from truck or rail car to a storage tank or vice versa.

Storage of reactive, ignitable, or flammable liquids should comply with the Uniform Fire Code and the National Electric Code. Practices listed below should be employed to enhance the code requirements:

- Tanks should be placed in a designated area.
- Tanks located in areas where firearms are discharged should be encapsulated in concrete or the equivalent.
- Designated areas should be impervious and paved with Portland cement concrete, free of cracks and gaps, in order to contain leaks and spills.
- Liquid materials should be stored in UL approved double walled tanks or surrounded by a curb or dike to provide the volume to contain 10 percent of the volume of all of the containers or 110 percent of the volume of the largest container, whichever is greater. The area inside the curb should slope to a drain.
- For used oil or dangerous waste, a dead-end sump should be installed in the drain.
- All other liquids should be drained to the sanitary sewer if available. The drain must have a positive control such as a lock, valve, or plug to prevent release of contaminated liquids.
- Accumulated stormwater in petroleum storage areas should be passed through an oil/water separator.

Maintenance is critical to preventing leaks and spills. Conduct routine inspections and:

- Check for external corrosion and structural failure.
- Check for spills and overfills due to operator error.
- Check for failure of piping system (pipes, pumps, flanges, coupling, hoses, and valves).
- Check for leaks or spills during pumping of liquids or gases from truck or rail car to a storage facility or vice versa.
- Visually inspect new tank or container installation for loose fittings, poor welding, and improper or poorly fitted gaskets.
- Inspect tank foundations, connections, coatings, and tank walls and piping system. Look for corrosion, leaks, cracks, scratches, and other physical damage that may weaken the tank or container system.
- Frequently relocate accumulated stormwater during the wet season.

- Periodically conduct integrity testing by a qualified professional.

Vehicle Leak and Spill Control

Major spills on roadways and other public areas are generally handled by highly trained Hazmat teams from local fire departments or environmental health departments. The measures listed below pertain to leaks and smaller spills at vehicle maintenance shops.

In addition to implementing the spill prevention, control, and clean up practices above, use the following measures related to specific activities:

Vehicle and Equipment Maintenance

- Perform all vehicle fluid removal or changing inside or under cover to prevent the run-on of stormwater and the runoff of spills.
- Regularly inspect vehicles and equipment for leaks, and repair immediately.
- Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
- Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- Immediately drain all fluids from wrecked vehicles.
- Store wrecked vehicles or damaged equipment under cover.
- Place drip pans or absorbent materials under heavy equipment when not in use.
- Use absorbent materials on small spills rather than hosing down the spill.
- Remove the adsorbent materials promptly and dispose of properly.
- Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- Oil filters disposed of in trashcans or dumpsters can leak oil and contaminate stormwater. Place the oil filter in a funnel over a waste oil recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask your oil supplier or recycler about recycling oil filters.
- Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries, even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

- Design the fueling area to prevent the run-on of stormwater and the runoff of spills:

  Cover fueling area if possible.

  Use a perimeter drain or slope pavement inward with drainage to a sump.

  Pave fueling area with concrete rather than asphalt.

- If dead-end sump is not used to collect spills, install an oil/water separator.
- Install vapor recovery nozzles to help control drips as well as air pollution.
- Discourage "topping-off' of fuel tanks.
- Use secondary containment when transferring fuel from the tank truck to the fuel tank.
- Use absorbent materials on small spills and general cleaning rather than hosing down the area. Remove the absorbent materials promptly.
- Carry out all Federal and State requirements regarding underground storage tanks, or install above ground tanks.
- Do not use mobile fueling of mobile industrial equipment around the facility; rather, transport the equipment to designated fueling areas.
- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Train employees in proper fueling and cleanup procedures.

Industrial Spill Prevention Response

For the purposes of developing a spill prevention and response program to meet the stormwater regulations, facility managers should use information provided in this fact sheet and the spill prevention/response portions of the fact sheets in this handbook, for specific activities.

The program should:

- Integrate with existing emergency response/hazardous materials programs (e.g., Fire Department).
- Develop procedures to prevent/mitigate spills to storm drain systems.
- Identify responsible departments.

- Develop and standardize reporting procedures, containment, storage, and disposal activities, documentation, and follow-up procedures.
- Address spills at municipal facilities, as well as public areas.
- Provide training concerning spill prevention, response and cleanup to all appropriate personnel.

References and Resources

California's Nonpoint Source Program Plan. http://www.swrcb.ca.gov/nps/index.html.

Clark County Storm Water Pollution Control Manual. Available online at: http://www.co.clark.wa.us/pubworks/bmpman.pdf.

King County Storm Water Pollution Control Manual. Available online at: http://dnr.metrokc.gov/wlr/dss/spcm.htm.

Orange County Stormwater Program, Best Management Practices for Industrial/Commercial Business Activities. Available online at: http://ocwatersheds.com/documents/bmp/industrialcommercialbusinessesactivities

Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp.org.

The Stormwater Managers Resource Center. http://www.stormwatercenter.net/.

Outdoor Loading/Unloading SC-30

Description

The loading/unloading of materials usually takes place outside on docks or terminals; therefore, materials spilled, leaked, or lost during loading/unloading may collect in the soil or on other surfaces and have the potential to be carried away by wind, stormwater runoff or when the area is cleaned. Additionally, rainfall may wash pollutants from machinery used to unload or move materials. Implementation of the following protocols will prevent or reduce the discharge of pollutants to stormwater from outdoor loading/unloading of materials.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- Park tank trucks or delivery vehicles in designated areas so that spills or leaks can be contained.
- Limit exposure of material to rainfall whenever possible.
- Prevent stormwater run-on.
- Check equipment regularly for leaks.

Good Housekeeping

- Develop an operations plan that describes procedures for loading and/or unloading.
- Conduct loading and unloading in dry weather if possible.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	✓
Nutrients	✓
Trash	
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Cover designated loading/unloading areas to reduce exposure of materials to rain.
- Consider placing a seal or door skirt between delivery vehicles and building to prevent exposure to rain.
- Design loading/unloading area to prevent stormwater run-on, which would include grading or berming the area, and position roof downspouts so they direct stormwater away from the loading/unloading areas.
- Have employees load and unload all materials and equipment in covered areas such as building overhangs at loading docks if feasible.
- Load/unload only at designated loading areas.
- Use drip pans underneath hose and pipe connections and other leak-prone spots during liquid transfer operations, and when making and breaking connections. Several drip pans should be stored in a covered location near the liquid transfer area so that they are always available, yet protected from precipitation when not in use. Drip pans can be made specifically for railroad tracks. Drip pans must be cleaned periodically, and drip collected materials must be disposed of properly.
- Pave loading areas with concrete instead of asphalt.
- Avoid placing storm drains inlets in the area.
- Grade and/or berm the loading/unloading area with drainage to sump; regularly remove materials accumulated in sump.



Spill Response and Prevention Procedures

- Keep your spill prevention and control plan up-to-date or have an emergency spill cleanup plan readily available, as applicable.
- Contain leaks during transfer.
- Store and maintain appropriate spill cleanup materials in a location that is readily accessible and known to all employees.
- Ensure that employees are familiar with the site's spill control plan and proper spill cleanup procedures.
- Use drip pans or comparable devices when transferring oils, solvents, and paints.



Material Handling and Waste Management

- Spot clean leaks and drips routinely to prevent runoff of spillage.
- Do not pour liquid wastes into floor drains, sinks, outdoor storm drain inlets, or other storm drains or sewer connections.

- Do not put used or leftover cleaning solutions, solvents, and automotive fluids in the storm drain or sanitary sewer.
- Collect leaking or dripping fluids in drip pans or containers. Fluids are easier to recycle if kept separate.
- Promptly transfer used fluids to the proper waste or recycling drums. Do not leave drip pans or other open containers lying around.
- Minimize the possibility of stormwater pollution from outside waste receptacles by doing at least one of the following:
  - ✓ Use only watertight waste receptacle(s) and keep the lid(s) closed.
  - ✓ Grade and pave the waste receptacle area to prevent run-on of stormwater.
  - ✓ Install a roof over the waste receptacle area.
  - ✓ Install a low containment berm around the waste receptacle area.
  - ✓ Use and maintain drip pans under waste receptacles.
- Post "no littering" signs.
- Perform work area clean-up and dry sweep after daily operations.



Employee Training Program

- Train employees (e.g., fork lift operators) and contractors on proper spill containment and cleanup.
- Have employees trained in spill containment and cleanup present during loading/unloading.
- Train employees in proper handling techniques during liquid transfers to avoid spills.
- Make sure forklift operators are properly trained on loading and unloading procedures.



Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document activities performed, quantities of materials removed, and improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.
- Keep accurate logs of daily clean-up operations.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds."

- Space and time limitations may preclude all transfers from being performed indoors or under cover.
  - ✓ Designate specific areas for outdoor loading and unloading.
  - ✓ Require employees to understand and follow spill and leak prevention BMPs.
- It may not be possible to conduct transfers only during dry weather.
  - ✓ Limit materials and equipment rainfall exposure to all extents practicable.
  - ✓ Require employees to understand and follow spill and leak prevention BMPs.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

Many facilities will already have indoor or covered areas where loading/unloading takes place and will require no additional capital expenditures.

If outdoor activities are required, construction of berms or other means to retain spills and leaks may require appropriate constructed systems for containment. These containment areas may require significant new capital investment.

Capital investments will likely be required at some sites if adequate cover and containment facilities do not exist and can vary significantly depending upon site conditions.

Maintenance

Most of the operations and maintenance activities associated with implementing this BMP are integrally linked to routine operations as previously described. Therefore additional O&M is not required.

- Conduct regular inspections and make repairs and improvements as necessary.
- Check loading and unloading equipment regularly for leaks.
- Conduct regular broom dry-sweeping of area. Do not wash with water.

Supplemental Information

Loading and Unloading of Liquids

- Loading or unloading of liquids should occur in the manufacturing building so that any spills that are not completely retained can be discharged to the sanitary sewer,

treatment plant, or treated in a manner consistent with local sewer authorities and permit requirements.

- For loading and unloading tank trucks to above and below ground storage tanks, the following procedures should be used:
  - ✓ The area where the transfer takes place should be paved. If the liquid is reactive with the asphalt, Portland cement should be used to pave the area.
  - ✓ The transfer area should be designed to prevent run-on of stormwater from adjacent areas. Sloping the pad and using a curb, like a speed bump, around the uphill side of the transfer area should reduce run-on.
  - ✓ The transfer area should be designed to prevent runoff of spilled liquids from the area. Sloping the area to a drain should prevent runoff. The drain should be connected to a dead-end sump or to the sanitary sewer. A positive control valve should be installed on the drain.
- For transfer from rail cars to storage tanks that must occur outside, use the following procedures:
  - ✓ Drip pans should be placed at locations where spillage may occur, such as hose connections, hose reels, and filler nozzles. Use drip pans when making and breaking connections.
  - ✓ Drip pan systems should be installed between the rails to collect spillage from tank cars.

References and Resources

Minnesota Pollution Control Agency, *Industrial Stormwater Best Management Practices Guidebook BMP 26 Fueling and Liquid Loading/Unloading Operations.* Available online at: http://www.pca.state.mn.us/index.php/view-document.html?gid=10557.

New Jersey Department of Environmental Protection, 2013. *Basic Industrial Stormwater General Permit Guidance Document NJPDES General Permit No NJ0088315.* Available online at: http://www.nj.gov/dep/dwq/pdf/5G2_guidance_color.pdf.

Orange County Stormwater Program, Best Management Practices for Industrial/Commercial Business Activities. Available online at: http://ocwatersheds.com/documents/bmp/industrialcommercialbusinessesactivities.

Oregon Department of Environmental Quality, 2013. *Industrial Stormwater Best Management Practices Manual- BMP 26 Fueling and Liquid Loading/Unloading Operations.* Available online at: http://www.deq.state.or.us/wq/wqpermit/docs/IndBMP021413.pdf.

Sacramento Stormwater Management Program, *Best Management Practices for Industrial Storm Water Pollution Control*. Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

Sacramento County Environmental Management Stormwater Program: *Best Management Practices*. Available online at: http://www.emd.saccounty.net/EnvHealth/Stormwater/Stormwater-BMPs.html.

Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp-w2k.com/.

US EPA. National Pollutant Discharge Elimination System – Industrial Fact Sheet Series for Activities Covered by EPA's Multi Sector General Permit. Available online at: http://cfpub.epa.gov/npdes/stormwater/swsectors.cfm.

Outdoor Equipment Operations SC-32

Description

Outside process equipment operations and maintenance can contaminate stormwater runoff. Activities, such as grinding, painting, coating, sanding, degreasing or parts cleaning, landfills and waste piles, and solid waste treatment and disposal are examples of process operations that can lead to contamination of stormwater runoff. The targeted constituents will vary for each site depending on the operation being performed.

Approach

Implement source control BMPs to limit exposure of outdoor equipment to direct precipitation and stormwater run-on. Refer to SC-22 Vehicle and Equipment Repair for additional information.

General Pollution Prevention Protocols

- ☐ Perform the activity during dry periods whenever possible.
- ☐ Install secondary containment measures where leaks and spills may occur.
- ☐ Use non-toxic chemicals for maintenance and minimize or eliminate the use of solvents.
- ☐ Connect process equipment area to public sanitary sewer or facility wastewater treatment system when possible. Some jurisdictions require that secondary containment areas be connected to the sanitary sewer, prohibiting any hard connections to the storm drain.



Good Housekeeping

- ☐ Manage materials and waste properly (see Material Handling and Waste Management) to reduce adverse impacts on stormwater quality.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*

Targeted Constituents	
Sediment	✓
Nutrients	✓
Trash	✓
Metals	✓
Bacteria	✓
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	✓
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Cover the work area with a permanent roof if possible.
- Use drop cloths for sanding and painting operations.
- Use a vacuum for fine particle clean-up in pavement cracks and crevices.
- Minimize contact of stormwater with outside process equipment operations through berming and drainage routing (run-on prevention).
- "Spot clean" leaks and drips routinely. Leaks are not cleaned up until the absorbent is picked up and disposed of properly.
- Paint signs on storm drain inlets to indicate that they are not to receive liquid or solid wastes.
- Use roll down or permanent walls when windy/breezy to prevent wind transport of particulates/pollutants.



Preventative Maintenance

- Design outdoor equipment areas to prevent stormwater runoff and spills. Use a perimeter drain or slope pavement inward with drainage to sump.
- Dry clean the work area regularly. Do not wash outdoor equipment with water if there is a direct connection to the storm drain.
- Pave area with concrete rather than asphalt.
- Inspect outdoor equipment regularly for leaks or spills. Also check for structural failure, spills and overfills due to operator error, and/or failure of piping system.
- Inspect and clean, if necessary, storm drain inlets and catch basins within the outdoor equipment area before October 1 each year.



Spill Response and Prevention Procedures

- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Have employees trained in emergency spill cleanup procedures present when dangerous waste, liquid chemicals, or other wastes are delivered.
- Place a stockpile of spill cleanup materials where it will be readily accessible.
- Prevent operator errors by using engineering safe guards and thus reducing accidental releases of pollutant.



Material Handling and Waste Management

- Do not pour liquid wastes into floor drains, sinks, outdoor storm drain inlets, or other storm drain or sewer connections.
- Collect leaking or dripping fluids in drip pans or containers. Fluids are easier to recycle if kept separate.
- Promptly transfer used fluids to the proper waste or recycling drums. Do not leave drip pans or other open containers lying around.
- Minimize the possibility of stormwater pollution from outside waste receptacles by doing at least one of the following:
  - ✓ Use only watertight waste receptacle(s) and keep the lid(s) closed.
  - ✓ Grade and pave the waste receptacle area to prevent run-on of stormwater.
  - ✓ Install a roof over the waste receptacle area.



Employee Training Program

- Educate employees about pollution prevention measures and goals.
- Train employees on proper equipment operation and maintenance procedures.
- Train all employees upon hiring and annually thereafter on proper methods for handling and disposing of waste. Ensure that all employees understand stormwater discharge prohibitions, wastewater discharge requirements, and these best management practices.
- Use a training log or similar method to document training.
- Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.



Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for outdoor equipment, types and quantities of materials removed and disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds."

- Providing cover over outdoor equipment may be impractical or cost-prohibitive.
  - ✓ Operate outdoor equipment only during periods of dry weather.
- Regular operations and time limitations may require outdoor activities during wet weather.
  - ✓ Designate specific areas for outdoor activities.
  - ✓ Allow time for work area clean-up after each shift.
  - ✓ Require employees to understand and follow preventive maintenance and spill and leak prevention BMPs.
  - ✓ Design and install secondary containment and good housekeeping BMPs for outdoor equipment area.
- Storage sheds often must meet building and fire code requirements.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Many facilities will already have indoor covered areas where vehicle and equipment repairs take place and will require no additional capital expenditures.
- If outdoor activities are required, construction of berms or other means to retain spills and leaks may require appropriate constructed systems for containment. These containment areas may require significant new capital investment.
- Capital investments will likely be required at some sites if adequate cover and containment facilities do not exist and can vary significantly depending upon site conditions.

Maintenance

- Most of the operations and maintenance activities associated with implementing this BMP are integrally linked to routine operations as previously described. Therefore additional O&M is not required.
- For facilities responsible for pre-treating their wastewater prior to discharging, the proper functioning of structural treatment system is an important maintenance consideration.
- Routine cleanout of oil and grease is required for the devices to maintain their effectiveness, usually at least once a month. During periods of heavy rainfall, cleanout is required more often to ensure pollutants are not washed through the trap. Sediment removal is also required on a regular basis to keep the device working efficiently.

References and Resources

Minnesota Pollution Control Agency. *Industrial Stormwater Best Management Practices Guidebook BMP 26 Fueling and Liquid Loading/Unloading Operations.* Available online at: http://www.pca.state.mn.us/index.php/view-document.html?gid=10557.

New Jersey Department of Environmental Protection, 2013. *Basic Industrial Stormwater General Permit Guidance Document NJPDES General Permit No NJ0088315.* Available online at: http://www.nj.gov/dep/dwq/pdf/5G2_guidance_color.pdf.

Orange County Stormwater Program, Best Management Practices for Industrial/Commercial Business Activities. Available online at: http://ocwatersheds.com/documents/bmp/industrialcommercialbusinessesactivities.

Oregon Department of Environmental Quality, *Industrial Stormwater Best Management Practices Manual- BMP 26 Fueling and Liquid Loading/Unloading Operations,* February 2013. Available online at: http://www.deq.state.or.us/wq/wqpermit/docs/IndBMP021413.pdf.

Sacramento Stormwater Management Program. *Best Management Practices for Industrial Storm Water Pollution Control.* Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

Sacramento County Environmental Management Stormwater Program: Best Management Practices. Available online at: http://www.emd.saccounty.net/EnvHealth/Stormwater/Stormwater-BMPs.html.

Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp-w2k.com/

US EPA. National Pollutant Discharge Elimination System – Industrial Fact Sheet Series for Activities Covered by EPA's Multi Sector General Permit. Available online at: http://cfpub.epa.gov/npdes/stormwater/swsectors.cfm.

Waste Handling & Disposal SC-34

Description

Improper storage and handling of solid wastes can allow toxic compounds, oils and greases, heavy metals, nutrients, suspended solids, and other pollutants to enter stormwater runoff. The discharge of pollutants to stormwater from waste handling and disposal can be prevented and reduced by tracking waste generation, storage, and disposal; reducing waste generation and disposal through source reduction, reuse, and recycling; and preventing run-on and runoff.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Accomplish reduction in the amount of waste generated using the following source controls:
  - ✓ Production planning and sequencing;
  - ✓ Process or equipment modification;
  - ✓ Raw material substitution or elimination;
  - ✓ Loss prevention and housekeeping;
  - ✓ Waste segregation and separation; and
  - ✓ Close loop recycling.
- ☐ Establish a material tracking system to increase awareness about material usage. This may reduce spills and minimize contamination, thus reducing the amount of waste produced.
- ☐ Recycle materials whenever possible.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	
Nutrients	
Trash	
Metals	✓
Bacteria	✓
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	✓
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Use the entire product before disposing of the container.
- To the extent possible, store wastes under cover or indoors after ensuring all safety concerns such as fire hazard and ventilation are addressed.
- Provide containers for each waste stream at each work station. Allow time after shift to clean area.



Good Housekeeping

- Cover storage containers with leak proof lids or some other means. If waste is not in containers, cover all waste piles (plastic tarps are acceptable coverage) and prevent stormwater run-on and runoff with a berm. The waste containers or piles must be covered except when in use.
- Use drip pans or absorbent materials whenever grease containers are emptied by vacuum trucks or other means. Grease cannot be left on the ground. Collected grease must be properly disposed of as garbage.
- Dispose of rinse and wash water from cleaning waste containers into a sanitary sewer if allowed by the local sewer authority. Do not discharge wash water to the street or storm drain. Clean in a designated wash area that drains to a clarifier.
- Transfer waste from damaged containers into safe containers.
- Take special care when loading or unloading wastes to minimize losses. Loading systems can be used to minimize spills and fugitive emission losses such as dust or mist. Vacuum transfer systems can minimize waste loss.
- Keep the waste management area clean at all times by sweeping and cleaning up spills immediately.
- Use dry methods when possible (e.g., sweeping, use of absorbents) when cleaning around restaurant/food handling dumpster areas. If water must be used after sweeping/using absorbents, collect water and discharge through grease interceptor to the sewer.
- Stencil or demarcate storm drains on the facility's property with prohibitive message regarding waste disposal.
- Cover waste piles with temporary covering material such as reinforced tarpaulin, polyethylene, polyurethane, polypropylene or hypalon.
- If possible, move the activity indoor after ensuring all safety concerns such as fire hazard and ventilation are addressed.



Preventative Maintenance

- Prevent stormwater run-on from entering the waste management area by enclosing the area or building a berm around the area.
- Prevent waste materials from directly contacting rain.

- Cover waste piles with temporary covering material such as reinforced tarpaulin, polyethylene, polyurethane, polypropylene or hypalon.
- Cover the area with a permanent roof if feasible.
- Cover dumpsters to prevent rain from washing waste out of holes or cracks in the bottom of the dumpster.
- Check waste containers weekly for leaks and to ensure that lids are on tightly. Replace any that are leaking, corroded, or otherwise deteriorating.
- Sweep and clean the waste management area regularly. Use dry methods when possible (e.g., sweeping, vacuuming, use of absorbents) when cleaning around restaurant/food handling dumpster areas. If water must be used after sweeping/using absorbents, collect water and discharge through grease interceptor to the sewer.
- Inspect and replace faulty pumps or hoses regularly to minimize the potential of releases and spills.
- Repair leaking equipment including valves, lines, seals, or pumps promptly.



Spill Response and Prevention Procedures

- Keep your spill prevention and plan up-to-date.
- Have an emergency plan, equipment and trained personnel ready at all times to deal immediately with major spills.
- Collect all spilled liquids and properly dispose of them.
- Store and maintain appropriate spill cleanup materials in a location known to all near the designated wash area.
- Ensure that vehicles transporting waste have spill prevention equipment that can prevent spills during transport. Spill prevention equipment includes:
  - ✓ Vehicles equipped with baffles for liquid waste; and
  - ✓ Trucks with sealed gates and spill guards for solid waste.



Material Handling and Waste Management

Litter Control

- Post "No Littering" signs and enforce anti-litter laws.
- Provide a sufficient number of litter receptacles for the facility.
- Clean out and cover litter receptacles frequently to prevent spillage.

Waste Collection

- Keep waste collection areas clean.

- Inspect solid waste containers for structural damage regularly. Repair or replace damaged containers as necessary.
- Secure solid waste containers; containers must be closed tightly when not in use.
- Do not fill waste containers with washout water or any other liquid.
- Ensure that only appropriate solid wastes are added to the solid waste container. Certain wastes such as hazardous wastes, appliances, fluorescent lamps, pesticides, etc., may not be disposed of in solid waste containers (see chemical/ hazardous waste collection section below).
- Do not mix wastes; this can cause chemical reactions, make recycling impossible, and complicate disposal. Affix labels to all waste containers.

Chemical/Hazardous Wastes

- Select designated hazardous waste collection areas on-site.
- Store hazardous materials and wastes in covered containers and protect them from vandalism.
- Place hazardous waste containers in secondary containment.
- Make sure that hazardous waste is collected, removed, and disposed of only at authorized disposal areas.
- Hazardous waste cannot be reused or recycled; it must be disposed of by a licensed hazardous waste hauler.



Employee Training Program

- Educate employees about pollution prevention measures and goals.
- Train employees how to properly handle and dispose of waste using the source control BMPs described above.
- Train employees and subcontractors in proper hazardous waste management.
- Use a training log or similar method to document training.
- Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.



Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for waste handling and disposal, types and quantities of waste disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.

- Establish procedures to complete logs and file them in the central office.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Capital costs will vary substantially depending on the size of the facility and the types of waste handled. Significant capital costs may be associated with reducing wastes by modifying processes or implementing closed-loop recycling.
- Many facilities will already have indoor covered areas where waste materials will be stored and will require no additional capital expenditures for providing cover.
- If outdoor storage of wastes is required, construction of berms or other means to prevent stormwater run-on and runoff may require appropriate constructed systems for containment.
- Capital investments will likely be required at some sites if adequate cover and containment facilities do not exist and can vary significantly depending upon site conditions.

Maintenance

- Check waste containers weekly for leaks and to ensure that lids are on tightly. Replace any that are leaking, corroded, or otherwise deteriorating.
- Sweep and clean the waste management area regularly. Use dry methods when possible (e.g., sweeping, use of absorbents) when cleaning around restaurant/food handling dumpster areas. If water must be used after sweeping/using absorbents, collect water and discharge through grease interceptor to the sewer.
- Inspect and replace faulty pumps or hoses regularly to minimize the potential of releases and spills.
- Repair leaking equipment including valves, lines, seals, or pumps promptly.

References and Resources

Minnesota Pollution Control Agency, *Industrial Stormwater Best Management Practices Guidebook*. Available online at: http://www.pca.state.mn.us/index.php/view-document.html?gid=10557.

New Jersey Department of Environmental Protection, 2013. *Basic Industrial Stormwater General Permit Guidance Document NJPDES General Permit No NJ0088315,* Revised. Available online at: http://www.nj.gov/dep/dwq/pdf/5G2_guidance_color.pdf.

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Oregon Department of Environmental Quality, 2013. *Industrial Stormwater Best Management Practices Manual- BMP 26 Fueling and Liquid Loading/Unloading Operations*. Available online at: http://www.deq.state.or.us/wq/wqpermit/docs/IndBMP021413.pdf.

Sacramento Stormwater Management Program. *Best Management Practices for Industrial Storm Water Pollution Control*. Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

Sacramento County Environmental Management Stormwater Program: Best Management Practices. Available online at: http://www.emd.saccounty.net/EnvHealth/Stormwater/Stormwater-BMPs.html.

Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp-w2k.com/

US EPA. National Pollutant Discharge Elimination System – Industrial Fact Sheet Series for Activities Covered by EPA's Multi Sector General Permit. Available online at: http://cfpub.epa.gov/npdes/stormwater/swsectors.cfm.

Safer Alternative Products SC-35

Description

Promote the use of less harmful products and products that contain little or no TMDL and 303(d) list pollutants. Alternatives exist for most product classes including chemical fertilizers, pesticides, cleaning solutions, janitorial chemicals, automotive and paint products, and consumables (batteries, fluorescent lamps).

Approach

Pattern a new program after the many established programs around the state and country. Integrate this best management practice as much as possible with existing programs at your facility.

Develop a comprehensive program based on:

- The "Precautionary Principle," which is an alternative to the "Risk Assessment" model that says it's acceptable to use a potentially harmful product until physical evidence of its harmful effects are established and deemed too costly from an environmental or public health perspective. For instance, a risk assessment approach might say it's acceptable to use a pesticide until there is direct proof of an environmental impact. The Precautionary Principle approach is used to evaluate whether a given product is safe, whether it is really necessary, and whether alternative products would perform just as well.
- Environmentally Preferable Purchasing Program to minimize the purchase of products containing hazardous ingredients used in the facility's custodial services, fleet maintenance, and facility maintenance in favor of using alternate products that pose less risk to employees and to the environment.
- Integrated Pest Management (IPM) or Less-Toxic Pesticide Program, which uses a pest management approach that minimizes the use of toxic chemicals and gets rid of pests

Objectives
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	
Nutrients	✓
Trash	
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	
Preventative Maintenance	
Spill and Leak Prevention and Response	
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	

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by methods that pose a lower risk to employees, the public, and the environment.

- Energy Efficiency Program including no-cost and low-cost energy conservation and efficiency actions that can reduce both energy consumption and electricity bills, along with long-term energy efficiency investments.

Consider the following mechanisms for developing and implementing a comprehensive program:

- Policies
- Procedures
  - ✓ Standard operating procedures (SOPs);
  - ✓ Purchasing guidelines and procedures; and
  - ✓ Bid packages (services and supplies).
- Materials
  - ✓ Preferred or approved product and supplier lists;
  - ✓ Product and supplier evaluation criteria;
  - ✓ Training sessions and manuals; and
  - ✓ Fact sheets for employees.

Implement this BMP in conjunction with the Vehicle and Equipment Management fact sheets (SC-20 – SC-22) and SC-41 Building and Grounds Maintenance.



Employee Training Program

- Employees who handle potentially harmful materials should be trained in the use of safer alternatives.
- Purchasing departments should be trained on safer alternative products and encouraged to procure less hazardous materials and products that contain little or no harmful substances or TMDL pollutants.
- Employees and contractors / service providers can both be educated about safer alternatives by using information developed by a number of organizations including the references and resources provided in this fact sheet.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds"

- Alternative products may not be available, suitable, or effective in every case.

- ✓ Minimize use of hazardous/harmful products if no alternative product is available.

Regulatory Considerations

This BMP has no regulatory requirements unless local/municipal ordinance applies. Existing regulations already encourage facilities to reduce the use of hazardous materials through incentives such as reduced:

- Specialized equipment storage and handling requirements;
- Storm water runoff sampling requirements;
- Training and licensing requirements; and
- Record keeping and reporting requirements.

Cost Considerations

- The primary cost is for staff time to: 1) develop new policies and procedures and 2) educate purchasing departments and employees who handle potentially harmful materials about the availability, procurement, and use of safer alternatives.
- Some alternative products may be slightly more expensive than conventional products.

Supplemental Information

The following discussion provides some general information on safer alternatives. More specific information on particular hazardous materials and the available alternatives may be found in the references and resources listed below.

- Automotive products – Less toxic alternatives are not available for many automotive products, especially engine fluids. But there are alternatives to grease lubricants, car polishes, degreasers, and windshield washer solution. Refined motor oil is also available.
- Vehicle/Trailer lubrication – Fifth wheel bearings on trucks require routine lubrication. Adhesive lubricants are available to replace typical chassis grease.
- Cleaners – Vegetables-based or citrus-based soaps are available to replace petroleum-based soaps/detergents.
- Paint products – Water-based paints, wood preservatives, stains, and finishes with low VOC content are available.
- Pesticides – Specific alternative products or methods exist to control most insects, fungi, and weeds.
- Chemical Fertilizers – Compost and soil amendments are natural alternatives.
- Consumables – Manufacturers have either reduced or are in the process of reducing the amount of heavy metals in consumables such as batteries and fluorescent lamps.

All fluorescent lamps contain mercury, however low-mercury containing lamps are now available from most hardware and lighting stores. Fluorescent lamps are also more energy efficient than the average incandescent lamp.

- Janitorial chemicals – Even biodegradable soap can harm fish and wildlife before it biodegrades. Biodegradable does not mean non-toxic. Safer products and procedures are available for floor stripping and cleaning, as well as carpet, glass, metal, and restroom cleaning and disinfecting. Use paper products with post-consumer recycled content and implement electric had dryers.

Examples

There are a number of business and trade associations, and communities with effective programs. Some of the more prominent are listed below in the references and resources section.

References and Resources

Note: Many of these references provide alternative products for materials that typically are used inside and disposed to the sanitary sewer as well as alternatives to products that usually end up in the storm drain.

General Sustainable Practices and Pollution Prevention Including Pollutant-Specific Information

California Department of Toxic Substances Control, http://www.dtsc.ca.gov/PollutionPrevention/GreenTechnology/Index.cfm.

CalRecycle, http://www.calrecycle.ca.gov/Business/Regulated.htm.

City of Santa Monica Office of Sustainability and Environment, http://www.smgov.net/departments/ose/.

City of Palo Alto, http:// www.city.palo-alto.ca.us/cleanbay.

City and County of San Francisco, Department of the Environment, http://www.sfenvironment.org/toxics-health/greener-business-practices.

Green Business Program, http://www.greenbiz.ca.gov/GRlocal.html .

Product Stewardship Institute, http://www.productstewardship.us/index.cfm.

Sacramento Clean Water Business Partners. http://www.sacstormwater.org/CleanWaterBusinessPartners/CleanWaterBusinessPartners.html.

USEPA. National Pollutant Discharge Elimination System (NPDES) Stormwater Discharges From Industrial Facilities, http://cfpub.epa.gov/npdes/stormwater/indust.cfm.

USEPA Region IX Pollution Prevention Program, http://www.epa.gov/region9/waste/p2/business.html.

Western Sustainability and Pollution Prevention Network, http://wsppn.org/.

Metals (mercury, copper)

National Electrical Manufacturers Association – Environmental Stewardship, http://www.nema.org/Policy/Environmental-Stewardship/pages/default.aspx.

Sustainable Conservation, http://www.suscon.org.

Auto Recycling Project

Brake Pad Partnership

Pesticides and Chemical Fertilizers

Bio-Integral Resource Center, http://www.birc.org.

California Department of Pesticide Regulation, http://www.cdpr.ca.gov/dprprograms.htm.

University of California Statewide IPM Program, http://www.ipm.ucdavis.edu/default.html.

Dioxins

Bay Area Dioxins Project, http://www.abag.ca.gov/bayarea/dioxin/project_materials.htm.

Building & Grounds Maintenance SC-41

Description

Stormwater runoff from building and grounds maintenance activities can be contaminated with toxic hydrocarbons in solvents, fertilizers and pesticides, suspended solids, heavy metals, abnormal pH, and oils and greases. Utilizing the protocols in this fact sheet will prevent or reduce the discharge of pollutants to stormwater from building and grounds maintenance activities by washing and cleaning up with as little water as possible, following good landscape management practices, preventing and cleaning up spills immediately, keeping debris from entering the storm drains, and maintaining the stormwater collection system.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Switch to non-toxic chemicals for maintenance to the maximum extent possible.
- ☐ Choose cleaning agents that can be recycled.
- ☐ Encourage proper lawn management and landscaping, including use of native vegetation.
- ☐ Encourage use of Integrated Pest Management techniques for pest control.
- ☐ Encourage proper onsite recycling of yard trimmings.
- ☐ Recycle residual paints, solvents, lumber, and other material as much as possible.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	✓
Nutrients	✓
Trash	
Metals	✓
Bacteria	✓
Oil and Grease	
Organics	

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Clean work areas at the end of each work shift using dry cleaning methods such as sweeping and vacuuming.



Good Housekeeping

Pressure Washing of Buildings, Rooftops, and Other Large Objects

- In situations where soaps or detergents are used and the surrounding area is paved, pressure washers must use a water collection device that enables collection of wash water and associated solids. A sump pump, wet vacuum or similarly effective device must be used to collect the runoff and loose materials. The collected runoff and solids must be disposed of properly.

- If soaps or detergents are not used, and the surrounding area is paved, wash runoff does not have to be collected but must be screened. Pressure washers must use filter fabric or some other type of screen on the ground and/or in the catch basin to trap the particles in wash water runoff.

- If you are pressure washing on a grassed area (with or without soap), runoff must be dispersed as sheet flow as much as possible, rather than as a concentrated stream. The wash runoff must remain on the grass and not drain to pavement.

Landscaping Activities

- Dispose of grass clippings, leaves, sticks, or other collected vegetation as garbage, or by composting. Do not dispose of collected vegetation into waterways or storm drainage systems.

- Use mulch or other erosion control measures on exposed soils. See also SC-40, Contaminated and Erodible Areas, for more information.

Building Repair, Remodeling, and Construction

- Do not dump any toxic substance or liquid waste on the pavement, the ground, or toward a storm drain.

- Use ground or drop cloths underneath outdoor painting, scraping, and sandblasting work, and properly dispose of collected material daily.

- Use a ground cloth or oversized tub for activities such as paint mixing and tool cleaning.

- Clean paintbrushes and tools covered with water-based paints in sinks connected to sanitary sewers or in portable containers that can be dumped into a sanitary sewer drain. Brushes and tools covered with non-water-based paints, finishes, or other materials must be cleaned in a manner that enables collection of used solvents (e.g., paint thinner, turpentine, etc.) for recycling or proper disposal.

- Use a storm drain cover, filter fabric, or similarly effective runoff control mechanism if dust, grit, wash water, or other pollutants may escape the work area and enter a catch basin. This is particularly necessary on rainy days. The containment device(s) must be in place at the beginning of the work day, and accumulated dirty runoff and

solids must be collected and disposed of before removing the containment device(s) at the end of the work day.

- If you need to de-water an excavation site, you may need to filter the water before discharging to a catch basin or off-site. If directed off-site, you should direct the water through hay bales and filter fabric or use other sediment filters or traps.
- Store toxic material under cover during precipitation events and when not in use. A cover would include tarps or other temporary cover material.

Mowing, Trimming, and Planting

- Dispose of leaves, sticks, or other collected vegetation as garbage, by composting or at a permitted landfill. Do not dispose of collected vegetation into waterways or storm drainage systems.
- Use mulch or other erosion control measures when soils are exposed.
- Place temporarily stockpiled material away from watercourses and drain inlets, and berm or cover stockpiles to prevent material releases to the storm drain system.
- Consider an alternative approach when bailing out muddy water: do not put it in the storm drain; pour over landscaped areas.
- Use hand weeding where practical.

Fertilizer and Pesticide Management

- Do not use pesticides if rain is expected.
- Do not mix or prepare pesticides for application near storm drains.
- Use the minimum amount needed for the job.
- Calibrate fertilizer distributors to avoid excessive application.
- Employ techniques to minimize off-target application (e.g., spray drift) of pesticides, including consideration of alternative application techniques.
- Apply pesticides only when wind speeds are low.
- Fertilizers should be worked into the soil rather than dumped or broadcast onto the surface.
- Irrigate slowly to prevent runoff and then only as much as is needed.
- Clean pavement and sidewalk if fertilizer is spilled on these surfaces before applying irrigation water.

Inspection

- Inspect irrigation system periodically to ensure that the right amount of water is being applied and that excessive runoff is not occurring. Minimize excess watering and repair leaks in the irrigation system as soon as they are observed.

Building & Grounds Maintenance SC-41



Spill Response and Prevention Procedures

- ☐ Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- ☐ Place a stockpile of spill cleanup materials, such as brooms, dustpans, and vacuum sweepers (if desired) near the storage area where it will be readily accessible.
- ☐ Have employees trained in spill containment and cleanup present during the loading/unloading of dangerous wastes, liquid chemicals, or other materials.
- ☐ Familiarize employees with the Spill Prevention Control and Countermeasure Plan.
- ☐ Clean up spills immediately.



Material Handling and Waste Management

- ☐ Follow all federal, state, and local laws and regulations governing the use, storage, and disposal of fertilizers and pesticides and training of applicators and pest control advisors.
- ☐ Use less toxic pesticides that will do the job when applicable. Avoid use of copper-based pesticides if possible.
- ☐ Dispose of empty pesticide containers according to the instructions on the container label.
- ☐ Use up the pesticides. Rinse containers, and use rinse water as product. Dispose of unused pesticide as hazardous waste.
- ☐ Implement storage requirements for pesticide products with guidance from the local fire department and County Agricultural Commissioner. Provide secondary containment for pesticides.



Employee Training Program

- ☐ Educate and train employees on pesticide use and in pesticide application techniques to prevent pollution.
- ☐ Train employees and contractors in proper techniques for spill containment and cleanup.
- ☐ Be sure the frequency of training takes into account the complexity of the operations and the needs of individual staff.



Quality Assurance and Record Keeping

- ☐ Keep accurate logs that document maintenance activities performed and minimum BMP measures implemented.
- ☐ Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- ☐ Establish procedures to complete logs and file them in the central office.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Additional capital costs are not anticipated for building and grounds maintenance. Implementation of the minimum BMPs described above should be conducted as part of regular site operations.

Maintenance

- Maintenance activities for the BMPs described above will be minimal, and no additional cost is anticipated.

Supplemental Information

Fire Sprinkler Line Flushing

Site fire sprinkler line flushing may be a source of non-stormwater runoff pollution. The water entering the system is usually potable water, though in some areas it may be non-potable reclaimed wastewater. There are subsequent factors that may drastically reduce the quality of the water in such systems. Black iron pipe is usually used since it is cheaper than potable piping, but it is subject to rusting and results in lower quality water. Initially, the black iron pipe has an oil coating to protect it from rusting between manufacture and installation; this will contaminate the water from the first flush but not from subsequent flushes. Nitrates, poly-phosphates and other corrosion inhibitors, as well as fire suppressants and antifreeze may be added to the sprinkler water system. Water generally remains in the sprinkler system a long time (typically a year) and between flushes may accumulate iron, manganese, lead, copper, nickel, and zinc. The water generally becomes anoxic and contains living and dead bacteria and breakdown products from chlorination. This may result in a significant BOD problem and the water often smells. Consequently dispose fire sprinkler line flush water into the sanitary sewer. Do not allow discharge to storm drain or infiltration due to potential high levels of pollutants in fire sprinkler line water.

References and Resources

City of Seattle, Seattle Public Utilities Department of Planning and Development, 2009. *Stormwater Manual Vol. 1 Source Control Technical Requirements Manual.*

Kennedy/Jenks Consultants, 2007. *The Truckee Meadows Industrial and Commercial Storm Water Best Management Practices Handbook.* Available online at: http://www.cityofsparks.us/sites/default/files/assets/documents/env-control/construction/TM-I-C_BMP_Handbook_2-07-final.pdf.

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US EPA, 1997. *Best Management Practices Handbook for Hazardous Waste Containers*. Available online at: http://www.epa.gov/region6/6en/h/handbk4.pdf.

Ventura Countywide Stormwater Management Program Clean Business Fact Sheets. Available online at: http://www.vcstormwater.org/documents/programs_business/building.pdf.

Building Repair and Construction SC-42

Description

Site modifications are common, particularly at large industrial sites. The activity may vary from minor and normal building repair to major remodeling, or the construction of new facilities. These activities can generate pollutants including solvents, paints, paint and varnish removers, finishing residues, spent thinners, soap cleaners, kerosene, asphalt and concrete materials, adhesive residues, and old asbestos installation. Protocols in this fact sheet are intended to prevent or reduce the discharge of pollutants to stormwater from building repair, remodeling, and minor construction by using soil erosion controls, enclosing or covering building material storage areas, using good housekeeping practices, using safer alternative products, and training employees.

This fact sheet is intended to be used for minor repairs and construction. If major construction is required, the guidelines in the Construction BMP Handbook should be followed.

Approach

The BMP approach is to reduce potential for pollutant discharges through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Recycle residual paints, solvents, lumber, and other materials to the maximum extent practicable.
- ☐ Avoid outdoor repairs and construction during periods of wet weather.
- ☐ Use safer alternative products to the maximum extent practicable. See also SC-35 Safer Alternative Products for more information.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	✓
Nutrients	
Trash	✓
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	✓
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Buy recycled products to the maximum extent practicable.
- Inform on-site contractors of company policy on these matters and include appropriate provisions in their contract to ensure certain proper housekeeping and disposal practices are implemented.
- Make sure that nearby storm drains are well marked to minimize the chance of inadvertent disposal of residual paints and other liquids.



Good Housekeeping

Repair & Remodeling

- Keep the work site clean and orderly. Remove debris in a timely fashion. Sweep and vacuum the area regularly to remove sediments and small debris.
- Cover raw materials of particular concern that must be left outside, particularly during the rainy season. See also SC-33 Outdoor Storage of Raw Materials for more information.
- Use equipment and tools such as bag sanders to reduce accumulation of debris.
- Limit/prohibit work on windy days; implement roll-down walls or other measures to reduce wind transport of pollutants.
- Do not dump waste liquids down the storm drain.
- Dispose of wash water, sweepings, and sediments properly.
- Store liquid materials properly that are normally used in repair and remodeling such as paints and solvents. See also SC-31 Outdoor Liquid Container Storage for more information.
- Sweep out rain gutters or wash the gutter and trap the particles at the outlet of the downspout. A sock or geofabric placed over the outlet may effectively trap the materials. If the downspout is tight lined, place a temporary plug at the first convenient point in the storm drain and pump out the water with a vactor truck, and clean the catch basin sump where you placed the plug.
- Clean the storm drain system in the immediate vicinity of the construction activity after it is completed. See also SC-44 Drainage System Maintenance for more information.

Painting

- Enclose painting operations consistent with local air quality regulations and OSHA.
- Local air pollution regulations may, in many areas of the state, specify painting procedures which if properly carried out are usually sufficient to protect water quality.
- Develop paint handling procedures for proper use, storage, and disposal of paints.

- Transport paint and materials to and from job sites in containers with secure lids and tied down to the transport vehicle.
- Test and inspect spray equipment prior to starting to paint. Tighten all hoses and connections and do not overfill paint containers.
- Mix paint indoors before using so that any spill will not be exposed to rain. Do so even during dry weather because cleanup of a spill will never be 100 percent effective.
- Transfer and load paint and hot thermoplastic away from storm drain inlets.
- Do not transfer or load paint near storm drain inlets.
- Plug nearby storm drain inlets prior to starting painting and remove plugs when job is complete when there is risk of a spill reaching storm drains.
- Cover nearby storm drain inlets prior to starting work if sand blasting is used to remove paint.
- Use a ground cloth to collect the chips if painting requires scraping or sand blasting of the existing surface. Dispose of the residue properly.
- Cover or enclose painting operations properly to avoid drift.
- Clean the application equipment in a sink that is connected to the sanitary sewer if using water based paints.
- Capture all cleanup-water and dispose of properly.
- Dispose of paints containing lead or tributyl tin and considered a hazardous waste properly.
- Store leftover paints if they are to be kept for the next job properly, or dispose properly.
- Recycle paint when possible. Dispose of paint at an appropriate household hazardous waste facility.



Spill Response and Prevention Procedures

- Keep your spill prevention and control plan up-to-date.
- Place a stockpile of spill cleanup materials where it will be readily accessible.
- Clean up spills immediately.
- Excavate and remove the contaminated (stained) soil if a spill occurs on dirt.



Material Handling and Waste Management

- Post “No Littering” signs and enforce anti-litter laws.

- Provide a sufficient number of litter receptacles for the facility.
- Clean out and cover litter receptacles frequently to prevent spillage.
- Keep waste collection areas clean.
- Inspect solid waste containers for structural damage regularly. Repair or replace damaged containers as necessary.
- Secure solid waste containers; containers must be closed tightly when not in use.
- Do not fill waste containers with washout water or any other liquid.
- Ensure that only appropriate solid wastes are added to the solid waste container. Certain wastes such as hazardous wastes, appliances, fluorescent lamps, pesticides, etc., may not be disposed of in solid waste containers (see chemical/ hazardous waste collection section below).
- Do not mix wastes; this can cause chemical reactions, make recycling impossible, and complicate disposal. Affix labels to all waste containers.
- Make sure that hazardous waste is collected, removed, and disposed of properly. See also SC-34, Waste Handling and Disposal for more information.



Sediment and Erosion Controls

- Limit disturbance to bare soils and preserve natural vegetation whenever possible. See also EC-2, Preservation of Existing Vegetation, in the Construction BMP Handbook.
- Stabilize loose soils by re-vegetating whenever possible. See also EC-4 Hydroseeding, in the Construction BMP Handbook.
- Utilize non-vegetative stabilization methods for areas prone to erosion where vegetative options are not feasible. Examples include:
  - ✓ Areas of vehicular or pedestrian traffic such as roads or paths;
  - ✓ Arid environments where vegetation would not provide timely ground coverage, or would require excessive irrigation;
  - ✓ Rocky substrate, infertile or droughty soils where vegetation would be difficult to establish; and
  - ✓ Areas where vegetation will not grow adequately within the construction time frame.

  There are several non-vegetative stabilization methods and selection should be based on site-specific conditions. See also EC-16 Non-Vegetative Stabilization, in the Construction BMP Handbook.

- Utilize chemical stabilization when needed. See also EC-5 Soil Binders, in the Construction BMP Handbook.
- Use geosynthetic membranes to control erosion if feasible. See also EC-7 Geotextiles and Mats, in the Construction BMP Handbook.
- Stabilize all roadways, entrances, and exits to sufficiently control discharges of erodible materials from discharging or being tracked off the site. See also TC 1-3 Tracking Control, in the Construction BMP Handbook.
- Refer to the supplemental information provided below for projects that involve more extensive soil disturbance activities.



Employee Training Program

- Educate employees about pollution prevention measures and goals.
- Train employees how to properly implement the source control BMPs described above. Detailed information for Sediment and Erosion Control BMPs is provided in the Construction BMP Handbook.
- Proper education of off-site contractors is often overlooked. The conscientious efforts of well trained employees can be lost by unknowing off-site contractors, so make sure they are well informed about pollutant source control responsibilities.
- Use a training log or similar method to document training.



Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for building repair and construction, types and quantities of waste disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds."

- This BMP is for minor construction only. The State's General Construction Activity Stormwater Permit has more extensive requirements for larger projects that would disturb one or more acres of surface.
  - ✓ Refer to the companion "Construction Best Management Practice Handbook" which contains specific guidance and best management practices for larger-scale projects.

- Time constraints may require some outdoor repairs and construction during wet weather.
  - ✓ Require employees to understand and follow good housekeeping and spill and leak prevention BMPs.
  - ✓ Inspect sediment and erosion control BMPs daily during periods of wet weather and repair or improve BMP implementation as necessary.
- Hazardous waste that cannot be reused or recycled must be disposed of by a licensed hazardous waste hauler.
  - ✓ Minimize use of hazardous materials to the maximum extent practicable.
- Be certain that actions to help stormwater quality are consistent with Cal- and Fed-OSHA and air quality regulations.
- Prices for recycled/safer alternative materials and fluids may be higher than those of conventional materials.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Limited capital investments may be required at some sites if adequate cover and containment facilities do not exist for construction materials and wastes.
- Purchase and installation of erosion and sediment controls, if needed will require additional capital investments, and this amount will vary depending on site characteristics and the types of BMPs being implemented.
- Minimize costs by maintaining existing vegetation and limiting construction operations on bare soils.

Maintenance

- The erosion and sediment control BMPs described above require periodic inspection and maintenance to remain effective. The cost of these actions will vary depending on site characteristics and the types of BMPs being implemented.
- Irrigation costs may be required to establish and maintain vegetation.

Supplemental Information

Soil/Erosion Control

If the work involves exposing large areas of soil, employ the appropriate soil erosion and control techniques. See the Construction Best Management Practice Handbook. If old buildings are being torn down and not replaced in the near future, stabilize the site using measures described in SC-40 Contaminated or Erodible Areas.

If a building is to be placed over an open area with a storm drainage system, make sure the storm inlets within the building are covered or removed, or the storm line is connected to the sanitary sewer. If because of the remodeling a new drainage system is to be installed or the existing system is to be modified, consider installing catch basins as they serve as effective "in-line" treatment devices. Include in the catch basin a "turn-down" elbow or similar device to trap floatables.

References and Resources

City of Seattle, Seattle Public Utilities Department of Planning and Development, 2009. *Stormwater Manual Vol. 1 Source Control Technical Requirements Manual*.

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US EPA. *Construction Site Stormwater Runoff Control*. Available online at: http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=4.

Parking Area Maintenance SC-43

Description

Parking lots can contribute a number of substances, such as trash, suspended solids, hydrocarbons, oil and grease, and heavy metals that can enter receiving waters through stormwater runoff or non-stormwater discharges. The protocols in this fact sheet are intended to prevent or reduce the discharge of pollutants from parking areas and include using good housekeeping practices, following appropriate cleaning BMPs, and training employees.

BMPs for other outdoor areas on site (loading/unloading, material storage, and equipment operations) are described in SC-30 through SC-33.

Approach

The goal of this program is to ensure stormwater pollution prevention practices are considered when conducting activities on or around parking areas to reduce potential for pollutant discharge to receiving waters. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Encourage advanced designs and maintenance strategies for impervious parking lots. Refer to the treatment control BMP fact sheets in this manual for additional information.
- ☐ Keep accurate maintenance logs to evaluate BMP implementation.



Good Housekeeping

- ☐ Keep all parking areas clean and orderly. Remove debris, litter, and sediments in a timely fashion.
- ☐ Post "No Littering" signs and enforce anti-litter laws.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	✓
Nutrients	
Trash	✓
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered		
	*Good Housekeeping*	✓
	*Preventative Maintenance*	✓
	*Spill and Leak Prevention and Response*	✓
	*Material Handling & Waste Management*	
	*Erosion and Sediment Controls*	
	*Employee Training Program*	✓
	*Quality Assurance Record Keeping*	✓

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- ☐ Provide an adequate number of litter receptacles.
- ☐ Clean out and cover litter receptacles frequently to prevent spillage.



Preventative Maintenance

Inspection

Have designated personnel conduct inspections of parking facilities and stormwater conveyance systems associated with parking facilities on a regular basis.

- ☐ Inspect cleaning equipment/sweepers for leaks on a regular basis.

Surface Cleaning

- ☐ Use dry cleaning methods (e.g., sweeping, vacuuming) to prevent the discharge of pollutants into the stormwater conveyance system if possible.
- ☐ Establish frequency of public parking lot sweeping based on usage and field observations of waste accumulation.
- ☐ Sweep all parking lots at least once before the onset of the wet season.
- ☐ Dispose of parking lot sweeping debris and dirt at a landfill.
- ☐ Follow the procedures below if water is used to clean surfaces:
  - ✓ Block the storm drain or contain runoff.
  - ✓ Collect and pump wash water to the sanitary sewer or discharge to a pervious surface. Do not allow wash water to enter storm drains.
- ☐ Follow the procedures below when cleaning heavy oily deposits:
  - ✓ Clean oily spots with absorbent materials.
  - ✓ Use a screen or filter fabric over inlet, then wash surfaces.
  - ✓ Do not allow discharges to the storm drain.
  - ✓ Vacuum/pump discharges to a tank or discharge to sanitary sewer.
  - ✓ Dispose of spilled materials and absorbents appropriately.

Surface Repair

- ☐ Check local ordinance for SUSMP/LID ordinance.
- ☐ Preheat, transfer or load hot bituminous material away from storm drain inlets.
- ☐ Apply concrete, asphalt, and seal coat during dry weather to prevent contamination from contacting stormwater runoff.
- ☐ Cover and seal nearby storm drain inlets where applicable (with waterproof material or mesh) and manholes before applying seal coat, slurry seal, etc. Leave covers in

place until job is complete and all water from emulsified oil sealants has drained or evaporated. Clean any debris from these covered manholes and drains for proper disposal.

- Use only as much water as necessary for dust control during sweeping to avoid runoff.
- Catch drips from paving equipment that is not in use with pans or absorbent material placed under the machines. Dispose of collected material and absorbents properly.



Spill Response and Prevention Procedures

- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Place a stockpile of spill cleanup materials where it will be readily accessible or at a central location.
- Clean up fluid spills immediately with absorbent rags or material.
- Dispose of spilled material and absorbents properly.



Employee Training Program

- Provide regular training to field employees and/or contractors regarding cleaning of paved areas and proper operation of equipment.
- Train employees and contractors in proper techniques for spill containment and cleanup.
- Use a training log or similar method to document training.



Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for parking area maintenance, types and quantities of waste disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Capital investments may be required at some sites to purchase sweeping equipment, train sweeper operators, install oil/water/sand separators, or implement advanced BMPs. These costs can vary significantly depending upon site conditions and the amount of BMPs required.

Maintenance

- Sweep and clean parking lots regularly to minimize pollutant transport into storm drains from stormwater runoff.
- Clean out oil/water/sand separators regularly, especially after heavy storms.
- Maintain advanced BMPs such as vegetated swales, infiltration trenches, or detention basins as appropriate. Refer to the treatment control fact sheets for more information.

Supplemental Information

Advanced BMPs

Some parking areas may require advanced BMPs to further reduce pollutants in stormwater runoff, and a few examples are listed below. Refer to the Treatment Control Fact Sheets and the New Development and Redevelopment Manual for more information.

- When possible, direct sheet runoff to flow into biofilters (vegetated strip and swale) and/or infiltration devices.
- Utilize sand filters or oleophilic collectors for oily waste in low quantities.
- Arrange rooftop drains to prevent drainage directly onto paved surfaces.
- Design lot to include semi-permeable hardscape.

References and Resources

City of Seattle, Seattle Public Utilities Department of Planning and Development, 2009. *Stormwater Manual Vol. 1 Source Control Technical Requirements Manual*.

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Drainage System Maintenance SC-44

Description

As a consequence of its function, the stormwater drainage facilities on site convey stormwater that may contain certain pollutants either to the offsite conveyance system that collects and transports urban runoff and stormwater, or directly to receiving waters. The protocols in this fact sheet are intended to reduce pollutants leaving the site to the offsite drainage infrastructure or to receiving waters through proper on-site conveyance system operation and maintenance. The targeted constituents will vary depending on site characteristics and operations.

Approach

Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Maintain catch basins, stormwater inlets, and other stormwater conveyance structures on a regular basis to remove pollutants, reduce high pollutant concentrations during the first flush of storms, prevent clogging of the downstream conveyance system, restore catch basins' sediment trapping capacity, and ensure the system functions properly hydraulically to avoid flooding.
- ☐ Develop and follow a site specific drainage system maintenance plan that describes maintenance locations, methods, required equipment, water sources, sediment collection areas, disposal requirements, and any other pertinent information.



Good Housekeeping

Illicit Connections and Discharges

- ☐ Look for evidence of illegal discharges or illicit connections during routine maintenance of conveyance system and drainage structures:

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*

Targeted Constituents	
Sediment	✓
Nutrients	✓
Trash	✓
Metals	✓
Bacteria	✓
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	✓
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- ✓ Identify evidence of spills such as paints, discoloring, odors, etc.
- ✓ Record locations of apparent illegal discharges/illicit connections.
- ✓ Track flows back to potential discharges and conduct aboveground inspections. This can be done through visual inspection of upgradient manholes or alternate techniques including zinc chloride smoke testing, fluorometric dye testing, physical inspection testing, or television camera inspection.
- ✓ Eliminate the discharge once the origin of flow is established.

- ☐ Stencil or demarcate storm drains, where applicable, to prevent illegal disposal of pollutants. Storm drain inlets should have messages such as "Dump No Waste Drains to Stream" or similar stenciled next to them to warn against ignorant or intentional dumping of pollutants into the storm drainage system.
- ☐ Refer to fact sheet SC-10 Non-Stormwater Discharges for additional information.

Illegal Dumping

- ☐ Inspect and clean up hot spots and other storm drainage areas regularly where illegal dumping and disposal occurs.
- ☐ Establish a system for tracking incidents. The system should be designed to identify the following:
  - ✓ Illegal dumping hot spots;
  - ✓ Types and quantities (in some cases) of wastes;
  - ✓ Patterns in time of occurrence (time of day/night, month, or year);
  - ✓ Mode of dumping (abandoned containers, "midnight dumping" from moving vehicles, direct dumping of materials, accidents/spills); and
  - ✓ Responsible parties.
- ☐ Post "No Dumping" signs in problem areas with a phone number for reporting dumping and disposal. Signs should also indicate fines and penalties for illegal dumping.
- ☐ Refer to fact sheet SC-10 Non-Stormwater Discharges for additional information.



Preventative Maintenance

Catch Basins/Inlet Structures

- ☐ Staff should regularly inspect facilities to ensure compliance with the following:
  - ✓ Immediate repair of any deterioration threatening structural integrity.
  - ✓ Cleaning before the sump is 40% full. Catch basins should be cleaned as frequently as needed to meet this standard.

- Clean catch basins, storm drain inlets, and other conveyance structures before the wet season to remove sediments and debris accumulated during the summer.
- Conduct inspections more frequently during the wet season for problem areas where sediment or trash accumulates more often. Prioritize storm drain inlets; clean and repair as needed.
- Keep accurate logs of the number of catch basins cleaned.
- Store wastes collected from cleaning activities of the drainage system in appropriate containers or temporary storage sites in a manner that prevents discharge to the storm drain.
- Dewater the wastes if necessary with outflow into the sanitary sewer if permitted. Water should be treated with an appropriate filtering device prior to discharge to the sanitary sewer. If discharge to the sanitary sewer is not allowed, water should be pumped or vacuumed to a tank and properly disposed. Do not dewater near a storm drain or stream.

Storm Drain Conveyance System

- Locate reaches of storm drain with deposit problems and develop a flushing schedule that keeps the pipe clear of excessive buildup.
- Collect and pump flushed effluent to the sanitary sewer for treatment whenever possible.

Pump Stations

- Clean all storm drain pump stations prior to the wet season to remove silt and trash.
- Do not allow discharge to reach the storm drain system when cleaning a storm drain pump station or other facility.
- Conduct routine maintenance at each pump station.
- Inspect, clean, and repair as necessary all outlet structures prior to the wet season.

Open Channel

- Modify storm channel characteristics to improve channel hydraulics, increase pollutant removals, and enhance channel/creek aesthetic and habitat value.
- Conduct channel modification/improvement in accordance with existing laws. Any person, government agency, or public utility proposing an activity that will change the natural state of any river, stream, or lake in California, must enter into a Steam or Lake Alteration Agreement with the Department of Fish and Wildlife. The developer-applicant should also contact local governments (city, county, special districts), other state agencies (SWRCB, RWQCB, Department of Forestry, Department of Water Resources), and Army Corps of Engineers and USFWS.



Spill Response and Prevention Procedures

- Keep your spill prevention control plan up-to-date.

- Investigate all reports of spills, leaks, and/or illegal dumping promptly.
- Place a stockpile of spill cleanup materials where it will be readily accessible or at a central location.
- Clean up all spills and leaks using "dry" methods (with absorbent materials and/or rags) or dig up, remove, and properly dispose of contaminated soil.



Employee Training Program

- Educate employees about pollution prevention measures and goals.
- Train employees how to properly handle and dispose of waste using the source control BMPs described above.
- Train employees and subcontractors in proper hazardous waste management.
- Use a training log or similar method to document training.
- Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
- Have staff involved in detection and removal of illicit connections trained in the following:
  - ✓ OSHA-required Health and Safety Training (29 CFR 1910.120) plus annual refresher training (as needed).
  - ✓ OSHA Confined Space Entry training (Cal-OSHA Confined Space, Title 8 and Federal OSHA 29 CFR 1910.146).
  - ✓ Procedural training (field screening, sampling, smoke/dye testing, TV inspection).



Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for drainage system maintenance, types and quantities of waste disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Keep accurate logs of illicit connections, illicit discharges, and illegal dumping into the storm drain system including how wastes were cleaned up and disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Limitations and Work-Arounds

Provided below are typical limitations and recommended "work-arounds" for drainage system maintenance:

- Clean-up activities may create a slight disturbance for local aquatic species. Access to items and material on private property may be limited. Trade-offs may exist between channel hydraulics and water quality/riparian habitat. If storm channels or basins are recognized as wetlands, many activities, including maintenance, may be subject to regulation and permitting.

  - ✓ Perform all maintenance onsite and do not flush accumulated material downstream to private property or riparian habitats.

- Storm drain flushing is most effective in small diameter pipes (36-inch diameter pipe or less, depending on water supply and sediment collection capacity). Other considerations associated with storm drain flushing may include the availability of a water source, finding a downstream area to collect sediments, and liquid/sediment disposal.

  - ✓ Develop and follow a site specific drainage system maintenance plan that describes maintenance locations, methods, required equipment, water sources, sediment collection areas, disposal requirements, and any other pertinent information.

- Regulations may include adoption of substantial penalties for illegal dumping and disposal.

  - ✓ Do not dump illegal materials anywhere onsite.

  - ✓ Identify illicit connections, illicit discharge, and illegal dumping.

  - ✓ Cleanup spills immediately and properly dispose of wastes.

- Local municipal codes may include sections prohibiting discharge of soil, debris, refuse, hazardous wastes, and other pollutants into the sanitary sewer system.

  - ✓ Collect all materials and pollutants accumulated in drainage system and dispose of according to local regulations.

  - ✓ Install debris excluders in areas with a trash TMDL.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Capital costs will vary substantially depending on the size of the facility and characteristics of the drainage system. Significant capital costs may be associated with purchasing water trucks, vacuum trucks, and any other necessary cleaning equipment or improving the drainage infrastructure to reduce the potential .

- Developing and implementing a site specific drainage system maintenance plan will require additional capital if a similar program is not already in place.

Maintenance

- Two-person teams may be required to clean catch basins with vactor trucks.
- Teams of at least two people plus administrative personnel are required to identify illicit discharges, depending on the complexity of the storm sewer system.
- Arrangements must be made for proper disposal of collected wastes.
- Technical staff are required to detect and investigate illegal dumping violations.
- Methods used for illicit connection detection (smoke testing, dye testing, visual inspection, and flow monitoring) can be costly and time-consuming. Site-specific factors, such as the level of impervious area, the density and ages of buildings, and type of land use will determine the level of investigation necessary.

Supplemental Information

Storm Drain Flushing

Flushing is a common maintenance activity used to improve pipe hydraulics and to remove pollutants in storm drainage systems. Flushing may be designed to hydraulically convey accumulated material to strategic locations, such as an open channel, another point where flushing will be initiated, or the sanitary sewer and the treatment facilities, thus preventing re-suspension and overflow of a portion of the solids during storm events. Flushing prevents "plug flow" discharges of concentrated pollutant loadings and sediments. Deposits can hinder the designed conveyance capacity of the storm drain system and potentially cause backwater conditions in severe cases of clogging.

Storm drain flushing usually takes place along segments of pipe with grades that are too flat to maintain adequate velocity to keep particles in suspension. An upstream manhole is selected to place an inflatable device that temporarily plugs the pipe. Further upstream, water is pumped into the line to create a flushing wave. When the upstream reach of pipe is sufficiently full to cause a flushing wave, the inflated device is rapidly deflated with the assistance of a vacuum pump, thereby releasing the backed up water and resulting in the cleaning of the storm drain segment.

To further reduce impacts of stormwater pollution, a second inflatable device placed well downstream may be used to recollect the water after the force of the flushing wave has dissipated. A pump may then be used to transfer the water and accumulated material to the sanitary sewer for treatment. In some cases, an interceptor structure may be more practical or required to recollect the flushed waters.

It has been found that cleansing efficiency of periodic flush waves is dependent upon flush volume, flush discharge rate, sewer slope, sewer length, sewer flow rate, sewer diameter, and population density. As a rule of thumb, the length of line to be flushed should not exceed 700 feet. At this maximum recommended length, the percent removal efficiency ranges between 65-75% for organics and 55-65% for dry weather grit/inorganic material. The percent removal efficiency drops rapidly beyond that. Water is commonly supplied by a water truck, but fire hydrants can also supply water. To make the best use of water, it is recommended that reclaimed water be used if allowed or that fire hydrant line flushing coincide with storm sewer flushing.

References and Resources

City of Seattle, Seattle Public Utilities Department of Planning and Development, 2009. *Stormwater Manual Vol. 1 Source Control Technical Requirements Manual*.

Knox County Tennessee *Stormwater Management Manual* Chapter 5 Drainage System Maintenance, 2008. Available online at: http://www.knoxcounty.org/stormwater/manual/Volume%201/knoxco_swmm_v1_chap5_jan2008.pdf.

US EPA. Storm Drain System Cleaning, 2012. Available online at: http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&Rbutton=detail&bmp=102.

Efficient Irrigation SD-12



Design Objectives

- ☑ Maximize Infiltration
- ☑ Provide Retention
- ☑ Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Irrigation water provided to landscaped areas may result in excess irrigation water being conveyed into stormwater drainage systems.

Approach

Project plan designs for development and redevelopment should include application methods of irrigation water that minimize runoff of excess irrigation water into the stormwater conveyance system.

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment. (Detached residential single-family homes are typically excluded from this requirement.)

Design Considerations

Designing New Installations

The following methods to reduce excessive irrigation runoff should be considered, and incorporated and implemented where determined applicable and feasible by the Permittee:

- Employ rain-triggered shutoff devices to prevent irrigation after precipitation.
- Design irrigation systems to each landscape area's specific water requirements.
- Include design featuring flow reducers or shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines.
- Implement landscape plans consistent with County or City water conservation resolutions, which may include provision of water sensors, programmable irrigation times (for short cycles), etc.

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- Design timing and application methods of irrigation water to minimize the runoff of excess irrigation water into the storm water drainage system.
- Group plants with similar water requirements in order to reduce excess irrigation runoff and promote surface filtration. Choose plants with low irrigation requirements (for example, native or drought tolerant species). Consider design features such as:
  - Using mulches (such as wood chips or bar) in planter areas without ground cover to minimize sediment in runoff
  - Installing appropriate plant materials for the location, in accordance with amount of sunlight and climate, and use native plant materials where possible and/or as recommended by the landscape architect
  - Leaving a vegetative barrier along the property boundary and interior watercourses, to act as a pollutant filter, where appropriate and feasible
  - Choosing plants that minimize or eliminate the use of fertilizer or pesticides to sustain growth
- Employ other comparable, equally effective methods to reduce irrigation water runoff.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Storm Drain Signage SD-13



Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- ☑ Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Waste materials dumped into storm drain inlets can have severe impacts on receiving and ground waters. Posting notices regarding discharge prohibitions at storm drain inlets can prevent waste dumping. Storm drain signs and stencils are highly visible source controls that are typically placed directly adjacent to storm drain inlets.

Approach

The stencil or affixed sign contains a brief statement that prohibits dumping of improper materials into the urban runoff conveyance system. Storm drain messages have become a popular method of alerting the public about the effects of and the prohibitions against waste disposal.

Suitable Applications

Stencils and signs alert the public to the destination of pollutants discharged to the storm drain. Signs are appropriate in residential, commercial, and industrial areas, as well as any other area where contributions or dumping to storm drains is likely.

Design Considerations

Storm drain message markers or placards are recommended at all storm drain inlets within the boundary of a development project. The marker should be placed in clear sight facing toward anyone approaching the inlet from either side. All storm drain inlet locations should be identified on the development site map.

Designing New Installations

The following methods should be considered for inclusion in the project design and show on project plans:

- Provide stenciling or labeling of all storm drain inlets and catch basins, constructed or modified, within the project area with prohibitive language. Examples include “NO DUMPING

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– DRAINS TO OCEAN" and/or other graphical icons to discourage illegal dumping.

- Post signs with prohibitive language and/or graphical icons, which prohibit illegal dumping at public access points along channels and creeks within the project area.

Note - Some local agencies have approved specific signage and/or storm drain message placards for use. Consult local agency stormwater staff to determine specific requirements for placard types and methods of application.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. If the project meets the definition of "redevelopment", then the requirements stated under " designing new installations" above should be included in all project design plans.

Additional Information

Maintenance Considerations

- Legibility of markers and signs should be maintained. If required by the agency with jurisdiction over the project, the owner/operator or homeowner's association should enter into a maintenance agreement with the agency or record a deed restriction upon the property title to maintain the legibility of placards or signs.

Placement

- Signage on top of curbs tends to weather and fade.

- Signage on face of curbs tends to be worn by contact with vehicle tires and sweeper brooms.

Supplemental Information

Examples

- Most MS4 programs have storm drain signage programs. Some MS4 programs will provide stencils, or arrange for volunteers to stencil storm drains as part of their outreach program.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Maintenance Bays & Docks SD-31



Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- ☑ Prohibit Dumping of Improper Materials
- ☑ Contain Pollutants
- Collect and Convey

Description

Several measures can be taken to prevent operations at maintenance bays and loading docks from contributing a variety of toxic compounds, oil and grease, heavy metals, nutrients, suspended solids, and other pollutants to the stormwater conveyance system.

Approach

In designs for maintenance bays and loading docks, containment is encouraged. Preventative measures include overflow containment structures and dead-end sumps. However, in the case of loading docks from grocery stores and warehouse/distribution centers, engineered infiltration systems may be considered.

Suitable Applications

Appropriate applications include commercial and industrial areas planned for development or redevelopment.

Design Considerations

Design requirements for vehicle maintenance and repair are governed by Building and Fire Codes, and by current local agency ordinances, and zoning requirements. The design criteria described in this fact sheet are meant to enhance and be consistent with these code requirements.

Designing New Installations

Designs of maintenance bays should consider the following:

- Repair/maintenance bays and vehicle parts with fluids should be indoors; or designed to preclude urban run-on and runoff.
- Repair/maintenance floor areas should be paved with Portland cement concrete (or equivalent smooth impervious surface).

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- Repair/maintenance bays should be designed to capture all wash water leaks and spills. Provide impermeable berms, drop inlets, trench catch basins, or overflow containment structures around repair bays to prevent spilled materials and wash-down waters form entering the storm drain system. Connect drains to a sump for collection and disposal. Direct connection of the repair/maintenance bays to the storm drain system is prohibited. If required by local jurisdiction, obtain an Industrial Waste Discharge Permit.

- Other features may be comparable and equally effective.

The following designs of loading/unloading dock areas should be considered:

- Loading dock areas should be covered, or drainage should be designed to preclude urban run-on and runoff.

- Direct connections into storm drains from depressed loading docks (truck wells) are prohibited.

- Below-grade loading docks from grocery stores and warehouse/distribution centers of fresh food items should drain through water quality inlets, or to an engineered infiltration system, or an equally effective alternative. Pre-treatment may also be required.

- Other features may be comparable and equally effective.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Additional Information

Stormwater and non-stormwater will accumulate in containment areas and sumps with impervious surfaces. Contaminated accumulated water must be disposed of in accordance with applicable laws and cannot be discharged directly to the storm drain or sanitary sewer system without the appropriate permit.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Trash Storage Areas SD-32

Description

Trash storage areas are areas where a trash receptacle (s) are located for use as a repository for solid wastes. Stormwater runoff from areas where trash is stored or disposed of can be polluted. In addition, loose trash and debris can be easily transported by water or wind into nearby storm drain inlets, channels, and/or creeks. Waste handling operations that may be sources of stormwater pollution include dumpsters, litter control, and waste piles.

Approach

This fact sheet contains details on the specific measures required to prevent or reduce pollutants in stormwater runoff associated with trash storage and handling. Preventative measures including enclosures, containment structures, and impervious pavements to mitigate spills, should be used to reduce the likelihood of contamination.

Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- ☑ Contain Pollutants
- Collect and Convey

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment. (Detached residential single-family homes are typically excluded from this requirement.)

Design Considerations

Design requirements for waste handling areas are governed by Building and Fire Codes, and by current local agency ordinances and zoning requirements. The design criteria described in this fact sheet are meant to enhance and be consistent with these code and ordinance requirements. Hazardous waste should be handled in accordance with legal requirements established in Title 22, California Code of Regulation.

Wastes from commercial and industrial sites are typically hauled by either public or commercial carriers that may have design or access requirements for waste storage areas. The design criteria in this fact sheet are recommendations and are not intended to be in conflict with requirements established by the waste hauler. The waste hauler should be contacted prior to the design of your site trash collection areas. Conflicts or issues should be discussed with the local agency.

Designing New Installations

Trash storage areas should be designed to consider the following structural or treatment control BMPs:

- Design trash container areas so that drainage from adjoining roofs and pavement is diverted around the area(s) to avoid run-on. This might include berming or grading the waste handling area to prevent run-on of stormwater.
- Make sure trash container areas are screened or walled to prevent off-site transport of trash.

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- Use lined bins or dumpsters to reduce leaking of liquid waste.
- Provide roofs, awnings, or attached lids on all trash containers to minimize direct precipitation and prevent rainfall from entering containers.
- Pave trash storage areas with an impervious surface to mitigate spills.
- Do not locate storm drains in immediate vicinity of the trash storage area.
- Post signs on all dumpsters informing users that hazardous materials are not to be disposed of therein.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Additional Information

Maintenance Considerations

The integrity of structural elements that are subject to damage (i.e., screens, covers, and signs) must be maintained by the owner/operator. Maintenance agreements between the local agency and the owner/operator may be required. Some agencies will require maintenance deed restrictions to be recorded of the property title. If required by the local agency, maintenance agreements or deed restrictions must be executed by the owner/operator before improvement plans are approved.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

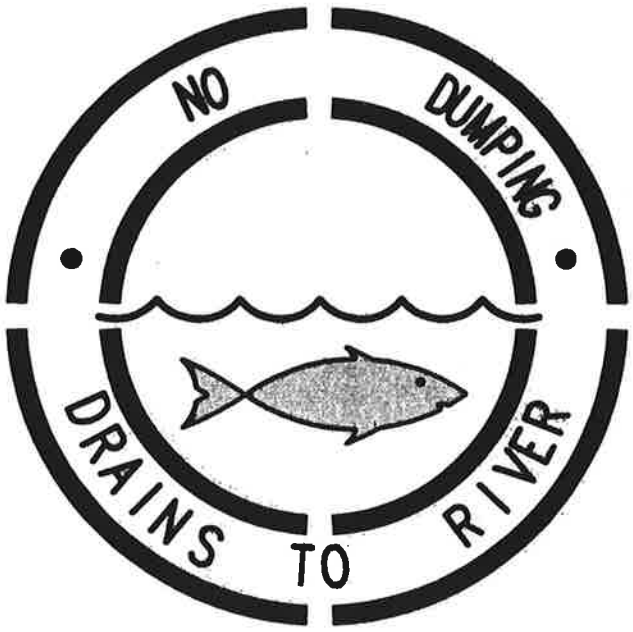
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Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Attachment F
Infiltration Report (NA)

Attachment G
BMP Maintenance Material



SAMPLE STENCIL TO BE USED NEAR GRATE AND CURB OPENING INLETS

SYMBOL TO BE 24" IN DIAMETER

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SAMPLE CATCH BASIN STENCIL
PER BMP SD-13

Drain Inlet Insert MP-52

General Description

Drain inlet inserts, also known as catch basin, drop inlet or curb inlet inserts, are used to remove pollutants at the point of entry to the storm drain system. There are a multitude of inserts of various shapes and configurations including baffles, baskets, boxes, fabrics, sorbent media, screens, and skimmers. The effectiveness of drain inlet inserts depends on their design, application, loading, and frequency of maintenance to remove accumulated sediment, trash, and debris.

Inspection / Maintenance Considerations

Routine inspection and maintenance is necessary to maintain functionality of drain inlet inserts and to prevent re-suspension and discharge of accumulated pollutants. Maintenance activities vary depending on the type of drain inlet insert being implemented; refer to the manufacturer's recommendations for more information.

Advanced BMPs Covered



Maintenance Concerns

- *Sediment, Trash, and Debris Accumulations*
- *Pollutant Re-suspension and Discharge*

Targeted Constituents*

Sediment	✓
Nutrients	✓
Trash	✓
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

**Removal Effectiveness varies for different manufacturer designs. See New Development and Redevelopment Handbook-Section 5 for more information.*

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Inspection Activities	Suggested Frequency
☐ Verify that stormwater enters the unit and does not leak around the perimeter.	After construction.
☐ Inspect for sediment, trash, and debris buildup and proper functioning.	At the beginning of the wet season and after significant storms
Maintenance Activities	**Suggested Frequency**
☐ Remove accumulated sediment, trash, and debris. ☐ Replace sorbent media.	At the beginning of the wet season and as necessary

References

California Department of Transportation. *Treatment BMP Technology Report (CTSW-RT-09-239.06),* April, 2010. http://www.dot.ca.gov/hq/env/stormwater/pdf/CTSW-RT-09-239-06.pdf.

California Stormwater Quality Association. *Stormwater Best Management Practice Handbook, New Development and Redevelopment,* 2003. https://www.casqa.org/resources/bmp-handbooks/new-development-redevelopment-bmp-handbook.

Orange County Stormwater Program. Technical Guidance Document BMP Fact Sheets. http://media.ocgov.com/gov/pw/watersheds/documents/wqmp/tgd/technical_guidance_document_bmp_fact_sheets.asp.

San Francisco Public Utilities Commission, et al. San Francisco Stormwater Design Guidelines. Appendix A, Stormwater BMP Fact Sheets, June, 2010. http://www.sfwater.org/modules/showdocument.aspx?documentid=2778.

Tahoe Regional Planning Agency. Best Management Practices Handbook, 2012. http://www.tahoebmp.org/Documents/2012%20BMP%20Handbook.pdf.

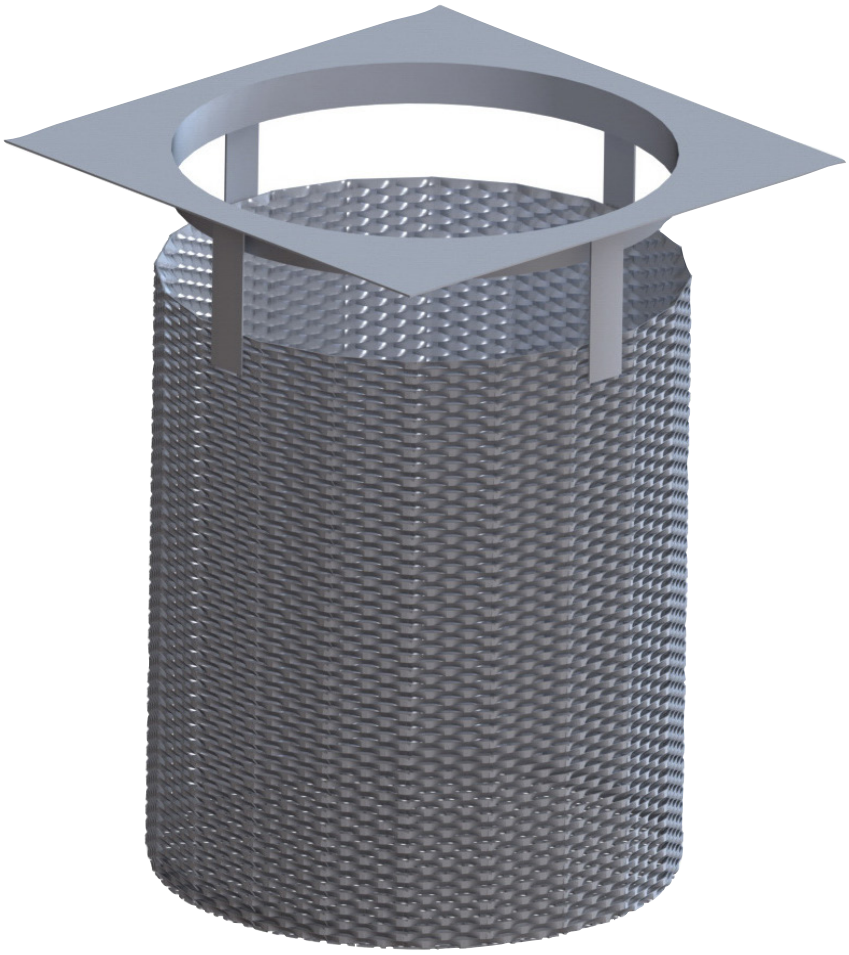
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Ventura Countywide Stormwater Quality Management Program. *Technical Guidance Manual for Stormwater Quality Control Measures,* May, 2010. http://www.vcstormwater.org/documents/workproducts/technicalguidancemanual/2010revisions/Ventura%20Technical%20Guidance%20Document_5-6-10.pdf.

Grate Inlet Filter

Bio Clean
A Forterra Company

OPERATION & MAINTENANCE



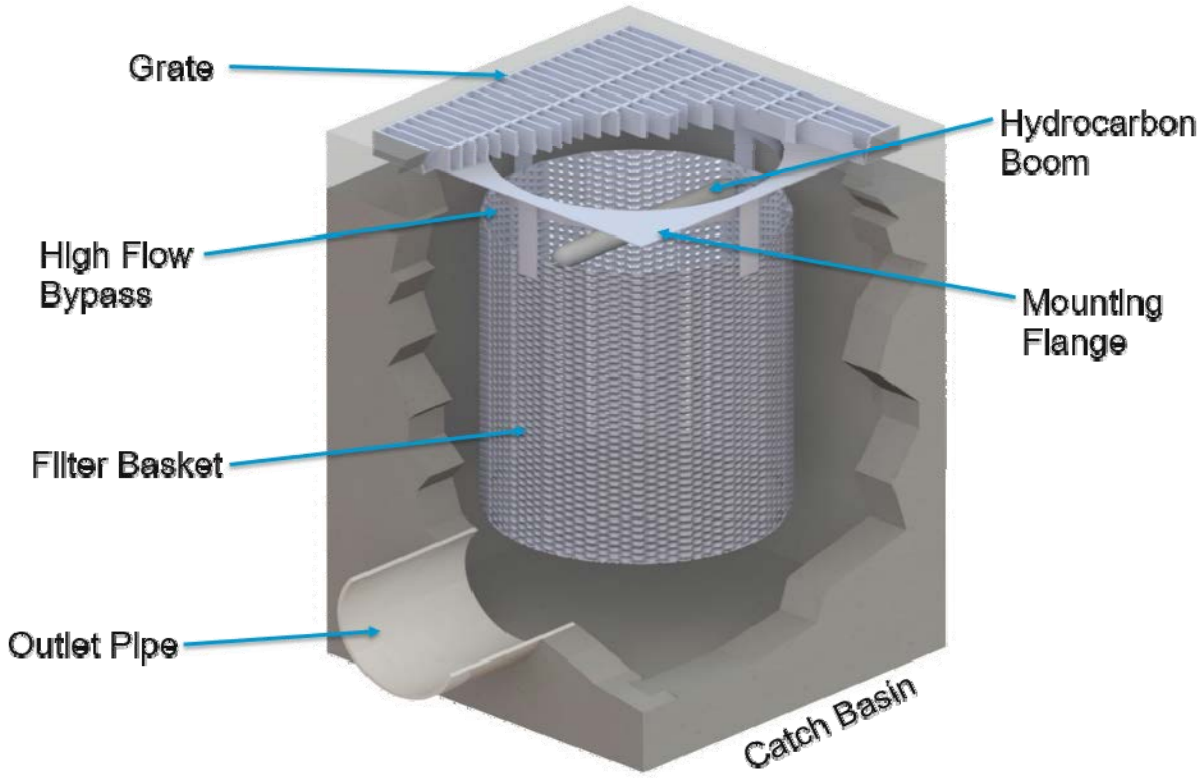
Bio Clean Environmental Services, Inc.
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Oceanside, CA 92058

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f: 760.433.3176

OPERATION & MAINTENANCE

The Bio Clean Grate Inlet Filter is a stormwater device designed to remove high levels of trash, debris, sediments and hydrocarbons. The filter is available in several configurations including trash full capture, multi-level screening, Kraken membrane filter and media filter variations. This manual covers maintenance procedures of the trash full capture and multi-level screening configurations. A supplemental manual is available for the Kraken and media filter variations. This filter is made of 100% stainless steel and is available and various sizes and depths allowing it to fit in any grated catch basin inlet. The filters heavy duty construction allows for cleaning with any vacuum truck. The filet can also easily be cleaned by hand.

As with all stormwater BMPs, inspection and maintenance on the Grate Inlet Filter is necessary. Stormwater regulations require BMPs be inspected and maintained to ensure they are operating as designed to allow for effective pollutant removal and provide protection to receiving water bodies. It is recommended that inspections be performed multiple times during the first year to assess site-specific loading conditions. This is recommended because pollutant loading can vary greatly from site to site. Variables such as nearby soil erosion or construction sites, winter sanding of roads, amount of daily traffic and land use can increase pollutant loading on the system. The first year of inspections can be used to set inspection and maintenance intervals for subsequent years. Without appropriate maintenance a BMP can exceed its storage capacity which can negatively affect its continued performance in removing and retaining captured pollutants.



System Diagram:

Inspection Equipment

Following is a list of equipment to allow for simple and effective inspection of the Grate Inlet Filter:

- Bio Clean Environmental Inspection Form (contained within this manual).
- Manhole hook or appropriate tools to remove access hatches and covers.
- Appropriate traffic control signage and procedures.
- Protective clothing and eye protection.
- Note: entering a confined space requires appropriate safety and certification. It is generally not required for routine inspections or maintenance of the system.



Inspection Steps

The core to any successful stormwater BMP maintenance program is routine inspections. The inspection steps required on the Grate Inlet Filter are quick and easy. As mentioned above the first year should be seen as the maintenance interval establishment phase. During the first year more frequent inspections should occur in order to gather loading data and maintenance requirements for that specific site. This information can be used to establish a base for long-term inspection and maintenance interval requirements.

The Grate Inlet Filter can be inspected though visual observation. All necessary pre-inspection steps must be carried out before inspection occurs, such as safety measures to protect the inspector and nearby pedestrians from any dangers associated with an open grated inlet. Once the grate has been safely removed the inspection process can proceed:

- Prepare the inspection form by writing in the necessary information including project name, location, date & time, unit number and other info (see inspection form).
- Observe the filter with the grate removed.
- Look for any out of the ordinary obstructions on the grate or in the filter and its bypass. Write down any observations on the inspection form.
- Through observation and/or digital photographs estimate the amount of trash, foliage and sediment accumulated inside the filter basket. Record this information on the inspection form.
- Observe the condition and color of the hydrocarbon boom. Record this information on the inspection form.
- Finalize inspection report for analysis by the maintenance manager to determine if maintenance is required.

Maintenance Indicators

Based upon observations made during inspection, maintenance of the system may be required based on the following indicators:

- Missing or damaged internal components.
- Obstructions in the filter basket and its bypass.
- Excessive accumulation of trash, foliage and sediment in the filter basket. Maintenance is required when the basket is greater than half-full.
- The following chart shows the 50% and 100% storage capacity of each filter height:

Model	Filter Basket Diameter (in)	Filter Basket Height (in)	50% Storage Capacity (cu ft)	100% Storage Capacity (cu ft)
BC-GRATE-12-12-12	10.00	12.00	0.27	0.55
BC-GRATE-18-18-18	16.00	18.00	1.05	2.09
BC-GRATE-24-24-24	21.00	24.00	2.41	4.81
BC-GRATE-30-30-24	27.00	24.00	3.98	7.95
BC-GRATE-36-36-24	33.00	24.00	5.94	11.88
BC-GRATE-48-48-18	44.00	18.00	7.92	15.84

Maintenance Equipment

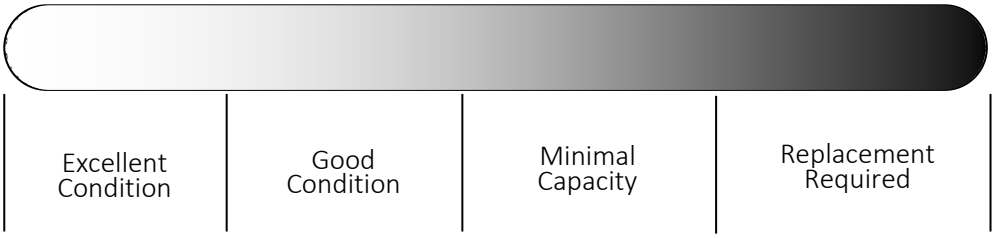
It is recommended that a vacuum truck be utilized to minimize the time required to maintain the Curb Inlet Filter, though it can easily cleaned by hand:

- Bio Clean Environmental Maintenance Form (contained in O&M Manual).
- Manhole hook or appropriate tools to remove the grate.
- Appropriate safety signage and procedures.
- Protective clothing and eye protection.
- Note: entering a confined space requires appropriate safety and certification. It is generally not required for routine maintenance of the system. Small or large vacuum truck (with pressure washer attachment preferred).

Maintenance Procedures

It is recommended that maintenance occurs at least two days after the most recent rain event to allow debris and sediments to dry out. Maintaining the system while flows are still entering it will increase the time and complexity required for maintenance. Cleaning of the Grate Inlet Filter can be performed utilizing a vacuum truck. Once all safety measures have been set up cleaning of the Grate Inlet Filter can proceed as followed:

- Remove grate (traffic control and safety measures to be completed prior).
- Using an extension on a vacuum truck position the hose over the opened catch basin. Insert the vacuum hose down into the filter basket and suck out trash, foliage and sediment. A pressure wash is recommended and will assist in spraying of any debris stuck on the side or bottom of the filter basket. Power wash off the filter basket sides and bottom.
- Next remove the hydrocarbon boom that is attached to the inside of the filter basket. The hydrocarbon boom is fastened to rails on two opposite sides of the basket (vertical rails). Assess the color and condition of the boom using the following information in the next bullet point. If replacement is required install and fasten on a new hydrocarbon boom. Booms can be ordered directly from the manufacturer.
- Follow is a replacement indication color chart for the hydrocarbon booms:



- The last step is to replace the grate and remove all traffic control.
- All removed debris and pollutants shall be disposed of following local and state requirements.
- Disposal requirements for recovered pollutants may vary depending on local guidelines. In most areas the sediment, once dewatered, can be disposed of in a sanitary landfill. It is not anticipated that the sediment would be classified as hazardous waste.
- In the case of damaged components, replacement parts can be ordered from the manufacturer. Hydrocarbon booms can also be ordered directly from the manufacturer as previously noted.

Maintenance Sequence



Remove grate and set up vacuum truck to clean the filter basket.

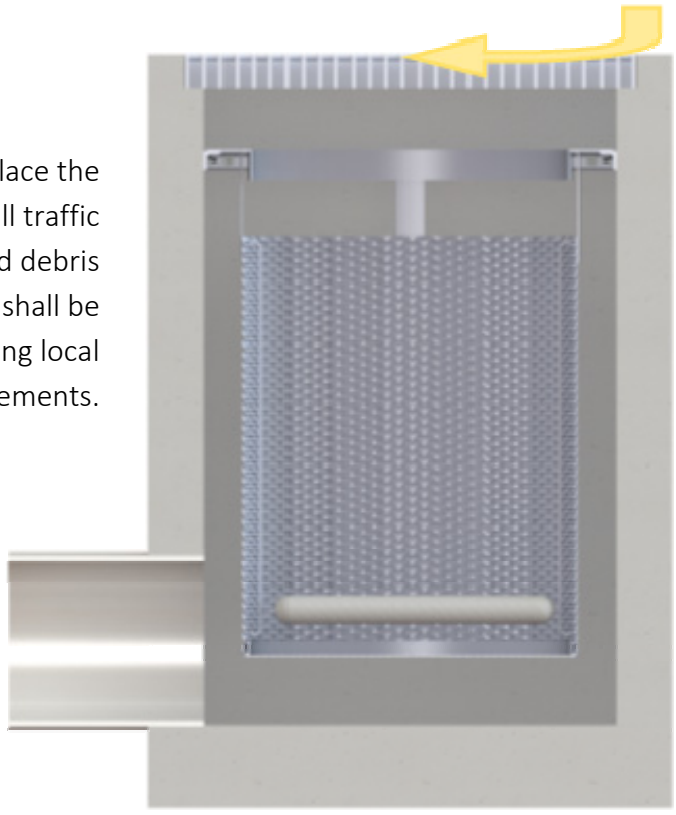


Insert the vacuum hose down into the filter basket and suck out debris. Use a pressure washer to assist in vacuum removal. Pressure wash off screens.



Remove the hydrocarbon boom that is attached to the inside of the filter basket. The hydrocarbon boom is fastened to rails on two opposite sides of the basket (vertical rails). Assess the color and condition of the boom using the following information in the next bullet point. If replacement is required install and fasten on a new hydrocarbon boom.

Close up and replace the grate and remove all traffic control. All removed debris and pollutants shall be disposed of following local and state requirements.



For Maintenance Services or Information Please Contact Us At:
760-433-7640
Or Email:
info@biocleanenvironmental.com

Bio Clean
A Forterra Company

Inspection and Maintenance Report
Catch Basin Only

Project Name _____

Project Address _____
(city) (Zip Code)

Owner / Management Company _____

Contact _____ Phone ( ) –

Inspector Name _____ Date ___/___/___ Time _____ AM / PM

Type of Inspection ☐ Routine ☐ollow Up ☐omplaint ☐torm Storm Event in Last 72-hours? ☐ ☐s

Weather Condition _____ Additional Notes _____

For Office Use Only
(Reviewed By)
(Date)
Office personnel to complete section to the left.

Site Map #	GPS Coordinates of Insert	Catch Basin Size	Evidence of Illicit Discharge?	Trash Accumulation	Foliage Accumulation	Sediment Accumulation	Signs of Structural Damage?	Functioning Properly or Maintenance Needed?
1	Lat: Long:							
2	Lat: Long:							
3	Lat: Long:							
4	Lat: Long:							
5	Lat: Long:							
6	Lat: Long:							
7	Lat: Long:							
8	Lat: Long:							
10	Lat: Long:							
11	Lat: Long:							
12	Lat: Long:							

Comments:

398 Via El Centro, Oceanside, CA 92058 P. 760.433.7640 F. 760.433.3176

Gravity Separators MP-51

General Description

Gravity separators: (alternatively, swirl concentrators, swirl or vortex separators, or hydrodynamic separators) are gravity separators, and in principle are essentially wet vaults. The difference from wet vaults, however, is that the gravity separator is round, rather than rectangular, and the water moves in a centrifugal fashion before exiting. By having the water move in a circular fashion, rather than a straight line as is the case with a standard wet vault, it is possible to obtain significant removal of suspended sediments and attached pollutants with less space. They can provide effective pretreatment when paired with filtration devices, such as media filters or bioretention systems.

Gravity separators were originally developed for combined sewer overflows (CSOs), where they are used primarily to remove coarse inorganic solids. Gravity separation has been adapted to stormwater treatment by several manufacturers.

Inspection/Maintenance Considerations

Gravity separators require routine removal of accumulated sediment, trash, and debris. As some of the systems have standing water that remains between storms, gravity separators can become a nuisance due to mosquito breeding. Also, a loss of dissolved pollutants may occur as accumulated organic matter (e.g., leaves) decomposes in the units.

Advanced BMPs Covered



Maintenance Concerns

- *Sediment, Trash, and Debris Accumulations*
- *Vector Control*

Targeted Constituents*	
Sediment	✓
Nutrients	✓
Trash	✓
Metals	✓
Bacteria	
Oil and Grease	
Organics	

*****Removal Effectiveness varies for different manufacturer designs. See New Development and Redevelopment Handbook-Section 5 for more information.*

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Inspection Activities	Suggested Frequency
☐ Inspect the unit twice during the first wet season of operation, setting the cleaning frequency accordingly.	Post construction
☐ Inspect for floating debris, sediment buildup, and accumulated petroleum products.	Annual
☐ Contact the local mosquito and vector control agency if mosquito breeding is observed or suspected.	As needed
Maintenance Activities	**Suggested Frequency**
☐ Remove sediment that has accumulated in the vault after construction in the drainage area is complete.	Post construction
☐ The recommended frequency of cleaning differs with the manufacturer, ranging from one to two years. ☐ Maintenance consists of the removal of accumulated material with a vactor truck. It may be necessary to remove and dispose the floatables separately due to the presence of petroleum product. Annual maintenance is typical.	Annual, or per manufacturers recommendations
☐ Remove floating debris and accumulated petroleum products as needed. Floating oil should be removed from wet vaults that are used as oil/water separators when oil accumulation exceeds one inch.	Annual, or more frequent as needed

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CONTECH®
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CDS® Inspection and Maintenance Guide



CDS TECHNOLOGIES

Maintenance

The CDS system should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the system collects pollutants will depend more heavily on site activities than the size of the unit. For example, unstable soils or heavy winter sanding will cause the grit chamber to fill more quickly but regular sweeping of paved surfaces will slow accumulation.

Inspection

Inspection is the key to effective maintenance and is easily performed. Pollutant transport and deposition may vary from year to year and regular inspections will help ensure that the system is cleaned out at the appropriate time. At a minimum, inspections should be performed twice per year (e.g. spring and fall) however more frequent inspections may be necessary in climates where winter sanding operations may lead to rapid accumulations, or in equipment washdown areas. Installations should also be inspected more frequently where excessive amounts of trash are expected.

The visual inspection should ascertain that the system components are in working order and that there are no blockages or obstructions in the inlet and separation screen. The inspection should also quantify the accumulation of hydrocarbons, trash, and sediment in the system. Measuring pollutant accumulation can be done with a calibrated dipstick, tape measure or other measuring instrument. If absorbent material is used for enhanced removal of hydrocarbons, the level of discoloration of the sorbent material should also be identified during inspection. It is useful and often required as part of an operating permit to keep a record of each inspection. A simple form for doing so is provided.

Access to the CDS unit is typically achieved through two manhole access covers. One opening allows for inspection and cleanout of the separation chamber (cylinder and screen) and isolated sump. The other allows for inspection and cleanout of sediment captured and retained outside the screen. For deep units, a single manhole access point would allows both sump cleanout and access outside the screen.

The CDS system should be cleaned when the level of sediment has reached 75% of capacity in the isolated sump or when an appreciable level of hydrocarbons and trash has accumulated. If absorbent material is used, it should be replaced when significant discoloration has occurred. Performance will not be impacted until 100% of the sump capacity is exceeded however it is recommended that the system be cleaned prior to that for easier removal of sediment. The level of sediment is easily determined by measuring from finished grade down to the top of the sediment pile. To avoid underestimating the level of sediment in the chamber, the measuring device must be lowered to the top of the sediment pile carefully. Particles at the top of the pile typically offer less resistance to the end of the rod than consolidated particles toward the bottom of the pile. Once this measurement is recorded, it should be compared to the as-built drawing for the unit to determine weather the height of the sediment pile off the bottom of the sump floor exceeds 75% of the total height of isolated sump.

Cleaning

Cleaning of a CDS systems should be done during dry weather conditions when no flow is entering the system. The use of a vacuum truck is generally the most effective and convenient method of removing pollutants from the system. Simply remove the manhole covers and insert the vacuum hose into the sump. The system should be completely drained down and the sump fully evacuated of sediment. The area outside the screen should also be cleaned out if pollutant build-up exists in this area.

In installations where the risk of petroleum spills is small, liquid contaminants may not accumulate as quickly as sediment. However, the system should be cleaned out immediately in the event of an oil or gasoline spill should be cleaned out immediately. Motor oil and other hydrocarbons that accumulate on a more routine basis should be removed when an appreciable layer has been captured. To remove these pollutants, it may be preferable to use absorbent pads since they are usually less expensive to dispose than the oil/water emulsion that may be created by vacuuming the oily layer. Trash and debris can be netted out to separate it from the other pollutants. The screen should be power washed to ensure it is free of trash and debris.

Manhole covers should be securely seated following cleaning activities to prevent leakage of runoff into the system from above and also to ensure that proper safety precautions have been followed. Confined space entry procedures need to be followed if physical access is required. Disposal of all material removed from the CDS system should be done in accordance with local regulations. In many jurisdictions, disposal of the sediments may be handled in the same manner as the disposal of sediments removed from catch basins or deep sump manholes.



CDS Model	Diameter		Distance from Water Surface to Top of Sediment Pile		Sediment Storage Capacity	
	ft	m	ft	m	yd3	m3
CDS2015-4	4	1.2	3.0	0.9	0.5	0.4
CDS2015	5	1.5	3.0	0.9	1.3	1.0
CDS2020	5	1.5	3.5	1.1	1.3	1.0
CDS2025	5	1.5	4.0	1.2	1.3	1.0
CDS3020	6	1.8	4.0	1.2	2.1	1.6
CDS3030	6	1.8	4.6	1.4	2.1	1.6
CDS3035	6	1.8	5.0	1.5	2.1	1.6
CDS4030	8	2.4	4.6	1.4	5.6	4.3
CDS4040	8	2.4	5.7	1.7	5.6	4.3
CDS4045	8	2.4	6.2	1.9	5.6	4.3

Table 1: CDS Maintenance Indicators and Sediment Storage Capacities



Support

- Drawings and specifications are available at www.contechstormwater.com.
- Site-specific design support is available from our engineers.

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CDS Inspection & Maintenance Log

CDS Model: _____ Location: _____

Date	Water depth to sediment[1]	Floatable Layer Thickness[2]	Describe Maintenance Performed	Maintenance Personnel	Comments

1. The water depth to sediment is determined by taking two measurements with a stadia rod: one measurement from the manhole opening to the top of the sediment pile and the other from the manhole opening to the water surface. If the difference between these measurements is less than the values listed in table 1 the system should be cleaned out. **Note: to avoid underestimating the volume of sediment in the chamber, the measuring device must be carefully lowered to the top of the sediment pile.**

2. For optimum performance, the system should be cleaned out when the floating hydrocarbon layer accumulates to an appreciable thickness. In the event of an oil spill, the system should be cleaned immediately.

Infiltration Basin TC-11

General Description

An infiltration basin is a shallow impoundment that is designed to infiltrate stormwater. Infiltration basins store stormwater runoff until it gradually exfiltrates into the underlying soil. Pollutant removal occurs through the infiltration of runoff and the adsorption of pollutants into the soil and vegetation. Additional benefits include:

- Reduced runoff volume and attenuation of peak flows, and
- Facilitated groundwater recharge thus helping to maintain low flows in stream systems.

Inspection / Maintenance Considerations

The use and regular maintenance of pretreatment BMPs will significantly minimize maintenance requirements for the basin. Installing vegetated swales or a sediment forebay upstream from the infiltration basin can provide effective pretreatment and reduce maintenance.

Spill response procedures and controls should be implemented to prevent spills from reaching the infiltration system. This BMP may require groundwater monitoring, and basins cannot be put into operation until the upstream tributary area is stabilized.

Advanced BMPs Covered



Maintenance Concerns

- *Vector Control*
- *Clogged soil or outlet structures*
- *Vegetation/Landscape Maintenance*
- *Groundwater contamination*
- *Accumulation of metals*
- *Aesthetics*

Targeted Constituents

Sediment	■
Nutrients	■
Trash	■
Metals	■
Bacteria	■
Oil and Grease	■
Organics	■

Legend (Removal Effectiveness)

● Low ▲ Medium ■ High

✱ Requires Pretreatment

Note: The removal effectiveness ratings shown in the table are for properly designed, sited, and maintained BMPs; some configurations will have variations in pollutant effectiveness.

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Inspection Activities	Suggested Frequency
☐ Observe drain time for a storm after completion or modification of the facility to confirm that the desired drain time has been obtained. ☐ Newly established vegetation should be inspected several times to determine if any landscape maintenance (reseeding, irrigation, etc.) is necessary. ☐ Inspect for upslope or adjacent contributing sediment sources and ensure that pretreatment systems are in place.	Post construction and semi-annually (beginning and end of rainy season)
☐ Inspect for the following issues: differential accumulation of sediment, signs of wetness or damage to structures, erosion of the basin floor, dead or dying grass on the bottom, condition of riprap, drain time, signs of petroleum hydrocarbon contamination, standing water, trash and debris, sediment accumulation, slope stability, pretreatment device condition	Semi-annually and after extreme events
Maintenance Activities	**Suggested Frequency**
☐ Factors responsible for clogging should be repaired immediately.	Immediately
☐ Remove invasive weeds once monthly during the first two growing seasons.	Monthly during growing season
☐ Stabilize eroded banks with erosion control mat or mulch and revegetate. ☐ Repair undercut and eroded areas at inflow and outflow structures. ☐ Maintain access to the basin for regular maintenance activities. ☐ Mow as appropriate for vegetative cover species. ☐ Monitor health of vegetation and replace as necessary. ☐ Control mosquitoes as necessary. ☐ Remove litter and debris from infiltration basin area as required. ☐ Trim vegetation to prevent establishment of woody vegetation that decreases storage volume.	Standard maintenance (as needed)
☐ Mow and remove grass clippings, litter, and debris. ☐ Replant eroded or barren spots to prevent erosion and accumulation of sediment.	Semi-annual
☐ Scrape bottom and remove sediment when accumulated sediment reduces original infiltration rate by 25-50%. Restore original cross-section and infiltration rate. Properly dispose of sediment. ☐ Seed or sod to restore ground cover. ☐ Disc or otherwise aerate bottom. ☐ Dethatch basin bottom.	3-5 year maintenance

If there are actual signs of clogging or significant loss of infiltrative capacity the following maintenance activities should be considered:

- ☐ Mechanically de-thatching and/or aerating the top soils along the sides and bottom of the basin.
- ☐ Tilling or dicing to scarify the bottom of the basin

These activities should be on an "as-needed" rather than on a routine basis. Always remove deposited sediments before scarification, and use a hand-guided rotary tiller, if possible, or a disc harrow pulled by a light tractor.

Clogged infiltration basins with surface standing water can become a breeding area for mosquitoes and midges. Maintenance efforts associated with infiltration basins should include frequent inspections to ensure that water infiltrates into the subsurface completely (recommended infiltration rate of 96 hours or less) and that vegetation is carefully managed to prevent creating mosquito and other vector habitats.

Additional Information

In most cases, surface sediment removed from an infiltration basin during periodic maintenance to restore capacity does not contain toxic materials (e/g metals, oil and grease, or organics) at levels posing a hazardous concern. Studies to date indicate that pond sediments are generally below toxicity limits and can be safely landfilled or disposed onsite. Onsite sediment disposal is always preferable (if local authorities permit) as long as the sediments are deposited away from the perimeter to prevent their reentry into the basin. Sediments should be tested for toxic materials in compliance with current landfill requirements and disposed of properly.

Maintenance activities should use lightweight equipment (e.g. bobcat), which will not compact the underlying soil to remove the top layer of sediment. The remaining soil should be tilled and revegetated as soon as possible.

Sediment removal within the basin should be performed when the sediment is dry enough so that it is cracked and readily separates from the basin floor. This minimizes intermixing of the finer sediment with underlying coarser material on the basin floor.

Special maintenance considerations are required maintain infiltration basins effectiveness in cold climates. Treating runoff containing salt-based deicers in an infiltration basin may reduce soil fertility cause vegetation to fail. Incorporating mulch into the soil can help to mitigate this problem. Infiltration basins should not be used to store snow plowed from highways or parking lots. The sand in this snow can clog the basin. In addition, the chlorides and other pollutants can contaminate the groundwater.

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Detention • Retention • Water Quality
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Isolator® Row O&M Manual


SC-740


MC-3500


MC-4500

THE MOST **ADVANCED** NAME IN WATER MANAGEMENT SOLUTIONS™

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THE ISOLATOR® ROW

INTRODUCTION

An important component of any Stormwater Pollution Prevention Plan is inspection and maintenance. The StormTech Isolator Row is a technique to inexpensively enhance Total Suspended Solids (TSS) removal and provide easy access for inspection and maintenance.

THE ISOLATOR ROW

The Isolator Row is a row of StormTech chambers, either SC-160LP, SC-310, SC-310-3, SC-740, DC-780, MC-3500 or MC-4500 models, that is surrounded with filter fabric and connected to a closely located manhole for easy access. The fabric-wrapped chambers provide for settling and filtration of sediment as storm water rises in the Isolator Row and ultimately passes through the filter fabric. The open bottom chambers and perforated sidewalls (SC-310, SC- 310-3 and SC-740 models) allow storm water to flow both vertically and horizontally out of the chambers. Sediments are captured in the Isolator Row protecting the storage areas of the adjacent stone and chambers from sediment accumulation.

Two different fabrics are used for the Isolator Row. A woven geotextile fabric is placed between the stone and the Isolator Row chambers. The tough geotextile provides a media for storm water filtration and provides a durable surface for maintenance operations. It is also designed to prevent scour of the underlying stone and remain intact during high pressure jetting. A non-woven fabric is placed over the chambers to provide a filter media for flows passing through the perforations in the sidewall of the chamber. The non-woven fabric is not required over the SC-160LP, DC-780, MC-3500 or MC-4500 models as these chambers do not have perforated side walls.

The Isolator Row is typically designed to capture the “first flush” and offers the versatility to be sized on a volume basis or flow rate basis. An upstream manhole not only provides access to the Isolator Row but typically includes a high flow weir such that storm water flowrates or volumes that exceed the capacity of the Isolator Row overtop the over flow weir and discharge through a manifold to the other chambers.

The Isolator Row may also be part of a treatment train. By treating storm water prior to entry into the chamber system, the service life can be extended and pollutants such as hydrocarbons can be captured. Pre-treatment best management practices can be as simple as deep sump catch basins, oil-water separators or can be innovative storm water treatment devices. The design of the treatment train and selection of pretreatment devices by the design engineer is often driven by regulatory requirements. Whether pretreatment is used or not, the Isolator Row is recommended by StormTech as an effective means to minimize maintenance requirements and maintenance costs.

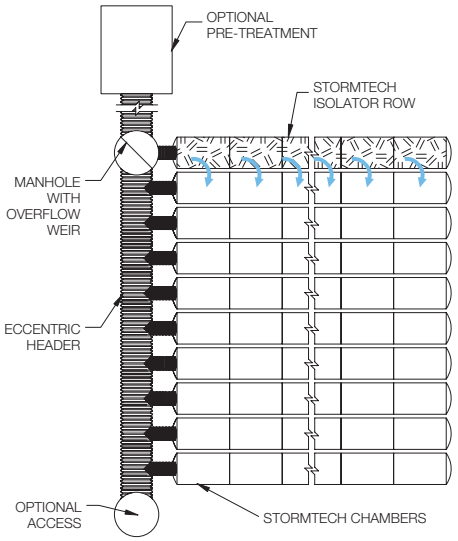
Note: See the StormTech Design Manual for detailed information on designing inlets for a StormTech system, including the Isolator Row.



Looking down the Isolator Row from the manhole opening, woven geotextile is shown between the chamber and stone base.



StormTech Isolator Row with Overflow Spillway (not to scale)





ISOLATOR ROW INSPECTION/MAINTENANCE

INSPECTION

The frequency of inspection and maintenance varies by location. A routine inspection schedule needs to be established for each individual location based upon site specific variables. The type of land use (i.e. industrial, commercial, residential), anticipated pollutant load, percent imperviousness, climate, etc. all play a critical role in determining the actual frequency of inspection and maintenance practices.

At a minimum, StormTech recommends annual inspections. Initially, the Isolator Row should be inspected every 6 months for the first year of operation. For subsequent years, the inspection should be adjusted based upon previous observation of sediment deposition.

The Isolator Row incorporates a combination of standard manhole(s) and strategically located inspection ports (as needed). The inspection ports allow for easy access to the system from the surface, eliminating the need to perform a confined space entry for inspection purposes.

If upon visual inspection it is found that sediment has accumulated, a stadia rod should be inserted to determine the depth of sediment. When the average depth of sediment exceeds 3 inches throughout the length of the Isolator Row, clean-out should be performed.

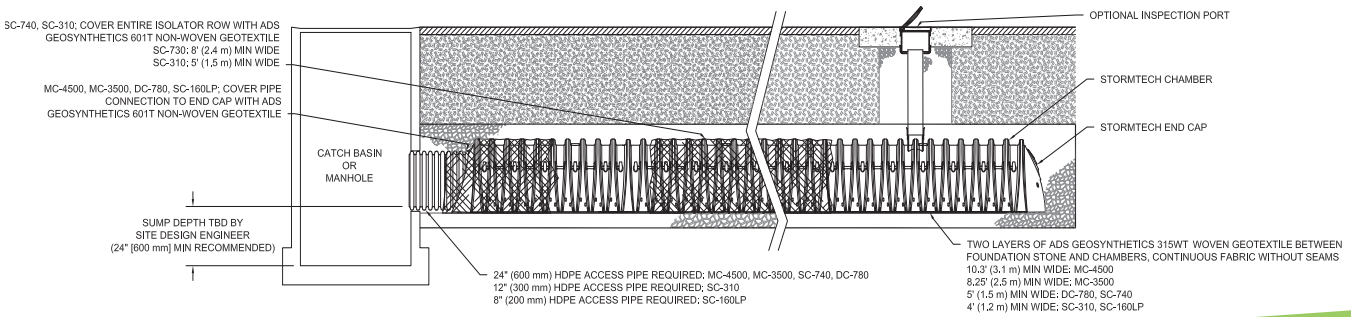
MAINTENANCE

The Isolator Row was designed to reduce the cost of periodic maintenance. By "isolating" sediments to just one row, costs are dramatically reduced by eliminating the need to clean out each row of the entire storage bed. If inspection indicates the potential need for maintenance, access is provided via a manhole(s) located on the end(s) of the row for cleanout. If entry into the manhole is required, please follow local and OSHA rules for a confined space entries.

Maintenance is accomplished with the JetVac process. The JetVac process utilizes a high pressure water nozzle to propel itself down the Isolator Row while scouring and suspending sediments. As the nozzle is retrieved, the captured pollutants are flushed back into the manhole for vacuuming. Most sewer and pipe maintenance companies have vacuum/JetVac combination vehicles. Selection of an appropriate JetVac nozzle will improve maintenance efficiency. Fixed nozzles designed for culverts or large diameter pipe cleaning are preferable. Rear facing jets with an effective spread of at least 45" are best. Most JetVac reels have 400 feet of hose allowing maintenance of an Isolator Row up to 50 chambers long. **The JetVac process shall only be performed on StormTech Isolator Rows that have AASHTO class 1 woven geotextile (as specified by StormTech) over their angular base stone.**

StormTech Isolator Row (not to scale)

Note: Non-woven fabric is only required over the inlet pipe connection into the end cap for SC-160LP, DC-780, MC-3500 and MC-4500 chamber models and is not required over the entire Isolator Row.



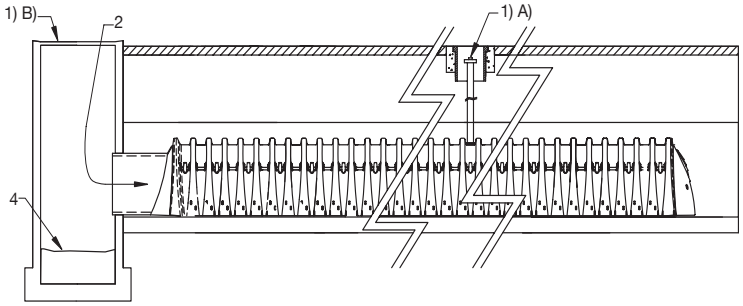
ISOLATOR ROW STEP BY STEP MAINTENANCE PROCEDURES

STEP 1
Inspect Isolator Row for sediment.
- A) Inspection ports (if present)
  - i. Remove lid from floor box frame
  - ii. Remove cap from inspection riser
  - iii. Using a flashlight and stadia rod,measure depth of sediment and record results on maintenance log.
  - iv. If sediment is at or above 3 inch depth, proceed to Step 2. If not, proceed to Step 3.
- B) All Isolator Rows
  - i. Remove cover from manhole at upstream end of Isolator Row
  - ii. Using a flashlight, inspect down Isolator Row through outlet pipe
    1. Mirrors on poles or cameras may be used to avoid a confined space entry
    2. Follow OSHA regulations for confined space entry if entering manhole
  - iii. If sediment is at or above the lower row of sidewall holes (approximately 3 inches), proceed to Step 2. If not, proceed to Step 3.

STEP 2
Clean out Isolator Row using the JetVac process.
- A) A fixed floor cleaning nozzle with rear facing nozzle spread of 45 inches or more is preferable
- B) Apply multiple passes of JetVac until backflush water is clean
- C) Vacuum manhole sump as required

STEP 3
Replace all caps, lids and covers, record observations and actions.

STEP 4
Inspect & clean catch basins and manholes upstream of the StormTech system.



SAMPLE MAINTENANCE LOG

Date	Stadia Rod Readings		Sediment Depth (1)–(2)	Observations/Actions	Inspector
	Fixed point to chamber bottom (1)	Fixed point to top of sediment (2)			
3/15/11	6.3 ft	none		New installation. Fixed point is CI frame at grade	DJM
9/24/11		6.2	0.1 ft	Some grit felt	SM
6/20/13		5.8	0.5 ft	Mucky feel, debris visible in manhole and in Isolator Row, maintenance due	NV
7/7/13	6.3 ft		0	System jetted and vacuumed	DJM

ADS "Terms and Conditions of Sale" are available on the ADS website, www.ads-pipe.com
The ADS logo and the Green Stripe are registered trademarks of Advanced Drainage Systems, Inc.
Stormtech® and the Isolator® Row are registered trademarks of StormTech, Inc.
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StormTech® Detention • Retention • Water Quality
A division of ADS

Advanced Drainage Systems, Inc.
4640 Trueman Blvd., Hilliard, OH 43026
1-800-821-6710 www.ads-pipe.com

Attachment H
Conditions of Approval

Attachment I
Class V Injection Well Registration

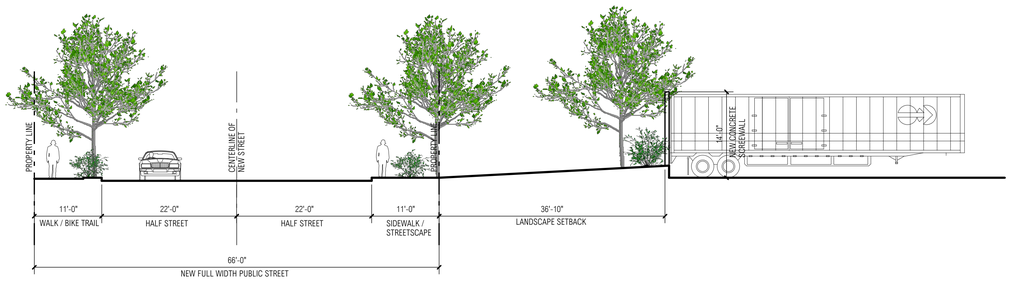
Attachment J
Activity Restrictions

Activity Restrictions

It is the responsibility of the owner to prohibit:

- Vehicle washing, maintenance or repair outside of designated areas
- Hosing down paved areas
- Disposal of animal waste not in appropriate locations
- Use of chemicals, pesticides, toxins, etc. on paved or landscape areas
- Dumping of any waste into drainage facilities
- Blowing or sweeping of debris (leaf litter, grass clippings, litter, etc.) into drainage facilities.
- Discharge of fertilizer or pesticides to drainage facilities
- Keeping dumpsters lids open
- Washing kitchen wastes or kitchen equipment to storm water drainage features
- The owner will inform employees, contractors, etc. that spills are to be swept or vacuumed
- Connections of pool/spa drains to streets or storm drains.
- Discharges of paint or masonry wastes to streets or storm drains

Attachment K
Phase I ESA



STREET SECTION A-A

SCALE: 1" = 10'-0"

SITE PLAN GENERAL NOTES:

1. TYPICAL 90 DEG. PARKING STALLS SIZES ARE 9'W X 18' LONG INCLUDING A 1' LANDSCAPE OVERHANG TYPICAL EXCEPT AT ACCESSIBLE STALLS.

2. PARALLEL STALLS ARE 9' X 24'.

3. SETBACK REQUIREMENTS:

BUILDING SETBACK:	
FRONT:	25 FEET FROM CURBFACE
INTERIOR SIDEYARD:	5 FEET
PARKING SETBACK:	15 FEET FROM CURBFACE

FIRE DEPT. GENERAL NOTES:

1. FIRE ACCESS LANES SHALL COMPLY WITH THE FOLLOWING:

MIN. WIDTH:	26 FEET
MIN. CLEARANCE:	14'-6"
INSIDE RADIUS:	20 FT.
OUTSIDE RADIUS:	46 FT.
WEIGHT CAPACITY:	80,000 LBS.

2. ALL GATES SHALL BE INSTALLED PER THE FIRE DISTRICT REQUIREMENTS.

3. SIGNAGE STANDARDS PER RANCHO CUCAMONGA FIRE PROTECTION DISTRICT DECEMBER 2016.

ASSESSOR'S NUMBERS:

APN: 0229-283-79

KEYNOTES: (00)

1. PROPOSED PAINTED CONCRETE TILT-UP 40' CLEAR INDUSTRIAL BUILDING.

2. TYPICAL PARKING STALL - 9' X 18'. MAY BE REDUCED TO 9' X 17' W/ 1'-0" OVERHANG. STRIPING PER CITY STANDARDS.

3. TYPICAL LOW EMITTING / FUEL EFFICIENT / CARPOOL / VANPOOL PARKING STALL - 9' X 18'. MAY BE REDUCED TO 9' X 17' W/ 1'-0" OVERHANG. STRIPING PER CITY STANDARDS. MINIMUM 8% OF ALL PARKING SPACES PROVIDED PER BUILDING. A MINIMUM OF 6% OF ALL PARKING SPACES PROVIDED PER BUILDING SHALL BE EQUIPPED FOR FUTURE EV CHARGING CAPACITY.

4. 7" THICK CONCRETE YARD W/ GRADE LEVEL TRUCK DOORS AND TRAILER PARKING AREAS.

5. FULLY IRRIGATED LANDSCAPE AREA BOUNDED BY 6" CONCRETE CURB - SEE CONCEPT LANDSCAPE PLAN.

6. PRIMARY BUILDING ENTRANCE W/ DECORATIVE CONCRETE ENTRY WALK.

7. LOCATION OF 8'-0" HIGH TRASH AND RECYCLABLE BINS. SEE SHEET A2-1 FOR ELEVATION AND SECTIONS.

8. NEW 8'-0" HIGH BLACK TUBE STEEL FENCE.

9. PROPERTY LINES.

10. PROPOSED TRANSFORMER LOCATION.

11. 14' X 50' TRUCK TRAILER PARKING AREA.

12. ACCESSIBLE PARKING STALLS 9' X 18'-0" MIN.

13. DASHED LINE INDICATES : NEW 5'-0" WIDE SURFACE WALK ACCESSIBLE PATH OF TRAVEL FROM PUBLIC SIDEWALK & PARKING STALLS TO PRIMARY BUILDING ENTRANCE - CONSTRUCT NEW CONCRETE SIDEWALK. MAX SLOPE OF SURFACE WALK IN THE DIRECTION OF TRAVEL 4.9%. MAX CROSS SLOPE 2%.

14. PROVIDE BREAK AREA / LUNCH PATIO WITH SEATING. SEE PROJECT DATA ON A1-0 FOR MIN SF AREA AND NUMBER OF SEATS.

15. PROPOSED LOCATION FOR FIRE WATER METER AND 2" SUPPLY LINE INTO BUILDING. ABOVE GROUND BACKFLOWS AND DETECTOR CHECK ASSEMBLIES SHALL BE SCREENED BY A 3' MIN. / 4' MAX. CMU WALL ON 3 SIDES, 3' CLEAR TO THE ASSEMBLY. SEE PLAN VIEW.

16. PROPOSED SEWER LATERAL FROM PUBLIC RIGHT OF WAY SERVING BOTH BUILDINGS 1 & 2.

17. NOT USED.

18. NEW CURB AND GUTTER PER CITY STANDARD.

19. PROPOSED ONSITE FIRE HYDRANT LOCATIONS.

20. ALL UTILITY STRUCTURES SUCH AS TRANSFORMERS AND BACK FLOW DEVICES SHALL BE SCREENED BY LANDSCAPE, SEE LANDSCAPE PLAN.

21. CONCRETE LANDING AND BICYCLE RACK FOR BIKES. SEE PROJECT DATA FOR SPACES REQUIRED.

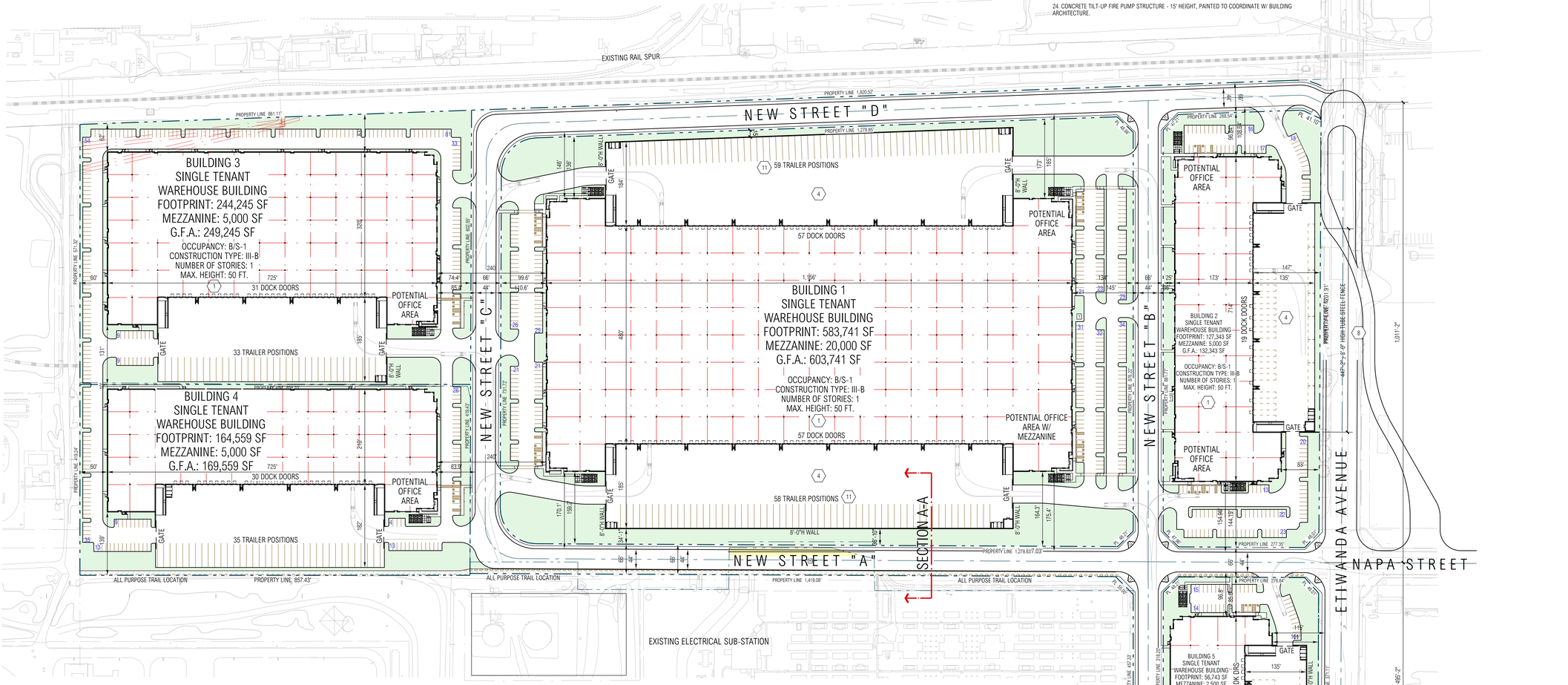
22. LONG TERM MOUNTED BICYCLE RACK. (NOTE LONG TERM RACK TO BE INSTALL ADJACENT TO ELECTRICAL ROOM TO COMPLY WITH CALGREEN). SEE PROJECT DATA FOR SPACES REQUIRED.

23. TYP. 8' HIGH PAINTED CONCRETE SCREEN WALL ELEVATION W/ ACCENT REVEALS AND PAINTED ACCENTS TO MATCH BUILDING ARCHITECTURE.

24. CONCRETE TILT-UP FIRE PUMP STRUCTURE - 15' HEIGHT, PAINTED TO COORDINATE W/ BUILDING ARCHITECTURE.

PROJECT DATA

GENERAL PLAN:	HEAVY INDUSTRIAL
EXISTING ZONE:	INDUSTRIAL EMPLOYMENT (IE)



PROJECT DATA

BLDG.	SITE AREA		FOOTPRINT AREA	MEZZ AREA	OFFICE AREA	WHSE AREA	G.F.A.	FAR COVERAGE	TRUCK DOORS PROVIDED	TRAILER PARKING PROVIDED	TOTAL REQUIRED PARKING	TOTAL PROVIDED PARKING	LANDSCAPE REQUIRED	LANDSCAPE PROVIDED	LANDSCAPE PERCENTAGE	BUILDING INTERIOR CLEAR
1	1,270,962 SF	29.18 AC	583,741 SF	20,000 SF	25,000 SF	578,741 SF	603,741 SF	47.50%	114 DOORS	117 STALLS	265 STALLS	259 STALLS	63,548 SF	186,146 SF	14.65%	40 FEET
2	327,300 SF	7.51 AC	127,343 SF	5,000 SF	10,000 SF	122,343 SF	132,343 SF	40.43%	19 DOORS	20 STALLS	91 STALLS	126 STALLS	16,365 SF	63,359 SF	19.36%	36 FEET
3	504,525 SF	11.58 AC	244,245 SF	5,000 SF	10,000 SF	239,245 SF	249,245 SF	49.40%	31 DOORS	33 STALLS	120 STALLS	186 STALLS	25,226 SF	71,592 SF	14.19%	40 FEET
4	359,743 SF	8.26 AC	164,559 SF	5,000 SF	10,000 SF	159,559 SF	169,559 SF	47.13%	30 DOORS	35 STALLS	100 STALLS	100 STALLS	17,987 SF	44,592 SF	12.40%	36 FEET
5	143,623 SF	3.30 AC	56,743 SF	2,500 SF	5,000 SF	54,243 SF	59,243 SF	41.25%	6 DOORS	6 STALLS	54 STALLS	58 STALLS	7,181 SF	38,559 SF	26.85%	32 FEET
TOTALS	2,606,153 SF	59.83 AC	1,176,631 SF	37,500 SF	60,000 SF	1,154,131 SF	1,214,131 SF	46.59%	200 DOORS	211 STALLS	629 STALLS	729 STALLS	130,308 SF	404,248 SF	15.51%	

SITE PLAN - PHASE 2

SCALE: 1" = 100'-0"

0' 20' 50' 100' 200'

RGA
Office of Architectural Design
15231 Alton Parkway, Suite 100
Irvine, CA 92618
T 949-341-0920
FX 949-341-0922

CONSULTANT

PROFESSIONAL SEALS

ETIWANDA AVENUE RANCHO CUCAMONGA

ETIWANDA AVENUE
CITY OF RANCHO CUCAMONGA, CALIFORNIA

APPLICANT:

BTC III ETIWANDA COMMERCE CENTER
4675 MACARTHUR COURT., SUITE 625
NEWPORT BEACH, CA 92660
TEL: 949-892-4911
CONTACT: CHRIS SANFORD
csanford@aresmgmt.com

OWNER:

BTC III ETIWANDA COMMERCE CENTER
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NEWPORT BEACH, CA 92660
TEL: 949-892-4911
CONTACT: CHRIS SANFORD
csanford@aresmgmt.com

BTC III ETIWANDA COMMERCE CENTER

4675 MACARTHUR COURT
SUITE 625
NEWPORT BEACH, CA 92660
ATTN: CHRIS STANFORD
PH: 949-892-4911

MARK	DATE	DESCRIPTION
SD		
SD	10/21/21	SCHEMATIC DESIGN

RGA PROJECT NO:	19135.00
OWNER PROJECT NO:	00000.00
CAD FILE NAME:	19135-00-A1-1P
DRAWN BY:	JH
CHK'D BY:	JH

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RGA, OFFICE OF ARCHITECTURAL DESIGN

SHEET TITLE

SITE PLAN - PHASE 2

SHEET: A1-1P-2

October 29, 2020

BLACK CREEK GROUP
Contact: *Chris Sanford*
4675 MacArthur Court, Suite 625
Newport Beach, California 92660

SUBJECT: Biological Due Diligence Investigation for the Proposed GenOn Powerplant Project Located at 8996 Etiwanda Avenue, Rancho Cucamonga, San Bernardino County, California

Introduction

This report contains the findings of ELMT Consulting's (ELMT) preliminary biological due diligence investigation for proposed GenOn Powerplant Project (project site or site) located at 8996 Etiwanda Avenue, Rancho Cucamonga, California. The biological due diligence investigation was conducted by ELMT biologist Travis J. McGill and Jacob H. Lloyd Davies on September 29, 2020 to document baseline conditions and to determine the potential for special-status plant and wildlife species to occur on the project site that could pose a constraint to implementation of the proposed project.

Project Location

The project site is generally located north of Interstate 10, east of Interstate 15, south of State Route 210 and west of Etiwanda Avenue in the City of Rancho Cucamonga, California. The site is depicted on the Guasti quadrangle of the United States Geological Survey's (USGS) 7.5-minute map series within Sections 17 and 8 of Township 1 South, Range 6 West. Specifically, the project site is located at 8996 Etiwanda, Avenue, Rancho Cucamonga, California.

Existing Site Conditions

The entire project site has been subject to a variety of anthropogenic disturbances associated with historic agricultural activities and onsite development. Due to historical and current land uses, no undisturbed native plant communities or natural communities of special concern were observed on the project site. These disturbances have eliminated the natural plant communities that once occurred on and surrounding the project site. The project site and site-adjacent improvement areas consists of two (2) land cover types that would be classified as disturbed and developed. Developed areas generally encompass all building/structures, and paved/impervious surfaces. The developed areas within the project site are comprised of the existing industrial development, paved and loose gravel parking lots, and landscaped areas. The heavily disturbed areas are primarily found adjacent to Chadwick Channel, near the center of the project site, and on the northwest corner of the site.

Migratory Corridors and Linkages

Habitat linkages provide links between larger habitat areas that are separated by development. Wildlife corridors are similar to linkages but provide specific opportunities for animals to disperse or migrate between areas. A corridor can be defined as a linear landscape feature of sufficient width to allow animal movement between two comparatively undisturbed habitat fragments. Adequate cover is essential for a corridor to function as a wildlife movement area. It is possible for a habitat corridor to be adequate for one species, yet inadequate for others. Wildlife corridors are significant features for dispersal, seasonal migration, breeding, and foraging. Additionally, open space can provide a buffer against both human disturbance and natural fluctuations in resources.

According to the San Bernardino County General Plan, the project site has not been identified as occurring within a Wildlife Corridor or Linkage. As designated by the San Bernardino County General Plan Open Space Element, the nearest wildlife corridors are the Santa Ana River located approximately 7.5 miles south of the project site, and Chino Hills Open Space located approximately 13 miles southwest of the project.

The proposed project will be confined to existing disturbed and developed areas and is surrounded by development, which has removed natural plant communities from the surrounding area. The project site is isolated from regional wildlife corridors and linkages, specifically the Santa Ana River and Chino Hills Open Space, and there are no riparian corridors, creeks, or useful patches of steppingstone habitat (natural areas) within or connecting the project site to any identified wildlife corridors or linkages in the area. As a result, implementation of the proposed project will not disrupt or have any adverse effects on any migratory corridors or linkages in the surrounding area.

Jurisdictional Areas

There are three key agencies that regulate activities within inland streams, wetlands, and riparian areas in California. The United State Army Corps of Engineers (Corps) Regulatory Branch regulates discharge of dredge and/or fill materials into “waters of the United States” pursuant to Section 404 of the Federal Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. Of the State agencies, the Regional Water Quality Control board (Regional Board) regulates discharges into surface waters pursuant to Section 401 of the CWA and the California Porter-Cologne Water Quality Control Act and the California Department of Fish and Wildlife (CDFW) regulates alterations to streambed and associated plant communities pursuant to Section 1602 of the California Fish and Game Code.

Glen Lukos conducted a jurisdictional delineation in 2020. Based on their findings, it was determined that the project site contains two drainage features: Chadwick Channel and Tributary A. Chadwick Channel is an existing ephemeral drainage in the central portion of the project site that conveys storm flows from the railroad and areas north of the project site, across the middle of the site, to the southern boundary. Chadwick Channel is maintained for flood control purposes and rip rap has been placed at both the northern and southern property boundaries. Tributary A is a small tributary located in the southeastern portion of the project site that conveys storm flows from north to south before leaving the property and continuing to head south. The jurisdictional delineation stated that the onsite drainage features would qualify as waters of the Untied States and fall under the regulatory authority of the Corps, Regional Board and CDFW.

However, Glen Lukos also noted that the jurisdictional delineation was conducted prior to the adoption of

the new Navigable Waters Protection Rule (adopted June 22, 2020) and the new State Wetland Policy, (adopted on May 28, 2020), and recommended that jurisdictional delineation be updated to analyze the onsite drainages under the new regulations.

Prior to site development, and during the processing of CEQA, ELMT recommends that an updated jurisdictional delineation be conducted to verify the extent of aquatic resources onsite and quantify impacts to the onsite drainages under the new regulations. It is ELMT's understanding that the onsite drainage features are ephemeral and only convey water in direct response to precipitation. As a result, under the new Navigable Waters Protection Rule, the Corps will not assert jurisdiction over the onsite drainage features. However, the onsite drainage will likely qualify as waters of the State by the Regional Board, and jurisdictional streambed by CDFW. Impacts to onsite jurisdictional areas will likely require the following regulatory approvals prior to project implementation: Regional Board Report of Waste Discharge permit, and CDFW Section 1602 Lake or Streambed Alteration Agreement.

Special-Status Biological Resources

The literature search identified thirteen (13) special-status plant species and thirty-three (33) special-status wildlife species as having the potential to occur within the Guasti 7.5-minute quadrangle. No special-status plant communities haven been recorded within the Guasti USGS 7.5-minute quadrangle. Special-status plant and wildlife species were evaluated for their potential to occur within the project site based on habitat requirements, availability and quality of suitable habitat, and known distributions. Species determined to have the potential to occur within the general vicinity of the project site is presented in Attachment B*: Potentially Occurring Special-Status Biological Resources*.

Special-Status Plants

According to the CNDDB and CNPS, thirteen (13) special-status plant species have been recorded in the Guasti quadrangle (refer to Attachment B). No special-status plant species were observed onsite during the habitat assessment. The project site has been subject to existing anthropogenic disturbances. These disturbances have reduced the suitability of the habitat to support special-status plant species known to occur in the general vicinity of the project site. Based on habitat requirements for specific special-status plant species and the availability and quality of habitats needed by each species, it was determined that the project site does not provide suitable habitat for any of the special-status plant species known to occur in the area and are presumed to be absent from the project site. A focused survey was conducted during the 2020 blooming season by Glen Lukos and no special-status plant species were observed onsite. No additional studies are recommended.

Special-Status Wildlife

According to the CNDDB, thirty-three (33) special-status wildlife species have been reported in the Guasti quadrangle (refer to Attachment B). San Diego black-tailed jackrabbit (*Lepus californicus bennettii*) and Cooper's hawk (*Accipiter cooperii*) were the only special-status species observed onsite. Disturbances onsite have greatly reduced potential foraging and nesting/denning opportunities for wildlife species onsite. Based on habitat requirements for specific species and the availability and quality of onsite habitats, it was determined that the proposed project site has a moderate potential to support Los Angeles pocket mouse (*Perognathus longimembris brevinasus*; LAPM), and a lot potential to support California horned lark

(*Eremophila alpestris actua*). The undeveloped areas on the western portion of the project site provides marginal foraging and nesting habitat for these species. All remaining special-status wildlife species are presumed to be absent from the project site due to lack of quality habitat.

Focused Surveys

Burrowing Owl

Glen Lukos conducted a focused burrowing owl (*Athene cunicularia*) survey during the 2020 breeding season and no burrowing owls were observed onsite. Out of an abundance of caution, a pre-construction burrowing owl clearance survey should be conducted to ensure burrowing owl remain absent from the project site.

Species Suitability Assessments

Delhi Sands Flower-loving Fly

Ecological Sciences conducted a Delhi Sands flower-loving fly (*Rhaphiomidas terminatus abdominalis*; DSF) suitability assessment in 2020. Based on results of the May 2020 habitat suitability assessment, it was determined that existing conditions are not consistent with those known or expected to support a DSF. As a result of development and disturbances on and surrounding the proposed project site, surface soils have been heavily mixed and compacted. The undeveloped portions of the project site are composed of heavily mixed soils containing alluvial materials (Tujunga Soils and Hilmar loamy sand) from historic agricultural activities, and onsite and surrounding development. The project site is surrounded by existing developments and no longer have connectivity to areas upwind containing Delhi Sands soils, areas subjected to Aeolian processes, or areas supporting DSF populations. Therefore, the soils within the northern portion of the project site were rated as "unsuitable quality" with a habitat quality rating of 1. Therefore, it was determined that the site does not support Delhi Sand soils needed for suitable habitat for DSF and DSF is presumed absent from the project site. No further actions or focused surveys are recommended.

Los Angeles Pocket Mouse

Envira conducted a LAPM habitat suitability assessment in 2020. The suitability assessment focused on two locations, the Chadwick Channel and the northwest corner of the project site. During the assessment, sign of potential LAPM burrows (small mammal burrows) were observed along the north and west boundary of the site. Based on the results of the LAPM suitability assessment, the project site was determined to have the potential to provide suitable habitat for LAPM. A trapping study will need to be conducted in order to determine the presence or absence of LAPM on the project site.

Special-Status Plant Communities

According to the CNDDB, no special-status plant communities are reported to occur in the Guasti USGS 7.5-minute quadrangle. Based on the results of the field investigation, no special-status plant communities were observed onsite. Therefore, no special-status plant communities will be impacted from project implementation.

Critical Habitat

The project site is not located within federally designated Critical Habitat. The nearest designated Critical Habitat is located approximately 3.5 miles north of the project site for San Bernardino kangaroo rat (*Dipodomys merriami parvus*) and approximately 3.7 miles southeast for coastal California gnatcatcher (*Polioptila californica californica*) (refer to Exhibit 6, *Critical Habitat*). Therefore, the loss or adverse modification of Critical Habitat from site development will not occur and consultation with the USFWS for impacts to Critical Habitat will not be required for implementation of the proposed project.

Recommendations

Jurisdictional Areas

ELMT recommends that an updated jurisdictional delineation be conducted to verify the extent of aquatic resources onsite and quantify impacts to the onsite drainages under the new regulations.

Special-Status Species

A LAPM trapping study is recommended to be conducted in order to determine the presence or absence of LAPM on the project site.

Please do not hesitate to contact Tom McGill at (951) 285-6014 or tmcgill@elmtconsulting.com or Travis McGill at (909) 816-1646 or travismcgill@elmtconsulting.com should you have any questions.

Sincerely,

Thomas J. McGill, Ph.D.
Managing Director

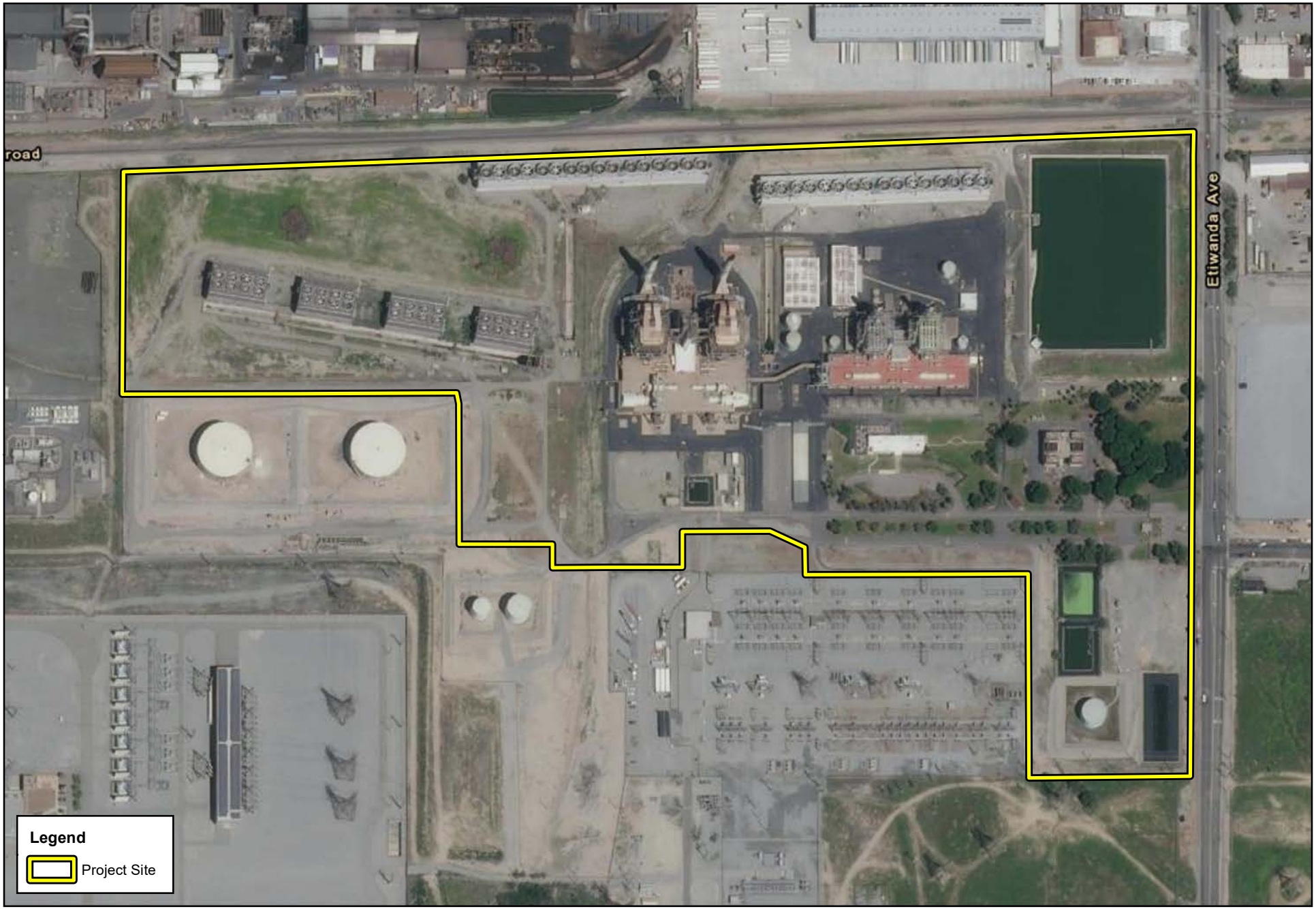
Travis J. McGill
Director

Attachments:

A. *Project Exhibits*
B. *Potentially Occurring Special-Status Biological Resources*

Attachment A

Project Exhibits



ELMT CONSULTING

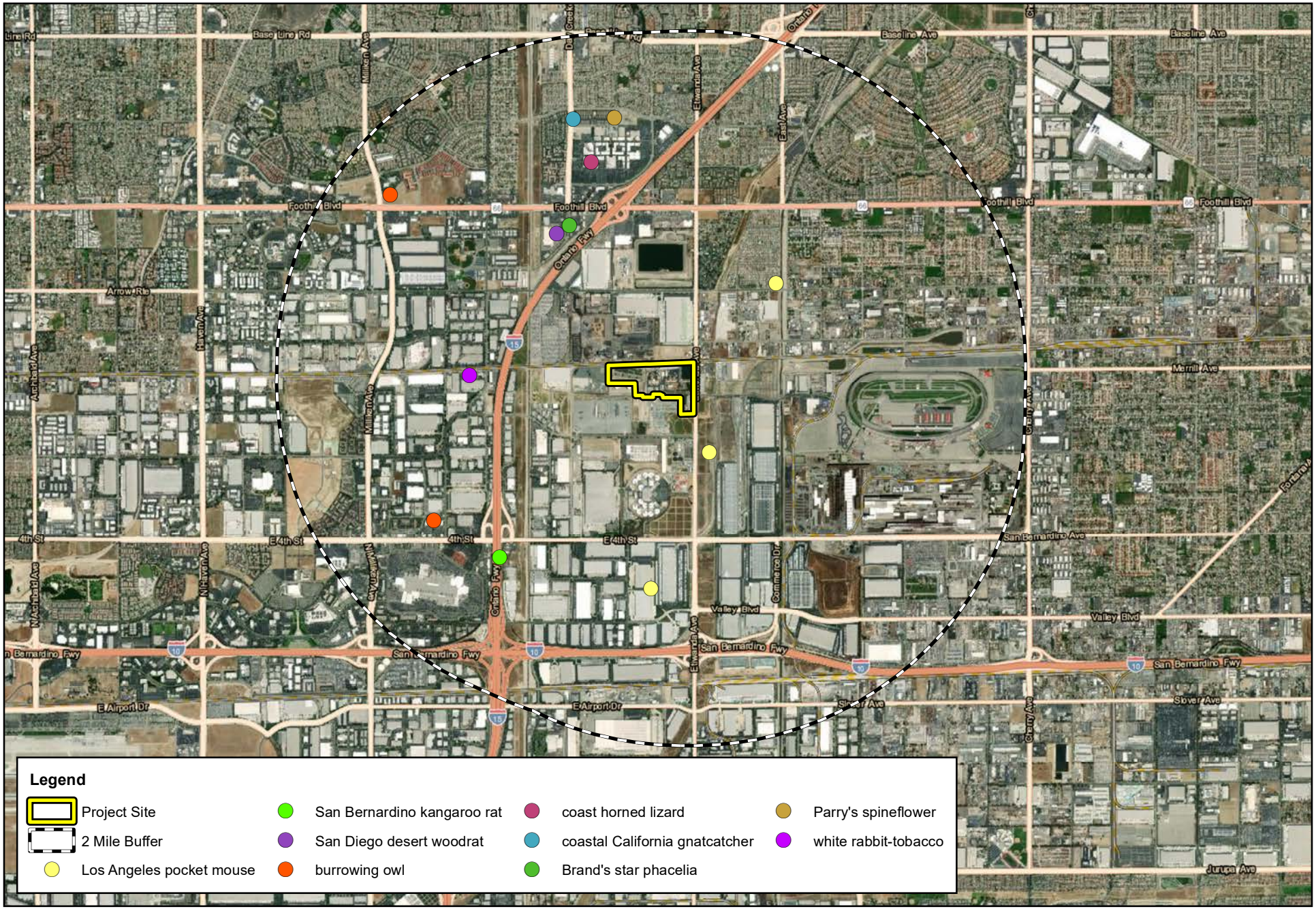
0 125 250 500 Feet

Source: ESRI Aerial Imagery, San Bernardino County

GEN ON
BIOLOGICAL DUE DILIGENCE

Project Site

Exhibit 1



ELMT CONSULTING

0 0.5 1 2 Miles

Source: ESRI Aerial Imagery, San Bernardino County

GEN ON
BIOLOGICAL DUE DILIGENCE

CNDDB Observations

Exhibit 2

Attachment B

Potentially Occurring Special-Status Biological Resources

Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	**Status**	**Habitat**	**Observed Onsite**	**Potential to Occur**
SPECIAL-STATUS WILDLIFE SPECIES				
Accipiter cooperii Cooper's hawk	Fed: None CA: WL	Common yearlong resident of California. Typically forages in broken woodland and habitat edges with dense stands of coast live oak (*Quercus agrifolia*), riparian deciduous, or other forest habitat near water. Usually nests in dense riparian areas, usually near streams.	Yes	**Present**. There is minimal foraging habitat on the disturbed western portion of the project site. The landscaped trees onsite provide limited nesting opportunities. This species is adapted to urban environments and occurs commonly. Was observed by Glen Lukos during the 2020 surveys.
Agelaius tricolor tricolored blackbird	Fed: None CA: **THR**/SSC	Range is limited to the coastal areas of the Pacific coast of North America, from Northern California to upper Baja California. Can be found in a wide variety of habitat including annual grasslands, wet and dry vernal pools and other seasonal wetlands, agricultural fields, cattle feedlots, and dairies. Occasionally forage in riparian scrub habitats along marsh borders. Basic habitat requirements for breeding include open accessible water, protected nesting substrate (freshwater marsh dominated by cattails, willows, and bulrushes [*Schoenoplectus* sp.]), and either flooded or thorny or spiny vegetation and suitable foraging space providing adequate insect prey.	No	**Presumed absent.** No suitable habitat is present on-site.
Aimophila ruficeps canescens southern California rufous-crowned sparrow	Fed: None CA: WL	Typically found between 3,000 and 6,000 feet in elevation. Breed in sparsely vegetated scrubland on hillsides and canyons. Prefers coastal sage scrub dominated by California sagebrush (*Artemisia californica*), but they can also be found breeding in coastal bluff scrub, low-growing serpentine chaparral, and along the edges of tall chaparral habitats.	No	**Presumed absent.** No suitable habitat is present on-site.
Anniella stebbinsi southern California legless lizard	Fed: None CA: SSC	Occurs in sparsely vegetated habitat types including coastal sand dunes, chaparral, pine-oak woodland, desert scrub, open grassland, and riparian areas. Requires sandy or loose loamy substrates conducive to burrowing.	No	**Presumed absent.** No suitable habitat is present on-site.
Ardea alba great egret	Fed: None CA: None	Yearlong resident throughout California, except for the high mountains and deserts. Feeds and rests in fresh, and saline emergent wetlands, along the margins of estuaries, lakes, and slow-moving streams, on mudflats and salt ponds, and in irrigated croplands and pastures.	No	**Presumed absent.** No suitable habitat is present on-site.
Ardea herodias great blue heron	Fed: None CA: None	Fairly common all year throughout most of California, in shallow estuaries and fresh and saline emergent wetlands. Less common along riverine and rocky marine shores, in croplands, pastures, and in mountains about foothills.	No	**Presumed absent.** No suitable habitat is present on-site.
Arizona elegans occidentalis California glossy snake	Fed: None CA: SSC	Occurs in a wide variety of habitat types including open desert, grasslands, shrublands, chaparral, and woodlands. Prefers areas where the soil is loose and sandy which allows for burrowing.	No	**Presumed absent.** No suitable habitat is present on-site.

Scientific Name Common Name	**Status**	**Habitat**	**Observed Onsite**	**Potential to Occur**
Aspidoscelis tigris stejnegeri coastal whiptail	Fed: None CA: SSC	Found in a variety of ecosystems, primarily hot and dry open areas with sparse foliage - chaparral, woodland, and riparian areas.	No	**Presumed absent.** No suitable habitat is present on-site.
Athene cunicularia burrowing owl	Fed: None CA: SSC	Primarily a grassland species, but it persists and even thrives in some landscapes highly altered by human activity. Occurs in open, annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. The overriding characteristics of suitable habitat appear to be burrows for roosting and nesting and relatively short vegetation with only sparse shrubs and taller vegetation.	No	**Presumed absent.** The undeveloped northern portion of the project site provides minimal foraging opportunities. However, no burrowing owls were observed during the 2020 focused survey.
Bombus crotchii Crotch bumble bee	Fed: None CA: CE	Exclusive to coastal California east towards the Sierra-Cascade Crest; less common in western Nevada.	No	**Presumed absent.** No suitable habitat is present on-site.
Calypte costae Costa's hummingbird	Fed: None CA: None	Desert and semi-desert, arid brushy foothills and chaparral. A desert hummingbird that breeds in the Sonoran and Mojave Deserts. Departs desert heat moving into chaparral, scrub, and woodland habitats.	No	**Presumed absent.** No suitable habitat is present on-site.
Chaetodipus fallax fallax northwestern San Diego pocket mouse	Fed: None CA: SSC	Occurs in desert and coastal habitats in southern California, Mexico, and northern Baja California, from sea level to at least 1,400 meters above msl. Found in a variety of temperate habitats ranging from chaparral and grasslands to scrub forests and deserts. Requires low growing vegetation or rocky outcroppings, as well as sandy soils for burrowing.	No	**Presumed absent.** No suitable habitat is present on-site.
Circus hudsonius northern harrier	Fed: None CA: SSC	Frequents meadows, grasslands, open rangelands, desert sinks, fresh and saltwater emergent wetlands; seldom found in wooded areas. Mostly found in flat, or hummocky, open areas of tall, dense grasses moist or dry shrubs, and edges for nesting, cover, and feeding.	No	**Presumed absent.** No suitable habitat is present on-site.
Dipodomys merriami parvus San Bernardino kangaroo rat	Fed: **END** CA: CE/SSC	Primarily found in Riversidean alluvial fan sage scrub (RAFSS) and sandy loam soils, alluvial fans and flood plains, and along washes with nearby sage scrub. May also occur at lower densities in Riversidean upland sage scrub, chaparral and grassland in uplands and tributaries in proximity to RAFSS habitat. Tends to avoid rocky substrates.	No	**Presumed absent.** No suitable habitat is present on-site.
Dipodomys simulans Dulzura kangaroo rat	Fed: None CA: None	Relatively common in chaparral, coastal sage scrub, Riversidean alluvial fan sage scrub, and peninsular juniper woodland habitats.	No	**Presumed absent.** No suitable habitat is present on-site.
Dipodomys stephensi Stephens' kangaroo rat	Fed: **END** CA: **THR**	Occur in arid and semi-arid habitats with some grass or brush. Prefer open habitats with less than 50% protective cover. Require soft, well-drained substrate for building burrows and are typically found in areas with sandy soil.	No	**Presumed absent.** No suitable habitat is present on-site.
Egretta thula snowy egret	Fed: None CA: None	Widespread in California along shores of coastal estuaries, fresh and saline emergent wetlands, ponds, slow-moving rivers, irrigation ditches, and wet fields. In southern California, common yearlong in the Imperial Valley and along the Colorado River.	No	**Presumed absent.** No suitable habitat is present on-site.
Elanus leucurus white-tailed kite	Fed: None CA: FP	Widespread in California along shores of coastal estuaries, fresh and saline emergent wetlands, ponds, slow-moving rivers, irrigation ditches, and wet fields. In southern California, common yearlong in the Imperial Valley and along the Colorado River.	No	**Presumed absent.** No suitable habitat is present on-site.

Scientific Name Common Name	**Status**	**Habitat**	**Observed Onsite**	**Potential to Occur**
Eremophila alpestris actia California horned lark	Fed: None CA: WL	Occurs in meadows, grasslands, open fields, prairie, and alkali flats. This subspecies is typically found in coastal regions.	No	**Low.** There is limited foraging habitat and minimal nesting opportunities within the disturbed northern portion of the project site.
Eumops perotis californicus western mastiff bat	Fed: None CA: SSC	Primarily a cliff-dwelling species, roost generally under exfoliating rock slabs. Roosts are generally high above the ground, usually allowing a clear vertical drop of at least 3 meters below the entrance for flight. In California, it is most frequently encountered in broad open areas including dry desert washes, flood plains, chaparral, oak woodland, open ponderosa pine forest, grassland, and agricultural areas.	No	**Presumed absent.** No suitable habitat is present on-site.
Lanius ludovicianus loggerhead shrike	Fed: None CA: SSC	Common yearlong resident of California. Prefers open habitats with bare ground, scattered shrubs, and areas with low or sparse herbaceous cover. Requires suitable perches including trees, posts, fences, utility lines, or other perches.	No	**Presumed absent.** No suitable habitat is present on-site.
Larus californicus California gull	Fed: None CA: WL	Require isolated islands in rivers, reservoirs and natural lakes for nesting, where predations pressures from terrestrial mammals are diminished. Uses both fresh and saline aquatic habitats at variable elevations and degrees of aridity for nesting and for opportunistic foraging.	No	**Presumed absent.** No suitable habitat is present on-site.
Lasiurus xanthinus western yellow bat	Fed: None CA: SSC	Occurs in valley/foothill riparian, desert riparian, desert wash, and palm oasis habitats. Roosts under palm trees and feeds in, and near, palm oases and riparian habitats.	No	**Presumed absent.** No suitable habitat is present on-site.
Laterallus jamaicensis coturniculus California black rail	Fed: None CA: THR/FP	Shallow marshes, and wet meadows; in winter, drier fresh-water and brackish marshes, as well as dense, deep grass.	No	**Presumed absent.** No suitable habitat is present on-site.
Lepus californicus bennettii San Diego black-tailed jackrabbit	Fed: None CA: SSC	Occupies many diverse habitats, but primarily is found in arid regions supporting short-grass habitats, agricultural fields, or sparse coastal scrub.	Yes	**Present.** Observed onsite during the 2020 surveys conducted by Glen Lukos.
Neotoma lepida intermedia San Diego desert woodrat	Fed: None CA: SSC	Occurs in coastal scrub communities between San Luis Obispo and San Diego Counties. Prefers moderate to dense canopies, and especially rocky outcrops.	No	**Presumed absent.** No suitable habitat is present on-site.
Nycticorax nycticorax black-crowned night heron	Fed: None CA: None	Common in wetlands across North America, including saltmarshes, freshwater marshes, swamps, streams, rivers, lakes, ponds, lagoons, tidal mudflats, and wet agricultural fields. They require aquatic habitat for foraging and terrestrial vegetation for cover.	No	**Presumed absent.** No suitable habitat is present on-site.
Perognathus longimembris brevinasus Los Angeles pocket mouse	Fed: None CA: SSC	Occurs in lower elevation grasslands and coastal sage scrub communities in and around the Los Angeles Basin. Prefers open ground with fine sandy soils. May not dig extensive burrows, but instead will seek refuge under weeds and dead leaves instead.	No	**Moderate.** Suitable burrows were observed onsite. This species has been previously documented in the area. A focused survey should be conducted to determine presence/absence.
Perognathus longimembris pacificus Pacific pocket mouse	Fed: **END** CA: SSC	Occurs on loose sandy soils that support sparse coastal sage scrub, grassland, and ruderal habitats.	No	**Presumed absent.** No suitable habitat is present on-site.

Scientific Name Common Name	**Status**	**Habitat**	**Observed Onsite**	**Potential to Occur**
Phrynosoma blainvillii coast horned lizard	Fed: None CA: SSC	Found in a wide variety of vegetation types including coastal sage scrub, annual grassland, chaparral, oak woodland, riparian woodland and coniferous forest. The key elements of such habitats are loose, fine soils with a high sand fraction; an abundance of native ants or other insects; and open areas with limited overstory for basking and low, but relatively dense shrubs for refuge.	No	**Presumed absent.** No suitable habitat is present on-site.
Polioptila californica californica coastal California gnatcatcher	Fed: **THR** CA: SSC	Common yearlong resident of southern California in sage scrub habitats that are dominated by California sagebrush (*Artemisia californica*). Prefers scrub habitat with more low-growing vegetation. Species generally occurs below 750 feet above mean sea level (msl) along the coast and below 1,500 feet above msl within inland regions.	No	**Presumed absent.** No suitable habitat is present on-site.
Rhaphiomidas terminatus abdominalis Delhi Sands flower-loving fly	Fed: **END** CA: None	DSF habitat is limited to areas that include Delhi fine sand, an aeolian (wind-deposited) soil type. The highest density of DSF have been found in habitat that includes a variety of plants including California buckwheat, California croton, deerweed, and telegraph weed.	No	**Presumed absent.** No suitable habitat is present onsite. Based on the results of the DSF suitability assessment, it was determined that the project site does not support clean/uncontaminated Delhi Sand soils needed to support DSF.
Spizella breweri Brewer's sparrow	Fed: None CA: None	Habitats include sagebrush and brushy plains.	No	**Presumed absent.** No suitable habitat is present on-site.
SPECIAL-STATUS PLANT SPECIES				
Calochortus catalinae Catalina mariposa-lily	Fed: None CA: None CNPS: 4.2	Grows in chaparral, cismontane woodland, coastal scrub, and valley and foothill grassland habitats. Found at elevations ranging from 49 to 2,297 feet. Blooming period is from March to June.	No	**Presumed absent**. No suitable habitat is present.
Calochortus plummerae Plummer's mariposa-lily	Fed: None CA: None CNPS: 4.2	Prefers openings in chaparral, foothill woodland, coastal sage scrub, valley and foothill grasslands, cismontane woodland, lower montane coniferous forest and yellow pine forest. Often found on dry, rocky slopes and soils and brushy areas. Can be very common after a fire. From 328 to 5,577 feet in elevation. Blooming period is from May to July.	No	**Presumed absent**. No suitable habitat is present.
Chorizanthe parryi* var. *parryi Parry's spineflower	Fed: None CA: None CNPS: 1B.1	Occurs on sandy and/or rocky soils in chaparral, coastal sage scrub, and sandy openings within alluvial washes and margins. Found at elevations ranging from 951 to 3,773 feet. Blooming period is from April to June.	No	**Presumed absent**. No suitable habitat is present.
Cladium californicum California saw-grass	Fed: None CA: None CNPS: 2B.2	Found in meadows and seeps, marshes and alkaline swamps or freshwater habitats. Found at elevations ranging from 197 to 5,249 feet. Blooming period is from June to September.	No	**Presumed absent**. No suitable habitat is present.
Deinandra paniculata paniculate tarplant	Fed: None CA: None CNPS: 4.2	Typically found in vernally mesic, sometimes sandy soils in coastal scrub, valley and foothill grasslands, and vernal pools. Found at elevations ranging from 82 to 3,084 feet. Blooming period is from April to November.	No	**Presumed absent**. No suitable habitat is present.
Horkelia cuneata* var. *puberula mesa horkelia	Fed: None CA: None CNPS: 4.2	Occurs on sandy or gravelly soils in chaparral, woodlands, and coastal scrub plant communities. Found at elevations ranging from 230 to 2,657 feet. Blooming period is from February to September.	No	**Presumed absent**. No suitable habitat is present.

Scientific Name Common Name	**Status**	**Habitat**	**Observed Onsite**	**Potential to Occur**
Juglans californica southern California black walnut	Fed: None CA: None CNPS: 4.2	Found in chaparral, cismontane woodland, coastal scrub, and riparian woodland habitats. Found at elevations ranging from 164 to 2,953 feet. Blooming period is from March to August.	No	**Presumed absent**. No suitable habitat is present.
Muhlenbergia californica California muhly	Fed: None CA: None CNPS: 4.3	Found in mesic, seeps, and streambanks within chaparral, coastal scrub, lower montane coniferous forest, and meadows and seeps. Found at elevations ranging from 328 to 6,562 feet. Blooming period is from June to September.	No	**Presumed absent**. No suitable habitat is present.
Muhlenbergia utilis aparego grass	Fed: None CA: None CNPS: 2B.2	Native to north and central America. Grows in wet habitats, including riverbanks and meadows, sometimes alkaline soils. Blooming period is from October to March.	No	**Presumed absent**. No suitable habitat is present.
Navarretia prostrata prostrate vernal pool navarretia	Fed: None CA: None CNPS: 1B.2	Found in mesic soils in coastal scrub, meadows and seeps, valley and foothill grasslands (alkaline), and vernal pools. Found at elevations ranging from 65 to 2,100 feet. Blooming period is from April to July.	No	**Presumed absent**. No suitable habitat is present.
Phacelia stellaris Brand's star phacelia	Fed: None CA: None CNPS: 1B.1	Occurs in coastal dunes and coastal sage scrub habitats. In western Riverside County this species is restricted to sandy benches along the Santa Ana River. Grows in elevations ranging from 3 to 1,312 feet. Blooming period is from March to June.	No	**Presumed absent**. No suitable habitat is present.
Pseudognaphalium leucocephalum white rabbit-tobacco	Fed: None CA: None CNPS: 2B.2	Grows in sandy, gravelly soils within chaparral, cismontane woodland, coastal scrub, and riparian woodland habitats. Found at elevations ranging from 0 to 6,890 feet. Blooming period is from July to December.	No	**Presumed absent**. No suitable habitat is present.
Symphyotrichum defoliatum San Bernardino aster	Fed: None CA: None CNPS: 1B.2	Grows in cismontane woodland, coastal scrub, lower montane coniferous forest, meadows and seeps, marshes and swamps, valley and foothill grassland (vernally mesic). Can be found growing near ditches, streams, and springs within these habitats. Found at elevations ranging from 7 to 6,693 feet. Blooming period is from July to November.	No	**Presumed absent**. No suitable habitat is present.

U.S. Fish and Wildlife Service (USFWS) - Federal
END - Federally Endangered
THR - Federally Threatened

California Department of Fish and Wildlife (CDFW) - California
END - State Endangered
CEND - State Candidate Endangered
SSC - Species of Special Concern
WL - Watch List
FP - Fully Protected

California Native Plant Society (CNPS)
California Rare Plant Rank
1A Plants Presumed Extirpated in California and Either Rare or Extinct Elsewhere
1B Plants Rare, Threatened, or Endangered in California and Elsewhere
2B Plants Rare, Threatened, or Endangered in California, but More Common Elsewhere
4 Plants of Limited Distribution – A Watch List

Threat Ranks
0.1 - Seriously threatened in California
0.2 - Moderately threatened in California
0.3 - Not very threatened in California

Resource Area	Request	Responsible Party	Applicant/City Response	Ascent follow-up			
		yellow highlight =	no response provided				
Project Description							
	List of project objectives from the applicant and approved by the City	Applicant/City					
	List of potential discretionary permits and approvals required	City		*Complete (see NOP)*			
	Description of existing buildings/structures on the project site, including: number of stories and height; total building area (square feet); existing uses/operations, and total area of each; status of operations as active or inactive/vacant; historical duration of existing uses/activities (e.g., number of years operating at existing activity levels)	Applicant	All buildings and structures have been demolished. Prior use: site was used as a power generation plant by SCE. There were approximately 330,740 sf of exisitng buildings on the site: offices: 11,92 sf, power generation: 154,645 sf, cooling towers: 131,767 sf, misc. support buildings: 32,404 sf. Buildings very on the site from 1 story to 3 stories in height.	*ok*			
	Description of each proposed land use type: **Unit amount (e.g., square footage) by building type (e.g., warehouse, cold storage, offices)	Applicant	Parcel 1/ Bldg 1: 558,741 SF warehouse; 25,000 SF office Parcel 2/ Bldg 2: 117,343 SF warehouse; 10,000 SF office Parcel 3/ Bldg 3: 234,245 SF warehouse; 10,000 SF office Parcel 4/ Bldg 4: 154,559 SF warehouse; 10,000 SF office Parcel 5/ Bldg 5: 51,743 SF warehouse; 5,000 SF office Buildings are speculative. However, the following assumptions should be made: General warehouse (27%); High-Cube Fullfillment non-sorting (63%); High-Cube Cold Storage (10%)	*Total warehouse area (sf)*	*1,116,631*	*General warehouse (27%)*	*301,490*
	Total acreage to be paved	Applicant	Excluding new public streets, the total paved areas is 21.94 acres.	*Also need paved/impervious acreage for new public streets*		*High-Cube Fulfillment non-sorting (63%)*	*703,478*
	Proposed uses/building functions: whether cold storage provided, NAICS industrial code, number of employees, commodity type, location in supply chain (parts, manufacture/assembly, wholesale/distributor, retailer)	Applicant	Tenant is unknown at this time.	*ok*		*High-Cube Cold Storage (10%)*	*111,663*
	Description of on-site utility improvements	Applicant	All on-site utilities will be new, including but not limited to: storm drain, sewer, domestic water, electrical power, & telecommunication.	*Need details, including capacity and location. Provide plan sheets if available.*			
	Would any off-site improvements (i.e. utilities, roadways, etc) be required? If so, provide details on type, length, size, location, timing.	Applicant	Off-site improvements will be incorporated into the project's scope once applicant and city have coordinated the corresponding needs, requirements and conditions.	*If off-site improvements are required to serve the project, they need to be described and evaluated in the EIR.*			
	Would an amendment to the Circulation Element be required for any of the proposed roadways?	City					
	Operation characteristics (first year of operation, anticipated hours of operation, estimated number of employees onsite per day or per shift)	Applicant	Tenant is unknown at this time. Use standard industry assumptions for a speculative project.	*ok*			
	Description of building design, building materials	Applicant	Contemporary indutrial buildings constructed of concrete walls, glazing system with aluminum mullions, steel columns, roof joists, and wood roof deck.	*need more objective description of details like materials, colors, windows, and so on.*			
	Details of compliance with General Plan Policy RC-5.6 regarding preparation of community benefit plans for projects generating or accommodating more than 100 trucks per days, more than 40 trucks with TRUs per day, or TRU unit operations exceeding 300 hours per week	City/Applicant	Applicant will work with the city to prepare the corresponding community benefit plan to demonstrate an offset to the impacts.	*Need to understand specific elements/project features included in this plan.*			
	Details of compliance with General Plan Policy RC-5.9 regarding installation of electric Truck Hook-ups at New Industrial and Commercial Developments	City/Applicant	Applicant will work with the city to propose a plan for installation of electric truck charging hook-ups.	*Need to understand details such as number, location, type/specifications of charging infrastructure.*			
	Details of compliance with South Coast AQMD Rule 2305 (Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions [WAIRE] Program) – applies to warehouses 100,000 sf or greater	City/Applicant	Tenant is unknown at this time, but will comply.	*Would help to understand project features proposed in anticipation of WAIRE requirements, e.g., infrastructure for charging ZE/NZE trucks; infrastructure for charging ZE yard trucks; kilowatt rating of proposed rooftop solar systems; anticipated kWh generated by proposed solar systems; air filtration systems (MERV 16 or greater)*				
	Any best practices being incorporated into the project in response to California Attorney General. For reference, refer to: Warehouse Best Practice Document September 2022 (ca.gov) https://oag.ca.gov/system/files/media/warehouse-best-practices.pdf	Applicant	Tenant is unknown at this time.	*Discuss with City*			60,000
	Any other sustainability features included in the proposed project, including, but not limited to, features related to charging of cars and/or heavy duty trucks, electric truck hook ups to avoid idling, features to generate solar/renewable electricity on-site, features to minimize water consumption, electrification of on-site equipment/vehicles (e.g., forklifts, yard equipment)	Applicant	LEED certification will be procured for this project. EV car charging, infrastructure for future truck charging, roof top solar for office spaces, low flow plumbing fixtures, drought tolerant landscaping with drip irrigation, LED light fixtures, all concrete site paving	*Describe the specific features included in the project, e.g., number, capacity, type, specification for chargers, solar systems, fixtures*			
	Exterior lighting and signage improvement specifics	Applicant	Exterior lighting will be designed and installed throughout the site via street light posts; parking lot light posts; building lights; and landscape lighting. Primary monument signs will be installed at the two main access points, and building signage to be installed at the visible locations.	*Need more details for exterior lighting, e.g., type of distribution, lumens. Provide lighting plan if available.*			
	Any loading/queueing space, per RCMC Section 17.64.100?	City/Applicant	A total of 200 loading dock spaces are proposed, which corresponds to the 200 loading bays. At least one truck queuing space is provided for each ten loading bays.	*ok*			
	Bicycle parking? Per RCMC Section 17.64.110	City/Applicant	Long-term bicycle parking will be provided at each building at a minimum ratio of 5% of required motorized vehicle spaces.	*ok*			
	Parking Management Plan status or copy, per RCMC Section 17.64.070	City/Applicant	A general Parking Management Plan will be provided by the applicant and will assume the same land-use classifications being utilized for traffic analysis.	*ok*			
	Label each proposed new public street with a unique ID (e.g., new public street A, new public street B)	City/Applicant	Site plan is labeled as indicated.	*Confirm shown on plans we have*			
	Confirm the project would not involve any uses generating "visitor traffic" (e.g., customers separate from employees and truck trailers)	Applicant	Tenants are unknown at this time.	*ok*			
	Copy of landscape plan	Applicant	Provided	*Confirm shown on plans we have*			
Construction	Total amount of acres (or cubic yards of cut/fill) that will be graded	Applicant	Site will be balanced: 217,456 CY	*ok*			
Construction	Maximum amount of the acreage indicated in previous row that will be disturbed on a daily basis	Applicant	8,700 CY	*ok*			
Aesthetics	Existing site photos	Applicant	Provided	*Confirm we have*			
	Visual simulations (if available)	Applicant	Not available at this time	*ok*			
	Confirm extent of any tree/vegetation removal required	Applicant	All trees have been removed under Tree Removal Permit DRC2022-00125	*ok*			
AQ/Noise	Any planned residential uses (or other sensitive receptors like schools) adjacent to or in the vicinity of the project sites.	City	None	*ok*			
AQ/Noise	Please see separate Word file with specific requests for Air Quality, Greenhouse Gas Emissions, and Noise (AQ-GHG-Noise). Please complete the file for each project (one set of complete answers for each project please).	Applicant	Word document completed and provided	*ok*			
Hazards	Please see separate Word file for specific "User Questionnaire" (Completed for Site 3. Sites 1 & 2 are outstanding.)	Applicant	Word document completed and provided	*We don't have this*			
Hazards	Please see separate Word file for specific "Owner Questionnaire" (Completed for Site 3. Sites 1 & 2 are outstanding)	Applicant	Word document completed and provided	*We don't have this*			
Hydro/WQ	Total acres of ground disturbance	Applicant					
	Net change in impervious surface area	Applicant					
	Depth to groundwater	Applicant					
Noise	Please confirm that **no** pile driving would occur for any of the projects; if it would occur please describe	Applicant	Confirmed, no pile driving	*ok*			
Transportation/Traffic							
VMT and LOS	Cumulative projects - Land use (above and beyond the General Plan); and transportation (in particular Etiwanda grade separation)	City					
LOS	Confirmation of scoping approach (re: study intersections, scenarios) w/ the City (Fehr & Peers will reach out to schedule a call to discuss)	City					
LOS	Signal timings at all study intersections (Fehr & Peers will reach out to request)	City					
LOS	Traffic Counts (aiming for mid-sept; Fehr & Peers to follow to schedule specific date and time)	F&P					
Turning Movements	Confirm what movements are allowed at access points and what access control should be assumed (most of these we can infer from the site plan, but will be helpful to confirm)	Applicant/City	Etiwanda/Napa intersection: all turn movements Etiwanda new north access: right in/out only				
Traffic Noise Data	•ADT segment volumes for all roadways in the traffic study area in **EXCEL**: oExisting oExisting + Project oCumulative oCumulative + Project;	F&P					
	Figure showing segments or study intersections;	F&P					
	Vehicle mix [auto, medium-duty (2 axle, 6 tire), heavy-duty (3+ axle)] on the segments for existing and future timeframes	F&P					
	Daytime (7:00 a.m. – 7:00 p.m.)/Evening (7:00 p.m. – 10:00 p.m.)/Nighttime (10:00 p.m. – 7:00 a.m.) percentage splits on the segments for existing timeframes	F&P					
Utilities	electrical use/demand - existing and proposed	Applicant	Information to follow	*What is the timing?*			
	wastewater use/demand - existing and proposed	Applicant	Information to follow	*What is the timing?*			
	natural gas use/demand - existing and proposed	Applicant	Information to follow	*What is the timing?*			
	solid waste generation - existing and proposed	Applicant	Information to follow	*What is the timing?*			
	Will Serve Letters/Service Request letters from utilities	Applicant	Letter to be provided by applicant	*What is the timing?*			
	Water Supply Assessment	Applicant	In progress, to be provided by applicant	*What is the timing?*			
	Type and location of existing wet and dry utilities on the project site	Applicant	Storm drain, sewer, domestic water, electrical power, & telecommunication.	*Need details, including capacity and location. Provide plan sheets if available.*			

SOUTHERN CALIFORNIA EDISON®

An *EDISON INTERNATIONAL*® Company

October 20, 2023
Via EnviroStor/Email
JRJ20231020-1

Mr. Steven Rounds, P.E.
Hazardous Substances Engineer
Department of Toxic Substances Control
9211 Oakdale Street
Chatsworth, California 91311

SUBJECT: RCRA Facility Investigation Report
Former SCE Etiwanda Generating Station (Site Code: 400437)
8996 Etiwanda Avenue, Rancho Cucamonga, California 91739

Dear Mr. Rounds:

A bookmarked digital copy of the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Report for the former SCE Etiwanda Generating Station has been uploaded to EnviroStor for review. This RFI Report has been updated in response to comments received from DTSC on September 6, 2023 (comments and SCE responses are attached to this letter).

If you have any questions regarding this submittal, please contact me at 626.756.6403.

Respectfully yours,

John R. Johnsen
Senior Environmental Science Advisor
Operational Services, Environmental
Services Department

Distribution List:

Steve Rounds - DTSC Chatsworth Office (uploaded to EnviroStor)
Dina Kourda - DTSC Cypress Office (uploaded to EnviroStor)
C.Y. Jeng – DTSC Cypress Office (uploaded to EnviroStor)
Andy Cano – DTSC Cypress Office (uploaded to EnviroStor)
Mauricio Escobar – Roux Inc. (download link sent via email)
Matthew Nelson – Roux Inc. (download link sent via email)
Mark Foley – Ares Management LLC (download link sent via email)
Jessica Hinchliffe – Ares Management LLC (download link sent via email)
Lee Paprocki – Northgate (electronic copy)
Rob Lovdahl – Northgate (electronic copy)
John Johnsen – SCE (uploaded to SCE SharePoint)

TABULAR SUMMARY OF RESPONSES TO DTSC COMMENTS ON THE
RCRA FACILITY INVESTIGATION (RFI) REPORT
FORMER SCE ETIWANDA GENERATING STATION, RANCHO CUCAMONGA, CALIFORNIA

RCRA Facility Investigation (RFI) Report, Former SCE Etiwanda Generating Station was prepared by Northgate Environmental Management, Inc., dated May 31, 2023	
DTSC Comments from Dina Kourda, Geological Services Branch (GSB) dated July 11, 2023	**Northgate/SCE Response**
1. **Arsenic Ambient Screening Level**: For consistency throughout the text (e.g., Section 4.14.3 on page 38, Section 4.17.3 on page 42, Section 4.24.1 on page 50, Section 4.27.1, on page 53, Section 4.35.1 on page 56, Section 4.36.3 on page 58, etc.), please refer to 12 mg/kg for arsenic as the "Southern California Ambient Arsenic Screening Level," as documented on the in-text table in Section 4.39 on page 60, the notes on Table 5, and in accordance with the DTSC Human Health Risk Assessment (HHRA) Note 11.	The wording in the referenced sections has been updated to identify 12 mg/kg as the Southern California ambient arsenic screening level.

TABULAR SUMMARY OF RESPONSES TO DTSC COMMENTS ON THE RCRA FACILITY INVESTIGATION (RFI) REPORT FORMER SCE ETIWANDA GENERATING STATION, RANCHO CUCAMONGA, CALIFORNIA

RCRA Facility Investigation (RFI) Report, Former SCE Etiwanda Generating Station was prepared by Northgate Environmental Management, Inc., dated May 31, 2023	
DTSC Comments from Chawn Y. (CY) Jeng Human and Ecological Risk Office (HERO) dated August 4, 2023	**Northgate/SCE Response**
1. **Section 1.2.4 Regulatory Screening Comparison Standards**: HERO requests replacing the terms "screening comparison standards" and "screening standards" with "screening levels" to avoid confusion. Specifically, the guidance documents on the screening levels listed in this section are not promulgated by regulatory agencies and thus should not be referred to as regulatory standards.	Section 1.2.4 now includes the header, "Regulatory Screening Levels for Comparison." Text within this section has been updated to refer to the comparison of RFI data against "screening levels" as opposed to "screening standards."
2. **Section 4.3 (AOI 3) & 4.4 (AOI 4)**: The following statement, "*The BCCB was demolished in 2022 as part of Site demolition activities*" does not match AOI 3 (South Retention Basin) and AOI 4 (North Retention Basin) described in these sections. Please rectify these discrepancies.	The text in the referenced sections has been corrected to refer to the appropriate retention basins under investigation at each AOI.
3. **Section 4.38 AOI 38 – Flumes**: HERO recommends presenting a figure to depict thallium concentrations in soil samples collected at F3-1 and its vicinity to show that the lateral and vertical extent of potential thallium impact is limited and not a "hot spot" in support of using the 95% UCL concentration for thallium in the HHSE.	Figure 15 has been added to the revised RFI Report and includes thallium concentrations in soil samples collected within and adjacent to Flume 3. A photograph has also been added as an inset in Figure 15 which depicts typical concrete flume construction at the Etiwanda Generating Station to support the lines of evidence provided in the RFI Report text for the isolated thallium concentration reported below the flume bottom.
4. **Section 4.39 Overall Summary of RFI Soil Results**: HERO recommends identifying arsenic as a chemical of potential concern (COPC) at AOI 10 in the summary table, based on the pre-excavation soil sampling results of the cooling towers for Units 1 and 2 (as noted in Section 2.4.4.3, the soil with arsenic concentrations exceeding the Southern California ambient arsenic screening level was subsequently removed). The sampling was conducted by Northgate on behalf of SCE after the RFI Work Plan was finalized in July 2021, and thus should be included in the summary table for completeness.	Delineation and removal activities involving arsenic-affected soil above the Southern California ambient arsenic screening level at the Units 1 and 2 cooling towers (AOI 10) are now called out in the summary table in Section 4.39 for completeness.

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DTSC Comments from Chawn Y. (CY) Jeng Human and Ecological Risk Office (HERO) dated August 4, 2023	**Northgate/SCE Response**
5. **Section 4.40 Overall Summary of RFI Soil Vapor Results**: (a) HERO recommends listing relevant information on the proposed building (e.g., building size/dimension, ventilation system, layout/usage, etc.) under "Site-Specific Factors for Consideration" for completeness. (b) HERO recommends preparing a summary table listing the analytes exceeding the soil vapor screening levels and associated AOCs, and noting additional rounds of soil vapor assessment conducted during the RFI, if applicable.	(a) Available building information that has been shared with SCE by the current Site owner and developer has been added to the bullet list of "Site-Specific Factors for Consideration." (b) A table has been added within the text of Section 4.40 which summarizes the analytes reported above one or more screening levels for the individual AOIs targeted during the RFI. A statement has also been added within Section 4.40 related to the timeframe in which RFI soil vapor sampling was conducted and the soil vapor resampling event which took place in April 2022 (the reader is also directed to Section 5.2.5 for additional information and findings related to the soil vapor temporal variation assessment conducted during the RFI).
6. **Section 5.2.5 Soil Vapor Temporal Variation Assessment**: HERO recommends revising the following statement, "…Figures 11A through 11E were updated to reflect the maximum concentration reported to date (most conservative approach), which resulted in very little change to the overall soil vapor concentration contours." by describing when the original contours were prepared and with which data set(s) and listing a reference containing this information for comparison.	Section 5.2.5 has been updated to clarify that the majority of the RFI soil vapor data were collected in August and September 2021 with some additional delineation sampling conducted between October 2021 and January 2022. An email with supporting table and soil vapor concentration maps was submitted to the DTSC team on May 2, 2022 to demonstrate that temporal variation in soil vapor concentrations was low at the Site (based on results of a soil vapor resampling event conducted in April 2022). A copy of this email and the attached table and figures has been added to Appendix B of the RFI Report. The text in Section 5.2.5 has been updated to reference this email and figures in support of the quoted statement identified in this comment.
7. **Section 6.1 Human Health Risk Summary**: Please update the health risk results and associated discussions in this section, as appropriate, to reflect the changes recommended for the HHSE discussed below *("below" refers to HERO Comment Nos. 10 through 18 related to the HHSE – response to these comments are being prepared separately by the HHSE author, Roux Associates, Inc.).*	Section 6.1 has been updated to reflect changes made to the HHSE.

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DTSC Comments from Chawn Y. (CY) Jeng Human and Ecological Risk Office (HERO) dated August 4, 2023	**Northgate/SCE Response**
8. **Section 7.1 RFI Conclusions**: HERO recommends deleting the following sentence, "Furthermore, the hypothetical commercial/industrial exposure scenario…hazard quotient of 1 (Roux, 2023b)" (2nd bullet under "Summary of RFI soil results"). The current discussion is potentially misleading as it does not address the construction worker scenario and associated health risk (note that the findings of the HHSE are summarized in Sections 6.1 and 7.2 of the RFI Report).	The referenced sentence has been deleted from Section 7.1 of the revised RFI Report.
9. **Appendix B Supporting Documents**: HERO notes that a portion (pages 323-349 in the pdf file) of the Revised Soil Removal Completion Report at Cooling Towers for Units 1 and 2 (SCE/Northgate; January 6, 2022) is not legible.	Thank you for bringing this issue to our attention. We believe the illegible text is related to a software error when the final PDF document was compiled which affected some text in Appendix B and text in the Photographic Log in Appendix C. Affected portions of the RFI Report with illegible text have been remedied.

RCRA FACILITY INVESTIGATION REPORT

Former SCE Etiwanda Generating Station
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May 31, 2023 (Updated October 20, 2023)

Project No. 2119.75.09/2169.09.02

RCRA FACILITY INVESTIGATION REPORT

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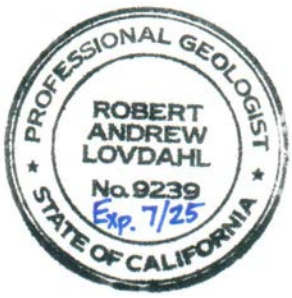
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LIST OF ABBREVIATIONS AND ACRONYMS

1,1-DCA	1,1-dichloroethane
1,1-DFA	1,1-difluroethane
95% UCL	95% upper confidence limit
mg/kg	milligrams per kilogram
µg/L	microgram per liter
µg/kg	microgram per kilogram
µg/m^3	microgram per cubic meter

AF	attenuation factor
AOI	area of interest
Ardent	Ardent Environmental Group, Inc.
AST	aboveground storage tank
bgs	below ground surface
BCCB	Boiler Chemical Cleaning Basin
BDCM	bromodichloromethane
BNSF	Burlington Northern Santa Fe
BTC III	BTC III Etiwanda Commerce Center LP
BTEX	benzene, toluene, ethylbenzene, and xylenes
CCR	California Code of Regulations
COPC	contaminants of potential concern
COPEC	chemicals of potential ecological concern
DBCP	1,2-Dibromo-3-chloropropane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
DGA	Data Gap Analysis
DTSC	Department of Toxic Substances Control
DTSC-SL	DTSC-modified screening level
DWR	Department of Water Resources
EPC	exposure point concentration
ESL	Environmental Screening Levels
EU	exposure unit
Eurofins	Eurofins Calscience, Inc.
FIC	Facility-Initiated Corrective Action
GPR	ground-penetrating radar
GPRS	Ground Penetrating Radar Systems, LLC.
GPS	global positioning system
HHSE	Human Health Screening Evaluation
HPLC	high-performance liquid chromatography
HVAC	heating, ventilation, and air conditioning
IEUA	Inland Empire Utility Agency
Jones	Jones Environmental, Inc.
LARWQCB	Los Angeles Regional Water Quality Control Board
MCLs	maximum contaminant levels

MDL	Method Detection Limit
MS	matrix spike
MSD	matrix spike duplicate
MTBE	methyl tertiary butyl ether
NDMA	n-nitrosodimethylamine
NFA	no further action
Northgate	Northgate Environmental Management, Inc.
OCPs	organochlorine pesticides
PAHs	polycyclic aromatic hydrocarbons
Path Forward	Path Forward Partners, Inc.
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
PEA	Preliminary Endangerment Assessment
PVC	polyvinyl chloride
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RL	Reporting Limit
RO	reverse osmosis
Roux	Roux Associates, Inc.
RPD	Relative Percent Difference
RSL	Regional Screening Level
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
Site	Etiwanda Generating Station
SICP	Self-Implementing PCB Cleanup and Disposal Notification Plan
SLEERA	Scoping Level Environmental and Ecological Risk Assessment
SMP	Soil Management Plan
SSL	soil screening levels
SVOC	semi volatile organic compound
SVP	soil vapor probes
Tech Memo	Technical Memorandum
Tetra Tech	Tetra Tech, Inc.
TPH	total petroleum hydrocarbons
TPH-cc	TPH-carbon chain
TPH-d	TPH as diesel
TPH-g	TPH as gasoline
TPH-mo	TPH as motor oil
TSCA	Toxic Substances Control Act
URS	URS Corporation
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound

1.0 INTRODUCTION

1.1 Purpose

On behalf of Southern California Edison (SCE), this report was prepared by Northgate Environmental Management, Inc. (Northgate) to document the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) conducted at the former SCE Etiwanda Generating Station. Field work began in August 2021 and was completed in December 2022. The former SCE Etiwanda Generating Station is located at 8996 Etiwanda Avenue, Rancho Cucamonga, California 91739 (Site). Refer to Figures 1 and 2 for Site location and general configuration.

Investigative work was conducted in accordance with the Department of Toxic Substances Control (DTSC)-approved *Revised Final RCRA Facility Investigation Work Plan* dated July 20, 2021 (Northgate, 2021c; DTSC, 2021c). For ease of reference within this report, the *Revised Final RCRA Facility Investigation Work Plan* will be referred to as the RFI Work Plan. This RFI Report has been updated in response to comments received from DTSC on September 6, 2023 and replaces the previous version of the RFI Report dated May 31, 2023 (DTSC, 2023).

1.2 RFI Work Plan Objective and Background

1.2.1 Objective

The objective of the RFI is to provide environmental data as described in the RFI Work Plan that are representative of subsurface conditions at the Site to be utilized to determine the nature and extent of potential impacts at the Etiwanda Generating Station and assess the need for potential remedial actions.

1.2.2 RFI Work Plan Background

Thirty-eight (38) operational areas/areas of interest (AOIs) have been identified; several of the AOIs refer to multiple locations at the Site. During the initial Site walk on October 31, 2019, conducted by Mr. Jose Marcos of the DTSC, Mr. John Johnsen of SCE, Mr. Steve Williams of ERM, Mr. Sammie Robertson of GenOn, Mr. George Piantka of NRG, and Mr. Frank Hagar of Northgate, 23 AOIs were identified and discussed. Based on the initial Site walk and subsequent discussion, one AOI (guard shack) was removed and 16 additional AOIs were identified (AOIs 1, 22-24, and 27-38). These AOIs are listed in the table below along with the proposed investigation as part of the RFI Work Plan.

OPERATIONAL AREAS OF INTEREST AND PROPOSED SAMPLING PER RFI WORK PLAN		
ID	**Operational Area/Area of Interest (AOI)**	**Proposed Investigation**
1	Distillate Tank for Unit 5 Peaker	Soil and soil vapor
2	Former Boiler Chemical Cleaning Basin	No investigation required
3	South Retention Basin (Closed)	No investigation required
4	North Retention Basin (Closed)	No investigation required
5	Fueling Station	Soil and soil vapor
6	Unit 5 (Peaker)	Soil and soil vapor
7	Administration Building	No investigation required
8	Decommissioned RO Equip and Basin	No investigation required
9	Laydown Area	No investigation required
10	Units 1 and 2 Cooling Towers	No investigation required
11	Chadwick Channel	Soil
12	Units 4 Cooling Towers and Cooling Tower Transformer	No investigation required
13	Generating Units 3 & 4	No investigation required
14	Hazardous Waste Accumulation Area	Soil and soil vapor
15	Generating Units 1 & 2	Soil vapor
16	Warehouse	Soil and soil vapor
17	Maintenance Shop	Soil and soil vapor
18	Welding Shop	Soil and soil vapor
19	Unit 3 Cooling Towers	No investigation required
20	Capped Natural Gas Easement	No investigation required
21	Cooling Tower Makeup Water Pond	Soil and soil vapor
22	Construction and Operations Waste	No investigation required
23	Auxiliary Transformer	No investigation required
24	Sulfuric Acid Tank	Soil
25	Units 3 & 4 Transformers	Soil
26	Units 1 & 2 Transformers	Soil
27	Acid Caustic Tank Area	Soil
28	Well Water Storage Tank	No investigation required
29	Distilled Water Tanks	No investigation required
30	Cooling Water Tank	No investigation required
31	Fire House (foam)	No investigation required
32	Fire Water Pumps	No investigation required
33	Sludge Drainage Area	No investigation required
34	Northern Fill	No investigation required
35	Sodium Hypochlorite Tank	Soil
36	Former Hazardous Waste Area	Soil and soil vapor
37	Septic Pits	Soil and soil vapor
38	Flumes	No investigation required

For ease of reference to historical documents, the AOI numbering system remains consistent throughout this report.

1.2.3 Sampling Conducted During RFI Implementation

Soil samples were collected and analyzed for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, pH, and polychlorinated biphenyls (PCBs). Soil vapor samples were analyzed for VOCs. One (1) grab groundwater sample was collected and analyzed for VOCs as directed by the DTSC. Refer to Table 1 for sampling and analysis details with deviations from the approved RFI Work Plan and conditional sampling/analyses identified in red. Further details pertaining to implementation of the RFI sampling are included in Section 3.0.

1.2.4 Regulatory Screening Levels for Comparison

The analytical data from the RFI samplings were compared to generic, risk-based screening levels for commercial/industrial use, as discussed in the RFI Work Plan. Generic screening levels are not intended for use as cleanup levels; however, additional evaluation could be warranted to determine whether concentrations exceeding screening levels pose significant health risks. A listing of the published screening levels used in comparison tables is included below:

- DTSC-modified Screening Levels (DTSC-SLs), Human and Ecological Risk Office (HERO) Note Number 3 (DTSC, 2022a).
- Regional Screening Levels (RSLs) from the United States Environmental Protection Agency (USEPA; USEPA, 2023).
- TPH soil screening levels (SSLs) from the Los Angeles Regional Water Quality Control Board (LARWQCB, May 1996) for protection of groundwater. The groundwater below the Site is greater than 150 feet below ground surface (bgs); therefore, the TPH screening levels are 1,000 milligrams per kilogram [mg/kg] for C_4-C_{12} (referred to as TPH-gasoline or TPH-g), 10,000 mg/kg for C_{13}-C_{22} (referred to as TPH-diesel or TPH-d) and 50,000 mg/kg for C_{23}-C_{32} (referred to as TPH-motor oil or TPH-mo). The LARWQCB SSLs will be used for evaluating deep soil data (greater than 10 feet bgs) for groundwater protection.
- TPH Environmental Screening Levels (ESLs) from the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, revised January 2019), as allowed in the DTSC Preliminary Endangerment Assessment (PEA) Manual (DTSC, 2015b). The SFBRWQCB ESLs will be used for evaluating shallow soil (less than or equal to 10 feet bgs) for direct human exposure pathways to TPH-g, TPH-d, and TPH-mo. It should be

noted that the RFI Work Plan discussed the potential comparison of TPH in soil to USEPA RSLs and/or DTSC-SLs for aromatic low (C_6-C_8), medium (C_9-C_{16}), and high (C_{17}-C_{32}) ranges for samples analyzed by aromatic hydrocarbon fractions. TPH results for RFI soil samples were also reported by the laboratory in accordance with the above aromatic ranges. At DTSC's direction (during a project meeting held on January 24, 2023), RFI TPH soil data is not compared to USEPA RSLs or DTSC-SLs as DTSC is still reviewing significant changes to TPH aromatic carbon ranges, risk-based assumptions, and screening levels published by USEPA in November 2022.

- The arsenic background concentrations in soil in Southern California often exceed the DTSC-SL for commercial/industrial land use. A DTSC study concluded that based on the analysis of regional data, the upper bound for naturally occurring plus anthropogenic arsenic is 12 milligram per kilogram (mg/kg; Chernoff, Bosan, and Oudiz, 2008). This value for arsenic of 12 mg/kg has been adopted as the "Southern California ambient arsenic screening level" by the DTSC (DTSC, 2020).
- Soil vapor sample test results for VOCs were compared to USEPA RSLs and DTSC-SLs for commercial/industrial land use. The RSLs and DTSC-SLs have been developed for indoor air concentrations; therefore, RSLs and DTSC-SLs for soil vapor are modified using a default attenuation factor (AF). The default AFs of 0.001 for current commercial and 0.0005 for future commercial were derived per the DTSC *Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (Vapor Intrusion Guidance; DTSC, 2011a). The most conservative default AF of 0.03 was also utilized to develop soil vapor screening levels for comparison (DTSC and CWRCB, 2023). Site specific factors and multiple lines of evidence are presented in Section 4.40 to assist stakeholders in navigating the uncertainties associated with vapor intrusion risk management decisions. Soil vapor probes (SVPs) were installed and sampled in accordance with the *Advisory – Active Soil Gas Investigations* (DTSC, 2015a).
- Groundwater sample test results for VOCs were compared to current California Maximum Contaminant Levels (MCLs) for drinking water.

As discussed above, the RFI data are compared to commercial/industrial screening criteria for decision-making purposes.

1.3 Document Organization

The document is organized as follows:

- Section 1: Introduction
- Section 2: Facility Background
- Section 3: RFI Implementation Details

- Section 4: Analytical Results and Screening Comparisons
- Section 5: Quality Assurance/Quality Control (QA/QC)
- Section 6: Human Health and Ecological Risk Assessment Summary
- Section 7: Conclusions and Recommendations
- Section 8: References
- Tables
- Figures
- Appendices
    - A – Tables from the RFI Work Plan
    - B – Supporting Documents
    - C – Photographic Log
    - D – Permits
    - E – Soil Boring Logs and Soil Vapor Probe Construction Details
    - F – Lab-Grade Water Specifications and Analytical Results
    - G – Laboratory Analytical Reports and Chain of Custody Documentation
    - H – Scoping Level Environmental and Ecological Risk Assessment

2.0 FACILITY BACKGROUND

The Site is located at 8996 Etiwanda Avenue, Rancho Cucamonga, California, approximately one mile east of Interstate 15 and 1.5 miles north of I-10 (Figure 1). It encompasses approximately 60 acres and is bordered by Burlington Northern Santa Fe Railroad (BNSF) tracks to the north, Etiwanda Avenue to the east, the SCE-owned switchyard (Parcels 022928382 and 022928381) to the southeast, and the Inland Empire Utility Agency parcel (IEUA, Parcel 133731) to the southwest (Figure 2). Farther to the southwest is the Rancho Vista Substation (Parcels 022928375 and 022928380), which was constructed in 2009 (Figure 2).

The Chadwick Channel originates north of the Site, flowing through upstream industrial areas, extending beneath the northern adjoining railroad tracks prior to entering the Site. The Chadwick Channel transects the Site from the north to the south (Figure 2). This unvegetated channel is constructed of native soils. The channel terminates at a retention/energy dissipation basin north of 6th Avenue before entering the regional municipality storm collection system. Through the generating station, the channel is unvegetated and approximately 6 feet deep and 60 feet wide at the channel bottom (Jamison and Associates 2011).

2.1 Regional and Local Geology

The Site is located within the north-central portion of the Chino Basin on a broad, gently undulating alluvial plain (Hamilton, 2001). This plain is comprised of coalescing alluvial fans, which have expanded southward from the San Gabriel Mountains and the Jurupa Mountains. Surface deposits at the Site have been mapped as Pleistocene alluvial deposits of gravel, sand, silt, and clay (Hamilton, 2001).

Site borehole logs indicate the upper 450 feet of sediments beneath the Site consists of layered sands and clays with localized gravel. Approximately five to six clay layers were encountered that ranged in thickness from five to 40 feet and collectively were over 125 feet thick (Jamison and Associates, 2011). The clay demonstrated plastic characteristics. Two distinctive, red clay layers were encountered below a depth of 385 feet. The red clay was dry and cemented (Jamison and Associates, 2011).

2.2 Regional and Local Hydrogeology

The Site is situated in the northern part of the Upper Santa Ana Valley Groundwater Basin in the Chino Subbasin. The Subbasin is bounded on the north by the San Gabriel

Mountains and the Cucamonga fault, on east by the Rialto-Colton fault, on the southeast by the Jurupa Mountains, on the south by the Puente Hills and the Chino fault, and on the northwest by the San Jose fault (DWR, 2006). Groundwater is present in the alluvial deposits of the Subbasin. The Pleistocene alluvium is composed of interfingering finer, alluvial-fan deposits and coarser, fluvial deposits (DWR, 2006).

Perched groundwater was not encountered while advancing wells EW-1 through EW-6 (Figure 3) and the depth to first groundwater was approximately 420 feet bgs. Groundwater flow was to the southwest. Well EW-4, installed in February 2002, penetrated a sand aquifer with confined conditions between the two red clay layers described in the previous section. Groundwater was noted flowing from the drill stem at well EW-4 while adding drill rods after the red clay/sand interface was crossed. The groundwater elevation measured in well EW-4 was over thirty feet higher than the groundwater elevation for the other monitoring wells. The boreholes for the other five monitoring wells were completed at a greater depth than well EW-4 and penetrated a deeper, second sand aquifer with unconfined conditions (Jamison and Associates, 2011).

2.3 Site Operations and History

Prior to SCE ownership and use as a power generation facility, the Site and surrounding area was used for agricultural purposes from at least 1938 to approximately 1951. Based on the 2008 Interim Guidance for Sampling Agricultural Properties, DTSC found that at sites where agricultural use had ceased prior to 1950, organochlorine pesticides (OCPs) were not identified as chemicals of potential concern and OCPs did not need to be evaluated (DTSC, 2008). Given that agricultural usage at the Site ended in early 1951 and an additional 13 years has passed since the DTSC guidance was updated, it is even less likely that OCPs would be detected at the Site.

However, in 1997, OCPs were evaluated as part of a Phase II that SCE conducted at the Site and surrounding area (Geraghty & Miller, 1997). Soil samples were collected south of the Site, immediately south of the switchyard in a relatively undisturbed area (with similar crops to the Site) and three soil samples were collected at 0.5 and 3 feet bgs (CS-1-0.5, CS-2-0.5, and CS-2-3). Dichlorodiphenyldichloroethylene (DDE) and dichlorodiphenyltrichloroethane (DDT) were detected in one sample at estimated ("J-flag") concentrations of 0.065 and 0.135 mg/kg, respectively, which are an order of magnitude less than commercial screening levels. The laboratory reporting limits (RLs) for the remaining OCPs were less than the commercial screening levels. Three additional soil samples were collected by a utility pole on SCE property located southwest of the Site and analyzed for OCPs. OCPs were not detected above the

laboratory RLs and the laboratory RLs were 1 to 2 orders of magnitude less than the commercial screening levels. The tabulated data and a figure of the sampling locations were presented in Appendix A of the approved RFI Work Plan.

In October 2019, Ardent Environmental Group, Inc. (Ardent) collected four composite soil samples by the railroad spur at 0.5 feet bgs. DDE was the only pesticide detected and it was detected at a maximum concentration of 21 micrograms per kilogram (µg/kg), which is two orders of magnitude less than the commercial screening level. The remaining laboratory RLs were 1 to 2 orders of magnitude less than the commercial screening levels (Ardent report presented in Appendix B of the approved RFI Work Plan).

Based on previous OCP sampling in 1997 and 2019, that indicated non-detect to very low concentrations of OCPs in the area, with maximum concentrations one to two orders of magnitude less than commercial screening levels, and 70 years since the Site has been used for agricultural uses, sampling for OCPs is not warranted and further sampling for OCPs was not conducted as part of this RFI.

2.3.1 Etiwanda Generating Station History

Initial construction at the Site began in 1951. Units 1 and 2 were in full operation in 1953. Units 3 and 4 were built in 1963. All four units were originally oil-fired conventional boilers and were converted to natural gas fired units. Boiler cooling capacity used water from three onsite, deep, high-capacity groundwater wells (properly abandoned in 2019/2020). Cooling water was circulated through the plants and then to cooling towers located on the north side of the Site (Figure 4). In 1969, a 126,000-KW peaker unit (Unit 5) was added to generate electricity during periods of high demand (Jamison and Associates, 2011).

The operations at the Site have historically included two open, aboveground, wastewater retention basins (North Basin and South Basin), a Boiler Chemical Cleaning Basin (BCCB), four power blocks (Units 1 through 4), cooling towers, a peaker unit, and associated appurtenances (Figure 4). In 1979, the BCCB was constructed. Units 1 and 2 were decommissioned in 2003 and have been inactive since then. The Unit 5 Peaker reportedly has not been used since 1998. Units 3 and 4 discontinued operations by June 2018. The Site has been vacant since then with ongoing targeted demolition activities occurring sporadically since then.

In 1995, in response to a Final Judgment pursuant to a Stipulation from the Superior Court of California, Los Angeles County, Number BC 121219, SCE signed an agreement with

DTSC to clean close the surface impoundments (retention basins), where SCE had stored hazardous wastes, at 11 generating stations in Southern California. The Site is one of the 11 stations included in the Final Judgement. This liability for the Site was reported to result from SCE's past practice of temporarily storing boiler chemical cleaning wastes in the retention basins in the late 1980s, which was discontinued in the North and South Basins and BCCB after that time. Historically, the three (3) basins were utilized for the temporary storage (less than 30 days) of acidic cleaning solutions resulting from the removal of corrosion and mineral deposits from the boiler tubes. This waste remained in the basins prior to removal and offsite treatment. SCE agreed to close the retention basins and associated sumps and appurtenances according to Title 22, California Code of Regulations, Chapter 15. Further information regarding the investigation and subsequent closure of the retention basins at the Site is provided in Sections 2.4.1 and 2.4.2, respectively.

SCE operated the generating station from 1953 to 1998. The Site was sold to Reliant Energy Inc. in 1998, but SCE retained responsibility under the contract of sale for environmental liability associated with past operation of the retention basins during the period of SCE's ownership (discussed above). Ownership transferred to NRG in July 2009 when they purchased Reliant Energy. In 2012, NRG merged with GenOn. Through several business changes including a restructuring of GenOn in 2018, ownership of the Site was transferred to GenOn. In December 2020, the Site was sold to BTC III Etiwanda Commerce Center LP (BTC III) for redevelopment as a commercial logistics center. BTC III and its contractors have been engaged in the demolition of the Site features since July 2021 to facilitate grading and construction of the future commercial buildings (currently up to four [4] commercial buildings and associated paved parking areas for vehicles and truck trailers are anticipated).

2.3.2 Stakeholders and Responsibilities

As discussed above, SCE sold the Site in 1998 but retained liability associated with past operation of the retention basins (per 1995 Final Judgment from the Supreme Court of California). The retention basins were investigated and received closure from the DTSC in 2011 (DTSC, 2011b), however, SCE did retain responsibility for implementing a Site-wide RFI to investigate subsurface environmental conditions at the Site.

When SCE sold the property in 1998, the original Purchase and Sales Agreement contained a clause that SCE is not responsible for non-retention basin contaminants identified 15 years or more after the sale of the property. The 15-year time period for extended

environmental liability closed in 2013, and this clause carries forward in newer Purchase and Sales Agreements.

As of December 2020, the Site owner is recognized as BTC III. According to the Facility-Initiated Corrective Action (FICA) Agreement between BTC III and the DTSC, the sole responsibility of SCE is to prepare and submit an RFI Report to the DTSC. Industrial redevelopment activities by BTC III will follow once the RFI Report is finalized and approved by the DTSC. The scope of work included as Exhibit B of the FICA Agreement indicates that BTC III is responsible for preparation of a Soil Management Plan (SMP), a Human Health Screening Evaluation (HHSE), conducting limited excavation and offsite disposal of arsenic impacted soils which were identified during previous Site investigations, and take part in public participation activities with the DTSC as part of the RCRA closure process for the Site (DTSC, 2021).

Other groups and organizations that have an interest in the outcome of the RFI and subsequent RCRA closure process include the State of California, the local community, and potentially public interest groups.

2.4 Previous Pertinent Environmental Investigations

Information regarding pertinent previous investigations and reports associated with the Site are summarized below. Some of these investigations are associated with SCE retention basin investigations. Pertinent reports are summarized below and copies of selected documents for the Site were included in Appendix B of the RFI Work Plan.

2.4.1 Water Quality Monitoring Programs (1996 to 2011)

In 1996, SCE implemented a *Water Quality Monitoring Program* in response to a Final Judgment pursuant to Stipulation, handed down by the Superior Court of California, Los Angeles County, Number BC 121219 on February 1, 1995 (previously discussed in Section 2.3.1).

The purpose of the *Water Quality Monitoring Program* was to demonstrate if environmental contamination had resulted from the operation of the wastewater retention basins at the Site. Because of the basin size and the minor usage, it was proposed that a soil and soil vapor sampling program initially be performed beneath the retention basin liners (Hamilton, 2012). If the soils directly beneath the retention basins did not exhibit abnormal pH or elevated metal concentrations, then a groundwater monitoring program would not be necessary (Hamilton, 2012). Beginning in 1996, three soil and two soil vapor investigations were conducted beneath

the retention basins to a maximum depth of 100 feet bgs. A total of 173 soil samples and 50 soil vapor samples were collected during the investigations (Hamilton, 2005 and Jamison and Associates, 2011). Based on the investigation results of elevated metal concentrations, pH values, and the presence of VOCs in soil, it was concluded that leakage had occurred beneath the retention basins (Hamilton, 2012).

Between January 2002 and April 2002, four groundwater monitoring wells (EW-1 through EW-4) were installed at the Site to measure groundwater gradients and collect groundwater quality samples both upgradient and downgradient of the retention basins (Figure 3). In 2003, two additional groundwater monitoring wells (EW-5 and EW-6) were added to the monitoring well network (Figure 3). Groundwater sampling and analysis was conducted at the Site from 2002 and concluded in 2011 after DTSC closure of the retention basins. Groundwater sample results from the monitoring wells were used in a statistical analysis to identify contaminants of potential concern (COPCs). Based on the results, it was concluded that there were no statistically significantly elevated chemicals in groundwater in the downgradient wells (Jamison and Associates, 2011). Therefore, there were no COPCs for groundwater at the retention basin site (Jamison and Associates, 2011). A copy of the Final Annual 2011 Groundwater Monitoring Report was included in Appendix B of the RFI Work Plan.

2.4.2 Final Closure Demonstration Report (2011) for the Retention Basins

The *Final Closure Demonstration Report* prepared by Jamison and Associates identified 15 COPCs in soil beneath the basin retention site that were carried forward into a Human Health and Environmental Risk Assessment. The seven (7) inorganic COPCs identified in soil included antimony, arsenic, mercury, molybdenum, nickel, silver, and thallium. The eight (8) organic COPCs identified in soil included chloroform, chloromethane, styrene, tetrachloroethene, toluene, vinyl chloride, butyl benzyl phthalate, and dioxin/furans. No COPCs were identified in soil vapor or groundwater (Jamison and Associates, 2011).

The *Final Closure Demonstration Report* indicated that based on the results of the human health and ecological risk assessments, the retention basin site met the closure standards for unrestricted land use. The results indicated that COPCs in soil at the retention basin site were unlikely to represent future human health or ecological impacts of concern. Therefore, the retention basin site met all closure standards for unrestricted land use and no further remedy or land use covenant was required. On December 29, 2011, DTSC approved the *Final Closure Demonstration Report* (DTSC, 2011b), which is also included in Appendix B of the RFI Work Plan.

2.4.3 Recent Pre-RFI Site Investigations (2019 through 2020)

The legacy information was presented in the RFI Work Plan to provide information regarding previous investigations of interest and target data gaps to be addressed as part of the RFI. Figure 5A presents a comprehensive sampling map of all the recent sampling locations that were included in the four recent (dating back to 2019 at the earliest) subsurface investigations (herein collectively referred to as "Pre-RFI" investigations) alongside the RFI sampling conducted in 2021 and 2022 in accordance with the RFI Work Plan and any subsequent Tech Memo Work Plans. Figures 5B through 5F present more detailed maps of the Pre-RFI sampling locations at the various AOIs. The four Pre-RFI subsurface investigations are described in detail in the Data Gap Analysis (DGA) Report (Northgate, 2021b).

The recent Pre-RFI subsurface investigations are summarized below. The investigations are also described in detail per individual AOIs in Section 4.

2.4.3.1 Site Investigation (2019)

Between October 7 and 17, 2019, ERM (on behalf of previous Site owner GenOn) oversaw a site investigation conducted by Ardent. The site investigation was conducted for due diligence purposes and included sampling at the following locations of soil and/or soil vapor:

- Cooling Towers 1, 2, 3, and 4 (AOIs 10, 12, and 19);
- The Chadwick Channel (AOI 11);
- the Railroad Spur;
- Landfills I and II (AOIs 22and 34);
- The Sludge Drainage Area (AOI 33);
- Existing and Former Hazardous Waste Storage Areas (AOIs 14 and 36);
- Maintenance Shop (AOI 17);
- Septic System (AOI 37);
- Cooling Tower Flumes (AOI 38); and
- The Tributary (southeast corner of the site) (ERM, 2021).

Soil samples were collected at various depths between 0.5 and 7 feet bgs and analyzed for one or more of the following: title 22 metals and hexavalent chromium, TPH carbon chain (TPH-cc), PCBs, OCPs, and VOCs. Sub-slab vapor samples and soil vapor samples at 5 feet bgs were collected and analyzed for VOCs (ERM, 2021a). Sample locations are indicated on

Figures 5A through 5E and analytical results were included in Tables 3 through 16 of the RFI Work Plan (RFI Work Plan tables are included in Appendix A for reference).

Soil and/or soil vapor results at the Cooling Towers 1, 2 and 4 (AOIs 10 and 12), the railroad spur, the tributary, the existing and former hazardous waste storage areas (AOIs 14 and 36), the sludge drainage area (AOI 33), and the landfill II (northern fill; AOI 34) were all less than the commercial screening levels. A brief description of the sampling results that were above the screening levels is presented below. At the Cooling Towers, shallow arsenic contamination was detected at two locations by Cooling Tower 3 (AOI 19) but was not fully delineated (later delineated and removed by Roux [on behalf of BTC III] per discussion in Section 2.4.4.3). At the Chadwick Channel (AOI 11), shallow TPH-d contamination was detected and delineated. At landfill I (AOI 22), lead and arsenic were detected in soil in two areas (LFI-1 and LFI-3) above commercial screening levels. At the flumes (AOI 38) associated with Cooling Towers 1 and 2, as well as 3, and 4, one soil sample collected 0.5 feet below the Cooling Tower 3 flume bottom contained a concentration of thallium slightly above the commercial screening level and was delineated vertically (lateral delineation not feasible/warranted because soil sample was collected within an expansion joint within the concrete-lined flume bottom). It should be noted that thallium is not a constituent of potential concern related to the Site usage.

At the maintenance shop and septic system, 12 SVPs were installed at 5 feet bgs as shown on Figure 11. VOCs including tetrachloroethene (PCE), bromodichloromethane (BDCM), chloroform, 1,1-dichloroethane (1,1-DCA), and vinyl chloride were detected in soil vapor at concentrations above the commercial calculated soil vapor screening level using the most conservative default AF 0.03. Additional details for each AOI investigated were presented in Section 5.4 of the RFI Work Plan.

2.4.3.2 Interim Data Gap Soil Sampling (2020)

In October and November 2020, Northgate (on behalf of SCE) conducted soil sampling at the Unit 4 Cooling Tower and Transformer (AOI 12), the former auxiliary transformer locations (AOI 23), the Sulfuric Acid Tanks (AOI 24), and Sodium Hypochlorite Tanks (AOI 35). Twenty-one hand auger borings (HA1 through HA21) were advanced near the four (4) AOIs (Figures 5B through 5D). Soil samples were analyzed for TPH, PCBs, and/or pH (Tables 20 through 22 of the RFI Work Plan; Appendix A). All detected soil results for TPH and PCBs were below commercial/industrial screening levels. The detected soil results were also below residential screening levels. The pH in soil ranged from 5.69 to 10.1 standard units.

Findings of the sampling indicated that AOI 12 and AOI 23 have been adequately characterized and no additional sampling was required. Additional sampling was recommended at AOI 24 and

AOI 35 per DTSC's comments. Additional details for each AOI investigated are presented in Section 5.4 of the RFI Work Plan. A copy of the *Interim Data Gap Soil Sampling Report* (Northgate, 2021a) was included in Appendix B of the RFI Work Plan (within the *DGA Report* [Northgate, 2021b]).

2.4.3.3 Limited Subsurface Site Investigation (2020)

In 2020, Path Forward Partners, Inc. (Path Forward) conducted a Limited Subsurface Site Investigation on behalf of BTC III (Path Forward, 2020b). Path Forward conducted a soil and soil vapor investigation at the Site of Units 1-4 and the Peaker Unit 5, specifically targeting areas of staining, the oil/solvent storage area, the hazardous waste accumulation area, and the lubricant oil aboveground storage tanks (ASTs). Thirteen (13) borings were proposed; however, two (2) borings by Units 1 and 2 were abandoned due to thick concrete on the order of 3 to 4 feet. Eleven (11) borings (PFP-1 through PFP-11) were advanced to 4 feet bgs and 22 soil samples were collected and analyzed for TPH, VOCs, SVOCs, PCBs, metals, and pH (Figures 5C, 5E, and 8 and Table 23 of the RFI Work Plan; Appendix A). All soil results were less than the DTSC SLs and USEPA RSLs for commercial land use. Six (6) SVPs (PFP-1 through PFP-3, PFP-7, PFP-9, and PFP-10) were installed to 5 feet bgs and soil vapor samples were analyzed for VOCs. Soil vapor results were less than the calculated DTSC SLs using an AF of 0.03, with the exception of PCE (Table 24 of the RFI Work Plan; Appendix A). PCE was detected in one sample by the Peaker Unit 5 at a concentration of 130 micrograms per cubic meter ($\mu g/m^3$), which exceeds the calculated DTSC SL of 67 $\mu g/m^3$ when applying the most conservative default AF 0.03 (Figure 8B). Path Forward concluded that it does not appear significant releases have occurred beneath the power blocks or peaker unit based on the low concentrations detected during this investigation (Path Forward, 2020b). Additional details for each AOI investigated are presented in Section 4. A copy of the *Limited Subsurface Site Investigation Report* was included in Appendix B of the RFI Work Plan (within the *DGA Report*).

2.4.4 Removal Action Activities

Information regarding pertinent previous or ongoing removal action activities and associated reports are summarized below.

2.4.4.1 Soil Removal at Construction and Operations Waste Area (2020)

Between May and June 2020, ERM (on behalf of previous Site owner GenOn) removed arsenic and lead-impacted soil from the construction and operations waste area of the Site (AOI 22). The arsenic and lead-impacted soil was discovered in October 2019, in the northwest corner of the Site at two test pits (LFI-1 and LFI-3) by Ardent (ERM, 2020). During excavation activities,

ERM characterized the lateral and vertical extent of impacted soil based on field screening using portable x-ray fluorescence (XRF) analyzer and after excavation performed confirmation soil sampling to evaluate concentrations of soils left in place (Figure 5F). A total of 87 confirmation soil samples (43 base samples and 44 sidewall samples) were collected to verify the remaining soil beneath and around the excavation did not contain arsenic and lead concentrations above applicable commercial screening levels (ERM, 2020). The final excavation area was approximately 190 feet long by 105 feet wide with a depth ranging from 2 to 8 feet bgs (ERM, 2020). Approximately 6,445 tons of soil were removed from the Site and disposed of at the Yuma County Landfill in Yuma, Arizona. Additional details regarding AOI 22 are presented in Section 5.4.22. A copy of the Soil Removal Memorandum by ERM was included in Appendix B of the RFI Work Plan (included in the DGA report) and analytical results were summarized in Tables 17 through 19 of the RFI Work Plan (Appendix A).

2.4.4.2 Transformer Spill and Soil Removal Summary (2021)

On July 22, 2021, during demolition and decommissioning activities at the Site conducted on behalf of BTC III, a Link Belt 750 Excavator inadvertently removed the western transformer from the Cooling Tower 4 pad, resulting in approximately 40 gallons of transformer mineral oil being released to an unpaved surface. When the operator identified that the transformer was leaking fluid, the transformer was immediately placed on the ground to limit the lateral extent of the spill. The transformer was later placed on plastic sheeting and the remaining contents were relocated into a 55-gallon drum.

To remove all oil-impacted soil on the eastern and northern sides of the transformer/substation pad, ERM (on behalf of BTC III) oversaw soil excavation activities on July 22 and 23, 2021. Four soil confirmation samples were collected at the bottom of the "L"-shaped excavation and analyzed for PCBs. PCBs were not detected above the laboratory RL of 0.050 mg/kg. Stockpiled soil was sampled and analyzed for waste characterization purposes. On August 19, 2021, approximately 146.82 tons of non-hazardous, TPH-impacted soil from the transformer spill was transported to Waste Management, Inc. in Antelope Valley, California. The *Transformer Spill and Soil Removal Summary* document prepared by ERM (document included as a supporting document in Appendix B) concluded that no additional actions were warranted in relation to the spill (ERM, 2021b).

2.4.4.3 Soil Removal Completion Report at Cooling Towers for Units 1 and 2 (2021/2022)

Based on the analytical results of previous investigations conducted by Ardent/ERM (ERM, 2021a), URS Corporation (URS; URS, 2005), EarthTech (EarthTech, 2005), and Roux

Associates, Inc. (Roux; Roux, 2021a), elevated arsenic concentrations generally occurred approximately 1.5 feet horizontally from the cooling tower structures associated with Units 1 and 2 and the adjacent water channel at an approximate depth of 4 to 6 inches bgs. In general, a significant reduction in concentrations to below the Southern California ambient arsenic screening level (12 mg/kg) was observed at approximately 3 feet horizontally from the cooling towers at depths of 6 and 12 inches bgs. The previous results and the soil removal action are discussed in further detail in Northgate's *Revised Soil Removal Completion Report* at Cooling Towers for Units 1 and 2 dated January 6, 2022, which is included as a supporting document in Appendix B.

Based on the previous analytical results, removal of surface material (soil and asphalt) from the west, north, and east sides of the cooling towers, and the south side of the water channel was proposed to remove arsenic impacts. In general, the proposed excavation areas were approximately 4 feet wide and 6 inches deep. However, several limited areas were proposed to have slightly wider and/or deeper removals based on previous analytical results.

In August 2021, Northgate (on behalf of SCE) conducted pre-excavation confirmation soil sampling at cooling towers for Units 1 and 2. Either previous soil sample results, pre-excavation confirmation samples collected in August 2021, or post excavation confirmation samples collected at the excavation limits (conducted in October 2021 by Northgate) were used to provide clean limits for the soil excavations. Soil with arsenic concentrations exceeding the Southern California ambient arsenic screening level was removed and disposed offsite at an appropriately permitted and licensed disposal facility. Soil excavation and disposal of arsenic-affected soil adjacent to the cooling tower building pads and the adjacent water channel took place between August 20, 2021 and September 2, 2021 and was conducted by American Integrated Services (on behalf of SCE). All earthmoving and soil loading activities were monitored in accordance with the South Coast Air Quality Management District (SCAQMD) Rule 1466 guidelines by Roux.

Northgate recommended no additional work at the former cooling towers for Units 1 and 2 (AOI 10) with regard to removal of arsenic-impacted soil and requested the issuance of a no further action letter (Northgate, 2022a). On January 6, 2022, DTSC approved the report via email (a copy of the DTSC email approval is included in Appendix B).

2.4.4.4 Soil Removal at Cooling Tower 3 (2021)

Based on the analytical results of previous investigations conducted by Ardent/ERM (ERM, 2021a), arsenic concentrations above the Southern California ambient arsenic screening level (12 mg/kg) were detected at concentrations of 14.3 mg/kg and 26.4 mg/kg at locations

CT3-2 and CT3-6, respectively at depths of 0.5 feet bgs. To delineate the extent of the arsenic impacts near the former cooling tower for Unit 3 (AOI 19), BTC III's environmental consultant, Roux (on behalf of BTC III), advanced four (4) step-out soil borings on September 9, 2021. The soil borings were located 4 feet from the original Ardent sampling locations, CT3-2 and CT3-6, in three (3) cardinal directions. Soil samples were collected at 2 feet bgs in each of the six step-out soil borings. Arsenic concentrations in the step-out samples were all below the Southern California ambient arsenic screening level of 12 mg/kg, according to an analytical table and associated figures submitted by Roux to the DTSC on October 18, 2021 (Roux, 2021b).

According to the email summary provided by Roux to DTSC on October 18, 2021, two (2) small soil excavations were completed on October 6, 2021 to remove arsenic-impacted soil at previous sampling locations CT3-2 and CT3-6. Work was conducted under the SMP prepared for the Site by Roux on behalf of BTC III (Roux, 2021a). Soil excavations at both locations were 8 feet by 4 feet by 2 feet deep and generated approximately 5 cubic yards of soil in total. Soil was transported under non-hazardous waste manifest for disposal at Simi Valley Landfill (Roux, 2021b). A copy of the email and attachments provided by Roux regarding the arsenic-impacted soil removals is included as a supporting document in Appendix B.

2.4.4.5 Demolition of Generating Units 1 through 5 and Related Soil Removals

Unit 5 (Peaker)

Unit 5 (Peaker) was demolished in November 2021 by BTC III and its contractors, following RFI sampling activities conducted by Northgate. RFI soil sampling conducted near one of the two exterior transformers indicated shallow PCB concentrations above commercial/industrial screening levels (Figure 8). Subsequent RFI step-out sampling was successful in vertically and laterally delineating PCB concentrations above commercial/industrial screening levels adjacent to the transformer pad (see Figure 8A and the discussion of RFI sampling results in Section 4.6.1). RFI sampling results, figures, and soil boring location information in the vicinity of the transformer south of Unit 5 were transmitted to BTC III's consultants Roux and ERM on June 1, 2022.

Roux (on behalf of BTC III) collected a composite concrete sample (analyzed for TPH and PCBs in November 2021) of the transformer pad at Unit 5 and additional soil confirmation samples (analyzed for PCBs in March and April 2022) to further support materials handling and waste characterization procedures associated with Site demolition. In August 2022, Roux (on behalf of BTC III) oversaw the demolition of the transformer concrete pad and a soil excavation to address the PCB-affected soil surrounding the former transformer location. The resulting soil

excavation dimensions measured approximately 16 feet by 20 feet by 2.5 feet deep. Concrete debris was transported for disposal at Antelope Valley Landfill. Soil generated from the excavation activities was transported for disposal at Kettleman Hills (Roux, 2023a).

Roux prepared a summary email to DTSC on January 18, 2023, with details regarding the additional sampling and material removal/disposal operations (Roux, 2023a). A copy of the January 18, 2023 email to DTSC along with supporting tables, figures, and laboratory analytical reports is included in Appendix B. According to email correspondence with Roux on May 1, 2023, soil disposed of at off-Site disposal facilities was not subject to USEPA Toxic Substances Control Act (TSCA) regulations.

Units 3 & 4

Units 3 & 4 were demolished in the first half of 2022 by BTC III and its contractors, following RFI sampling activities conducted by Northgate. RFI soil sampling conducted near two transformers located south of Units 3 & 4 indicated shallow TPH and PCB concentrations above commercial/industrial screening levels (Figure 14). Subsequent RFI step-out sampling was successful in vertically and laterally delineating PCB concentrations above commercial/industrial screening levels adjacent to the two (2) transformer pads (see Figures 14A and 14B and the discussion of RFI sampling results in Section 4.6.1). RFI sampling results, figures, and soil boring location information in the vicinity of the transformers located south of Units 3 & 4 were transmitted to BTC III's consultants Roux and ERM on June 22, 2022.

Roux (on behalf of BTC III) collected composite concrete samples of the transformer pads at former Units 3 & 4 to further support materials handling and waste characterization procedures associated with Site demolition. In August 2022, Roux oversaw the demolition of the transformer concrete pads and two (2) soil excavations to address the PCB and TPH-affected soils surrounding the former transformer locations. The soil excavation dimensions measured approximately 35 feet by 20 feet by 2.5 feet deep and 35 feet by 25 feet by 2.5 feet deep. Four (4) sidewall confirmation samples and one (1) bottom confirmation sample were collected from each of the two (2) excavations and analyzed for TPH (C_6-C_{44}) and PCBs. Concrete debris was transported for disposal at Antelope Valley Landfill. Soil generated from the excavation activities was transported for disposal at Kettleman Hills (Roux, 2023a).

Roux prepared a summary email to DTSC on January 18, 2023, with details regarding the additional sampling and material removal/disposal operations (Roux, 2023a). A copy of the January 18, 2023 email to DTSC along with supporting tables, figures, and laboratory analytical reports is included in Appendix B. According to email correspondence with Roux on May 1, 2023, soil disposed of off Site was not subject to USEPA TSCA regulations.

Units 1 & 2

Units 1 & 2 were demolished in the second half of 2022 by BTC III and its contractors, following RFI sampling activities conducted by Northgate. RFI soil sampling was conducted by Northgate at eight (8) former transformer locations located on the south side of Units 1 and 2 (Figure 14). The transformers had been removed prior to RFI sampling activities in September 2021, but their concrete pads were still in place when RFI sampling was conducted. RFI soil results at the transformer locations did not indicate concentrations of TPH, VOCs, or PCBs above commercial/industrial screening levels (see RFI sampling results in Section 4.26).

In November 2021, as part of demolition preparation activities, Roux collected composite samples of concrete at locations where PCBs were suspected to have been present in equipment related to historical operations at the Site. Concrete in certain locations near Units 1 and 2 contained PCBs at concentrations greater than or equal to 50 mg/kg. As a result, Roux and BTC III began coordination with the USEPA TSCA group. Additional composite samples were collected in January and February 2022 to further characterize the extent of PCBs in this area and to support preparation of a Self-Implementing PCB Cleanup and Disposal Notification Plan (SICP). Additional characterization sampling of concrete, asphalt, and soil was conducted between June and November 2022. BTC III is continuing to work with both DTSC and USEPA to characterize and remediate PCB impacts at former Units 1 and 2 in accordance with the TSCA regulations. It should be noted that the continuing investigation of PCB-impacted material under USEPA's TSCA group at former Units 1 & 2 is considered separate from the scope of this RFI.

3.0 RFI IMPLEMENTATION DETAILS

3.1 Timing

Field efforts associated with the RFI took place between August 6, 2021 and December 19, 2022. Field efforts included initial Site walk to mark boring locations, geophysical surveying to clear proposed locations for underground utilities, advancement of soil borings for the collection of soil samples, retrieval of one (1) grab groundwater sample, and installation of SVPs, soil vapor sampling events, and SVP destruction activities. Representative photographs of these activities are included in Appendix C. Details related to field efforts are discussed in the following sections.

3.2 DTSC Notifications and Progress Updates

On August 9, 2021, DTSC was notified via email of scheduled field work to begin at the Site on August 23, 2021. As analytical results were received from the laboratory, multiple meetings were held between DTSC, SCE, and Northgate (also referred to as the RFI Project Team) to discuss preliminary analytical results, review draft figures and tables, propose additional field mobilizations to laterally and/or vertically delineate chemicals identified in soil and soil vapor above commercial/industrial screening criteria, and provide field status/schedule updates. RFI Project Team meetings were held virtually on September 8th, October 28th, November 19th, December 2, 2021, January 28, 2022, February 28, 2022, April 25, 2022, and October 11, 2022.

Based on discussions during Project Team meetings mentioned above, several technical memorandum-style work plans were developed and submitted to DTSC which proposed supplemental RFI sampling activities to adequately delineate the lateral and vertical extent of chemicals identified above commercial/industrial screening criteria. A brief summary of the Technical Memoranda (Tech Memos) submitted to DTSC and DTSC responses is presented below. Copies of the Tech Memos and relevant DTSC correspondence are included in Appendix B.

- *Technical Memorandum: Additional RFI Soil Vapor Sampling* was submitted to DTSC on December 6, 2021. This Tech Memo provided a summary of RFI soil vapor sampling efforts and proposed additional step-down soil vapor sampling up to 250 feet bgs at MS-23C, located in the vicinity of a former sodium hypochlorite tank and north of the former warehouse (AOI 16) and maintenance shop (AOI 17; Northgate, 2021d). DTSC did not issue formal written approval for this document; however, verbal discussions during Project Team meetings indicated DTSC concurrence and Northgate was asked to proceed with the proposed additional RFI sampling.

- *Technical Memorandum: Additional RFI Soil Vapor Sampling* was submitted to DTSC on February 2, 2022. This Tech Memo proposed four (4) additional soil vapor sampling locations (identified as MS-29, MS-30, MS-31, and MS-32) to delineate elevated soil vapor concentrations identified west of the former warehouse (AOI 16) and maintenance shop (AOI 17; Northgate, 2022b). DTSC provided comments via email on February 1, 2022, in response to the initial version of this Tech Memo. DTSC comments were incorporated and addressed in the final Tech Memo dated February 2, 2022 (DTSC email comments are included in Appendix B).
- *Technical Memorandum: Soil Vapor Temporal Variability Assessment* was submitted to DTSC on March 15, 2022. This Tech Memo proposed resampling 18 of the previous RFI soil vapor sampling locations to reduce the uncertainty associated with potential soil vapor variability over time and in different seasons (Northgate, 2022c). The number of proposed soil vapor resampling locations was subsequently increased from 18 to 22 in response to DTSC comments received via email on March 17, 2022 (email correspondence included in Appendix B). Temporal variability results in the form of tables and figures were provided to DTSC on May 2, 2022, via email. DTSC issued an approval letter on July 18, 2022, which confirmed that no further temporal variability sampling was required (a copy of the DTSC approval letter included in Appendix B).
- *Technical Memorandum: Supplemental Soil Vapor and Groundwater Assessment* was submitted to DTSC on March 29, 2022. This Tech Memo proposed advancement of one (1) deep soil boring, identified as MS-23D, to an estimated depth of 425 feet bgs for the collection of deep soil vapor and groundwater samples below the former sodium hypochlorite tank (which was installed after SCE sold the property), located north of the former warehouse (AOI 16). Grab groundwater sampling results at this location would be evaluated to determine if construction of a groundwater monitoring well is warranted and potentially groundwater monitoring (Northgate, 2022d). A letter was issued by DTSC Geological Services Branch with several comments on the Tech Memo, but also recommended conditional approval. Northgate confirmed via email that the sampling program would be updated to be consistent with DTSC comments (DTSC letter and email response are included in Appendix B). Temporary well construction information and preliminary groundwater sampling results were submitted to DTSC on September 16, 2022, via email.

3.3 Underground Utility Clearance

Proposed drilling locations were marked in white paint and Underground Service Alert (a.k.a. DigAlert of Southern California) was notified at least 48 hours prior to the start of drilling activities, as required by law, in order to avoid potential damages to underground utilities in the vicinity of the boring locations.

On August 6, 13 and 19, 2021, October 14, 2021, February 4, 2022, and May 25, 2022, Northgate and its subcontractor, Ground Penetrating Radar Systems, LLC. (GPRS) of Toledo, Ohio performed geophysical surveys at the Site for the proposed boring locations and their vicinity. The surveys consisted of a ground-penetrating radar (GPR) scan, and other geophysical survey methods (e.g., electromagnetic and radio frequency methods) to scan for underground utilities and features at the Site. Maximum effective depth of the GPR survey was estimated by GPRS to be 3-5 feet bgs. However, in numerous locations around the Site, use of the GPR instrument was restricted due to an uneven ground surface surrounding some proposed borings. In addition to clearance of the proposed borings, GPRS scanned for underground utilities within the general vicinity of each boring in case additional step out borings were necessary. The locations of any detected utilities were marked directly at the Site with paint, flags, or stakes.

3.4 Permitting

Well permits were obtained for any soil boring advanced beyond 20 feet deep, in accordance with San Bernardino County Environmental Health Services (EHS) requirements. This applied to six (6) "step-down" sample locations completed at Unit 5 Peaker area (AOI 6; boring P-1B) and the former warehouse and maintenance shop areas (AOIs 16 and 17; borings MS-13B, MS-17B, MS-23B, MS-23C, and MS-23D). Construction of SVPs at sampling location MS-23D included the installation of a polyvinyl chloride (PVC) pipe to approximately 400 feet bgs to more accurately place deep SVPs. Because of the depth of this soil boring and the use of hard casing in close proximity to groundwater (water table identified at 460 feet bgs), a well destruction permit was also obtained from EHS for MS-23D. Copies of the approved permits from EHS are included in Appendix D.

3.5 Soil Boring and Sampling Protocols

Between August 23, 2021 and September 29, 2022, approximately 145 soil borings were advanced at the AOIs indicated in Section 1.2.2 and on Table 1.

3.5.1 Boring Installation and Sampling Protocols

Each boring was advanced using a hand auger to a depth of 5 feet bgs prior to being advanced with mechanized drilling equipment. If the total depth of the boring was less than 5 feet bgs, a hand auger was used exclusively to complete the soil boring. The total depth of the borings ranged from 0.5 feet bgs to 470 feet bgs. In general, soil samples were collected using a hand auger (sample analysis for non-volatiles), slide hammer (sample analysis includes volatiles) or in an acetate sleeve if advanced deeper than 5 feet bgs; however, soil conditions at some locations, particularly AOI 11, Chadwick Channel, were such that samples submitted for

volatile analyses were collected directly from the hand auger bucket (soil samples preserved using USEPA Method 5035) due to loose and dry soil conditions limiting sample recovery within the slide hammer sleeves.

Hand augering, direct-push drilling, and hollow stem auger drilling, and sampling was supervised by a Northgate geologist or other qualified environmental scientist familiar with the Site and the project objectives. Cuttings and core samples were logged in accordance with the Unified Soil Classification System (USCS) to provide a continuous record of subsurface lithology at each boring location. Field boring logs are included in Appendix E. All borings not utilized for temporary soil vapor wells were backfilled to the surface with hydrated bentonite chips. All subsurface generated cuttings other than those collected for laboratory analysis and decontamination rinse water were containerized in 55-gallon steel drums or covered roll-off bins for disposal as non-hazardous waste by an SCE-contracted waste hauler.

After sampling was complete, coordinates for each soil boring were collected using a Trimble Geo 7X handheld global positioning system (GPS) unit or cellular phone equipped with an appropriate geolocation application.

3.5.2 Actual Versus Planned Soil Boring Locations

In general, the borings were installed per the RFI Work Plan; however, a number of boring locations were either deleted, modified, or added due either to DTSC requests, refusal/utility location during boring installation, or the necessity of additional delineation step-out/down borings. A summary of deviations from the RFI Work Plan and conditional analyses completed as part of the RFI is presented in Table 1. Deviations from the DTSC-approved RFI Work Plan are addressed in more detail in Section 5.4.2.

3.5.3 Target Analyses

Soil samples were analyzed for TPH, VOCs, SVOCs, lead, metals, pH, and/or PCBs in accordance with the RFI Work Plan. All soil samples were submitted to Eurofins Calscience LLC (Eurofins) in Garden Grove, California under proper chain-of-custody protocol. A listing of soil analytical methods follows:

- TPH volatiles (gasoline range) by USEPA Method 5035/8015B;
- TPH extractables (diesel and motor oil range) by USEPA Method 8015B;
- VOCs by USEPA Method 5035/8260B;
- SVOCs by USEPA Method 8270C;

- Lead by USEPA Method 6020;
- CAM 17 Metals by USEPA Method 6020/7471A;
- PCBs by USEPA Method 8082; and
- pH by USEPA 9045C.

All soil analytical results were reported to the method detection limit (MDL) and concentrations reported above the MDL, but below the RL were flagged by the laboratory as estimated concentrations ("J-flagged").

3.6 Soil Vapor Probe Installation and Sampling Protocols

3.6.1 Soil Vapor Probe Installation and Sampling Protocols

Between August 23, 2021, and September 29, 2022, approximately 59 soil boring locations were converted into temporary SVPs. The SVPs were generally installed per the RFI Work Plan and in accordance with the DTSC *Advisory for Active Soil Gas Investigations* dated August 2015 (DTSC, 2015a). SVPs consisted of either polyethylene implants or stainless-steel implants (used at several of the deeper soil vapor sampling locations where a hollow stem auger or air rotary-casing hammer drilling rigs were required for installation) were installed at target sampling depths and connected to the surface using ¼-inch Nylaflow® tubing. Generally, a 1- to 1.5-foot-thick sand pack consisting of Number 3 Monterey Sand was placed around each SVP implant and hydrated bentonite was used for annular/surface seals. Individual SVP construction details are included in Appendix E.

Following installation, each SVP was allowed to equilibrate for a minimum of 24 or 48 hours prior to collecting soil vapor samples if advanced with direct-push rig or hand auger, respectively. Between August 27, 2021 and October 7, 2022, available SVPs were purged of three well volumes in accordance with the *DTSC Advisory* (DTSC,2015a). A shut-in test was successfully conducted on each SVP. Tracer gas, consisting of a mixture of n-pentane, n-hexane and n-heptane, was applied to a tissue and placed at the tubing-ground surface interface before sampling each SVP. The three compounds associated with the tracer were analyzed along with the full VOC list to determine if there were surface leaks to the subsurface due to improper construction of the soil vapor sampling train or defects associated with the SVP.

Following the purging process, the majority of the soil vapor samples were collected in a glass syringe and analyzed onsite by a California state-certified mobile laboratory, Jones Environmental, Inc. (Jones). Soil vapor samples collected on September 17, 2021, October 18, 2021, January 12, 2022, and April 4, 2022 were collected in Summa® canisters by Jones

personnel and were submitted to Jones' stationary laboratory in Santa Fe Springs, California under proper chain-of-custody protocol for analysis. All soil vapor samples were analyzed for the full suite of VOCs using USEPA Method 8260B by Jones via mobile lab or stationary lab.

Soil vapor samples which reported concentrations of the tracer gas compounds (n-pentane, n-hexane and n-heptane) were considered potentially affected by ambient air intrusion (samples with reported concentrations of tracer gas are shaded in blue on Table 7). In general, samples with reported concentrations of tracer gas were resampled in an attempt to collect a more representative sample of subsurface vapors without evidence of potential ambient air intrusion. If a resampled SVP still indicated significant concentrations of tracer gas, it was assumed that there was a defect in the SVP construction or that the probe integrity had been compromised due to heavy equipment and demolition activities in the area. To remedy these soil vapor data gaps, several replacement SVPs were installed (replacement probe IDs include the letter "R" to distinguish them from the original SVP at the same location) and sampled. Several examples of replacement SVPs constructed for resampling purposes include P-9-5R at Unit 5 Peaker (AOI 6), MS-21-5R and SS-12-5R at the former maintenance shop (AOI 17).

Following soil vapor sample collection, the temporary SVPs were abandoned by removing Nylaflow® tubing from the ground or cutting the tubing beneath the surface if the entire length of tubing could not be removed. The hydrated bentonite and/or cement grout seals were left in place.

3.7 Field Quality Control Samples Collected

Field quality control samples were collected during the investigation as follows:

- Field duplicates of soil and soil vapor samples were collected to assess the variance of the total process including sampling and analysis. The target duplicate rate was one (1) duplicate for every 10 soil samples (10%) analyzed and one (1) duplicate for every 20 soil vapor samples analyzed (5%). The final average field duplicate rates for soil (across all analyses) and soil vapor samples were 9.6% and 5.9%, respectively.
- Trip blanks supplied by the laboratory, were kept in each ice chest with soil VOC samples and transported to the laboratory for analysis with the samples to identify shipping and laboratory sources of contamination.
- Field blanks were collected to determine if any potential contaminants were present while the VOC soil samples were being collected. Field blanks were collected and analyzed on each day that VOC soil samples were collected.
- Equipment rinsate blanks were collected following equipment decontamination of the slide hammer, hand auger, or direct push rig sampling shoe. The target rate for

equipment rinsate blank collection was one (1) per 20 samples. Equipment rinsate blanks were collected and analyzed per the target rate.

- Additional sample volume was collected at a rate of approximately one per 20 samples or one per analytical batch for the laboratory analysis of matrix spike (MS) and matrix spike duplicate (MSD) samples to evaluate accuracy of analytical procedures conducted at the laboratory.

Honeywell brand, lab-grade water specifically designed for high-performance liquid chromatography (HPLC) and spectrophotometry was primarily used in generating the field blanks and equipment rinsate blanks during the RFI. Two samples of the lab-grade water from different batches (batch IDs DZ609 and EA182) were decanted in an office setting and analyzed as part of ongoing SCE projects for metals by drinking water method USEPA Method 200.8 and for VOCs by USEPA Method 8260B. Analytical results indicate that trace and minor[1] concentrations of various metals and chloroform are present in the lab-grade water. Lab-grade water chemical specifications and relevant excerpts from the laboratory analytical reports with lab-grade water test results are included in Appendix F.

Sparkletts brand distilled water was later utilized as the preferred lab-grade water used in QA/QC samples associated with collection of groundwater samples in September 2022 (at sample location MS-23D) because chloroform was confirmed present in Honeywell brand water and was a target analyte in the subsurface based on soil vapor concentrations detected in and around the former maintenance shop area (AOI 17). A representative sample of Sparkletts distilled water (sample identified as SDW-1) was collected in an office setting and analyzed for VOCs by USEPA 8260B at Eurofins. Chloroform was not detected in the distilled water sample above the laboratory detection limits and was considered suitable for equipment decontamination purposes, equipment rinsate blanks, field blanks, etc. A copy of the VOC results for sample SDW-1 are also included in Appendix F.

Further QA/QC details are included in Section 5.0.

[1] Trace concentrations refer to estimated or J flagged results reported above the MDL but below the RL. Minor concentrations refer to concentrations that are slightly above the RL.

4.0 ANALYTICAL RESULTS AND SCREENING COMPARISONS

Soil, soil vapor, and groundwater analytical results are presented in Tables 2 through 8 and briefly summarized with respect to each individual AOI in the following sections. AOIs and boring locations are shown in Figures 4 and 5. Laboratory analytical reports and chain of custody documentation associated with RFI sampling are included in Appendix G.

4.1 AOI 1 – Distillate Tank for Unit 5 Peaker

Background: A retired and empty distillate tank for Unit 5 Peaker was previously staged in the southeastern part of the Site (Figure 7). The distillate tank was removed as part of the demolition activities taking place between August and September 2021 (generally concurrent with RFI sampling activities).

Additional Assessment Conducted: Four (4) borings were advanced by Northgate around the base of the former distillate tank (DT-1 through DT-4; Figure 7). Soil samples were collected at depths of 2.5, 5, and 10 feet bgs and analyzed for TPH (Table 1). Additional sample material was retained at the laboratory on hold as contingency for possible analysis of VOCs, SVOCs, and polycyclic aromatic hydrocarbons (PAHs) if TPH concentrations exceeded 100 mg/kg, per the RFI Work Plan. TPH results in soil are discussed below. Contingency soil sample analyses were not warranted.

Multi-depth SVPs were also installed at 5 and 10 feet bgs in each boring, and soil vapor samples were collected and analyzed for VOCs. Soil vapor results are discussed in Section 4.2.1.

4.1.1 TPH in Soil

TPH results from the soil samples analyzed between 2.5 and 10 feet bgs were all less than 100 mg/kg (threshold for contingency analyses) and less than the applicable commercial/industrial screening levels as presented in Table 2.

4.1.2 VOCs in Soil Vapor

VOC results from the eight (8) soil vapor samples analyzed were all less than applicable commercial/industrial screening levels for soil vapor using the default AFs 0.03, 0.001, and 0.0005 (Table 7). The SVP installed at 5 feet bgs at location DT-1 was resampled on September 1, 2021, due to detection of tracer gas compounds in the sample collected on August 31, 2021 (see general protocol for tracer gas detections in Section 3.6.1). The resampling effort at DT-1-5 also reported tracer gas concentrations, therefore, the SVP may be compromised or damaged and soil vapor data at this location may be affected by ambient air

intrusion. Because soil vapor results for the other seven SVPs at AOI 1 did not indicate concentrations of VOCs above commercial/industrial screening levels, installation and sampling of a replacement probe for DT-1-5, per the general protocol for tracer gas detections described in Section 3.6.1, was not considered necessary or likely to change the conclusions or recommendations for this AOI.

4.2 AOI 2 – Former Boiler Chemical Cleaning Basin (Closed)

Background: The former BCCB was located in the southeastern part of the Site (Figure 4). The former BCCB was previously investigated and obtained regulatory closure in December 2011 (Jamison and Associates, 2011; DTSC, 2011b). The BCCB was demolished in 2022 as part of Site demolition activities.

Assessment Completed: Since the former BCCB has received regulatory closure, no additional RFI sampling was proposed in the RFI Work Plan.

4.3 AOI 3 – South Retentions Basin (Closed)

Background: The closed South Retention Basin was located in the southeastern part of the Site (Figure 4). The South Retention Basin was previously investigated and obtained regulatory closure in December 2011 (Jamison and Associates, 2011; DTSC, 2011b). The Southern Retention Basin was demolished in 2022 as part of Site demolition activities.

Assessment Completed: Since the former South Retention Basin has received regulatory closure, no sampling was proposed in this area as part of the RFI Work Plan.

4.4 AOI 4 – North Retentions Basin (Closed)

Background: The closed North Retention Basin was located in the southeastern part of the Site (Figure 4). The North Retention Basin was previously investigated and obtained regulatory closure in December 2011 (Jamison and Associates, 2011; DTSC, 2011b). The Northern Retention Basin was demolished in 2022 as part of Site demolition activities.

Assessment Completed: Since the former North Retention Basin has received regulatory closure, no sampling was proposed in this area as part of the RFI Work Plan.

4.5 AOI 5 – Fueling Station

Background: The former fueling station was located in the southeastern part of the Site and was used for vehicle fueling (Figure 7). A fuel underground storage tank (UST) was

historically located in the southern part of this area, east of the southern part of the North Basin as noted on Figure 7. In 2020, Path Forward noted that there was a 250-gallon gasoline aboveground storage tank (AST) in use at the fueling station (Path Forward, 2020a). The last remnants of the fueling station including the asphalt pavement and concrete pads were removed in the second half of 2021 (generally concurrent with RFI sampling activities).

Additional Assessment Conducted: Two borings (F5-1 and F5-2) were completed by Northgate, one adjacent to the fuel pump/AST and one adjacent to the UST to approximately 10 feet bgs. Soil samples were collected at depths of 2.5, 5, and 10 feet bgs. All soil samples were analyzed for TPH. Soil samples at 2.5 and 5 feet bgs were analyzed for VOCs and lead with the deeper sample on hold pending the results of shallow samples. Any concentration of TPH carbon ranges above 100 mg/kg, would trigger analysis of VOCs in soil (if not already scheduled for analysis).

Multi-depth SVPs were set at 5 and 10 feet bgs in both borings, and soil vapor samples were collected and analyzed for VOCs.

4.5.1 TPH in Soil

TPH results from the soil samples analyzed between 2.5 and 10 feet bgs were all less than 100 mg/kg (threshold for contingency analyses) and less than the applicable commercial/industrial screening levels as presented in Table 2.

4.5.2 VOCs in Soil

VOC results from the soil samples analyzed at 2.5 and 5 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 3.

4.5.3 Lead in Soil

Lead results from the soil samples analyzed at 2.5 and 5 feet bgs from both borings were less than the applicable commercial/industrial screening levels as presented in Table 5.

4.5.4 VOCs in Soil Vapor

VOCs results from the four (4) soil vapor samples analyzed were all less than applicable commercial/industrial screening levels using the default AFs 0.001 and 0.0005 (Table 7). The 5-foot soil vapor sample at F5-1 reported a PCE concentration of 88.7 µg/m^3 and is slightly above the DTSC-SL of 67 µg/m^3 using the most conservative default AF 0.03. The slightly

elevated PCE concentration at 5 feet in F5-1 was observed to decrease rapidly with depth. A PCE concentration of 14.9 µg/m^3 was reported in the deeper 10-foot sample at F5-1. PCE concentrations were below the screening level in the adjacent soil boring F5-2 in both the 5 and 10-foot samples. In addition, PCE was not reported above the RL in the 2.5 and 5-foot soil samples collected at F5-1 and F5-2. PCE is not known to have been stored or used at the former fueling station and all improvements, piping, and pavement have been removed from this area. Based on these observations, the source strength of PCE in soil vapor was considered to be weak and likely the result of an incidental and insignificant surface release; therefore, further soil vapor sampling was not proposed. All other VOCs reported in soil vapor samples collected at F5-1 and F5-2 were below commercial/industrial screening levels using the most conservative default AF 0.03.

4.6 AOI 6 – Unit 5 Peaker

Background: The former Unit 5 Peaker was located in the eastern part of the Site, northwest of the guard shack (Figure 4). Two transformers were identified adjacent to the southern wall of Unit 5 Peaker. It should be noted that the RFI Work Plan mentions only one transformer; however, a second small transformer was identified near the southwestern corner of the former Unit 5 Peaker (Figure 8) during the Site Walk on August 6, 2021 and additional RFI sampling was conducted to assess both transformers (see Table 1 for additional details regarding RFI Work Plan deviations). In November 2020, during Path Forward's limited site investigation, PCE was detected in soil vapor at 5 feet bgs at two borings at the Unit 5 Peaker at concentrations of 40 µg/m^3 at PFP-01 and 130 µg/m^3 at PFP-02 (Figure 8B). PCE at PFP-02 exceeded the commercial/industrial screening level for soil vapor using the most conservative default AF 0.03. The remaining VOC detections were less than the calculated commercial screening levels for soil vapor. Unit 5 Peaker was demolished in November 2021, following the RFI sampling discussed below.

Additional Assessment Conducted: Initially, eight (8) soil borings (PT1-1 through PT1-4 and PT2-1 through PT2-4) were completed by Northgate within the gravel area around the two transformers located immediately south of Unit 5 Peaker (Figure 8). The borings were installed in the gravel area immediately adjacent to the transformer concrete pads. Soil samples were collected at ground surface and at depths of 0.5, 1, and 2.5 feet bgs. Samples from surface, 0.5, and 1 feet bgs were analyzed for PCBs with the deeper samples on hold pending shallower results. Samples from 0.5 and 2.5 feet were collected for TPH analysis. If TPH was detected in any of the carbon ranges above 100 mg/kg, the sample from the corresponding depths were analyzed for VOCs (Table 1). PCB concentrations reported in two soil borings (PT1-3 and PT1-4) exceeded the commercial/industrial screening levels

and prompted the advancement of four additional step-out soil borings, discussed below in Section 4.6.1 (Figure 8A).

One soil/soil vapor boring (P-1) was advanced to 10 feet bgs, directly west of historical sample location PFP-02 (Figure 8). Soil samples were collected from the boring at 2.5, 5, and 10 feet bgs and analyzed for VOCs. Four nested SVPs were also installed west of the Unit 5 Peaker (P-1 through P-4). Multi-depth SVPs were installed and sampled at 5 and 10 feet bgs in each boring. Concentrations of PCE in SVPs P-1 through P-4 exceeded commercial/industrial screening levels only when using the most conservative default AF 0.03 and prompted the advancement of six (6) additional step-out and step-down SVPs by Northgate, discussed below in Section 4.6.4.

4.6.1 PCBs in Soil

PCB concentrations were identified above commercial/industrial screening levels in soil at PT1-3 and PT1-4 at depths of up to 1 feet bgs (Table 6). Concentrations of Aroclor-1254 (maximum concentration of 6.9 mg/kg) were identified above commercial/industrial screening level in the surface, 0.5, and 1.0-foot soil samples collected at PT1-3. In addition, concentrations of Aroclor-1260 (maximum concentration of 1.5 mg/kg) were identified above the commercial/industrial screening level in the 0.5 and 1.0-foot soil samples collected at PT1-3. The 1-foot soil sample at PT1-4 also contained an Aroclor-1254 concentration of 0.93 mg/kg which exceeds the DTSC-SL. Step-out soil borings PT1-3N, PT1-3E, PT1-4S, and PT1-4E were positioned approximately 5 feet away from PT1-3 and PT1-4 and advanced to a total depth of 2.5 feet bgs with soil samples collected at ground surface, 0.5, 1, and 2.5 to delineate the lateral extent of PCBs in shallow soil to the east of the former transformer pad (Figure 8A; Table 6). PCB concentrations in the step-out soil samples and the remaining soil samples collected around the transformer pads were below commercial/industrial screening levels. Adequate lateral and vertical delineation of PCBs in shallow soil above commercial/industrial screening levels has been achieved at the Unit 5 Peaker AOI (Figure 8A).

Northgate provided soil analytical information, associated figures, and soil boring location information to BTC III's consultants (Roux and ERM) and noted that concentrations of PCBs in soil above 1 mg/kg may require special handling and disposal in accordance with USEPA regulations. As described in Section 2.4.4.5, soil impacted by PCBs above commercial/industrial screening levels was subsequently removed by BTC III's consultants, Roux and ERM, under the SMP for the Site. Additional information regarding the subsequent removal of PCB-impacted soils at Unit 5 Peaker (AOI 6) is included in Section 2.4.4.5.

4.6.2 TPH in Soil

TPH carbon range concentrations exceeded the established threshold of 100 mg/kg in soil samples PT1-2-0.5, PT1-3-0.5, and PT2-1-0.5 prompting the analysis of VOCs at these locations (VOCs results are discussed in Section 4.6.3). TPH results from the soil samples collected between 0.5 and 2.5 feet bgs from each boring were all less than the applicable commercial/industrial screening levels as presented in Table 2.

4.6.3 VOCs in Soil

VOC analysis of soil samples was conducted at sample locations P-1, PT1-2, PT1-3, PT2-1 per the conditions stated in the RFI Work Plan (Table 1). In addition, SCE elected to analyze soil for VOCs at locations where collocated soil vapor concentrations exceeded commercial/industrial screening levels utilizing the most conservative default AF 0.03 (includes soil collected from step-down and step-out boring locations P-1B and P-5 through P-9). VOC results from the soil samples analyzed were all less than the applicable commercial/industrial screening levels as presented in Table 3.

4.6.4 VOCs in Soil Vapor

Based on the soil vapor results from SVPs P-1 through P-4 that exceeded commercial/industrial screening levels only for default AF 0.03 and delineation conditions described in the RFI Work Plan, additional step-down and step-out borings P-1B and P-5 through P-9 were advanced with single and nested SVPs installed to assess the nature and extent of VOC concentrations in soil vapor near the Unit 5 Peaker area (Table 1; Figure 8). VOCs results from the 22 soil vapor samples analyzed were all less than applicable commercial/industrial screening levels using the default AFs 0.001 and 0.0005 (Table 7).

PCE concentrations were reported in 21 of 22 soil vapor samples collected and ranged from 10.1 to 317 µg/m^3. PCE concentrations in 14 samples exceeded the DTSC-SL of 67 µg/m^3 using the most conservative default AF 0.03 (Table 7). PCE concentrations above the DTSC-SL were laterally delineated at 5 feet bgs and displayed consistent declining concentrations with depth beyond 20 feet bgs in the observed “hot spot” centered around sample location P-1/P-1B (Figure 8B).

Benzene concentrations were reported in 10 of 22 soil vapor samples collected and ranged from 1.0 to 16.4 µg/m^3. Only the benzene concentration reported in the 5-foot step-out sample at P-6 (16.4 µg/m^3) slightly exceeded the DTSC-SL of 14 µg/m^3 using the most conservative default AF 0.03. The benzene concentration declined to 1.0 µg/m^3 in the 20-foot sample at P-6 and was

not detected in any other soil vapor sample above commercial/industrial screening levels at the Unit 5 Peaker area (Table 7). Benzene was not reported above the laboratory RL in the soil samples collected from P-6 at 5 and 20 feet bgs. Based on these observations the source strength of benzene in soil vapor was considered to be weak and likely the result of an incidental and insignificant surface release; therefore, further soil vapor sampling was not proposed. Tracer gas compounds were reported in the 5-foot soil vapor sample at P-9 on September 17, 2021, prompting the installation and sampling of a replacement SVP identified as P-9-5R on October 18, 2021. Replacement probe P-9-5R soil vapor results did not identify tracer gas compounds above laboratory detection limits (Table 7).

4.7 AOI 7 – Administration Building

Background: The administration building was located in the east central portion of the Site, west of Unit 5 Peaker and south of Units 1 and 2 (Figure 4). The administration building was removed in 2022 as part of Site demolition activities.

Assessment Completed: No historic use of hazardous substances in this area; therefore, sampling was not proposed in the RFI Work Plan.

4.8 AOI 8 – Decommissioned Reverse Osmosis (RO) Equipment and Basin

Background: The decommissioned RO equipment and basin was located south of Units 3 and 4 (Figure 4). RO was previously used to treat groundwater so that it could be used as cooling water at the Site.

Assessment Completed: No historic use of hazardous substances in this area; therefore, sampling was not proposed in the RFI Work Plan.

4.9 AOI 9 – Laydown Area

Background: The laydown area was located in the southwestern section of the Site, west of the decommissioned RO equipment and basin (Figure 4). The laydown area was used for temporary equipment storage.

Assessment Completed: No historic use of hazardous substances in this area; therefore, sampling was not proposed in the RFI Work Plan.

4.10 AOI 10 – Units 1 and 2 Cooling Towers

Background: The former cooling towers for Units 1 and 2 were located in the western portion of the Site (Figure 4). As previously summarized in Section 2.4.4.2 and as reported in further detail in Northgate's *Revised Soil Removal Completion Report at Cooling Towers for Units 1 and 2* dated January 6, 2022 (Appendix B), arsenic concentrations greater than the Southern California ambient arsenic screening level (12 mg/kg) were detected in shallow soil in the vicinity of the cooling towers. Arsenic generally occurred approximately 1.5 feet horizontally from the cooling tower structures and the adjacent water channel at an approximate depth of 4 to 6 inches bgs. In general, a significant reduction in concentrations to below the arsenic Southern California ambient arsenic screening level was observed at approximately 3 feet horizontally from the cooling towers at depths of 6 and 12 inches bgs. Cooling towers associated with Units 1 and 2 were demolished in the first half of 2021, prior to the RFI sampling activities.

Assessment Completed: As described in Section 2.4.4.3, between August and September 2021, confirmation sampling was conducted and soil with arsenic concentrations exceeding the Southern California ambient arsenic screening level was removed and disposed offsite at an appropriately permitted and licensed disposal facility. These activities were coordinated by Northgate on behalf of SCE. Northgate recommended no additional work at the cooling towers for Units 1 and 2 with regard to removal of arsenic-impacted soil and requested the issuance of a no further action letter (Northgate, 2022a). On January 6, 2022, DTSC approved of Northgate's report via email (Appendix B).

4.11 AOI 11 – Chadwick Channel

Background: The Chadwick Channel is oriented north-south and transects the central portion of the Site, east of Units 1 and 2 cooling towers and west of Units 1 and 2. The Chadwick Channel originates north of the Site and flows through industrial upstream facilities, prior to entering the Site. Previous upstream releases to the Chadwick Channel were documented in the 1980s and 1990s (Geraghty & Miller, 1997).

In October 2019, Ardent collected ten composite (CC-1 through CC-10) soil samples (composed of 4 discrete samples) within the Chadwick Channel at 0.5 feet bgs (Figures 5C and 5D) as part of a due diligence investigation. The end-to-end distance of the lines that the four discrete samples were collected along varied from 131 feet for the CC-2 sample to 47 feet for the CC-9 sample. The four individual samples were provided to the laboratory who composited the individual samples and then analyzed them for TPH-g, TPH-d, TPH-mo, PCBs, and CAM17 metals plus hexavalent chromium.

Compositing soil samples for TPH-g analyses is not normally a recommended sampling procedure due to the high volume of VOCs in the TPH-g range. However, the shallow sampling depth within the Chadwick Channel is considered to have a greater impact on the volatilization of the VOCs in any TPH-g present in the soil compared to the compositing effects. Moreover, TPH is not a consistent entity, making the assessment of health effects and development of toxicity values for mixtures of hydrocarbons problematic.

TPH-g, TPH-mo, metals, and PCB soil results were all less than the commercial/industrial screening levels (presented in Table 7 of the RFI Work Plan; Appendix A). TPH-d was detected in one composite sample (CC-2, which consists of samples CC-2-A, CC-2-B, CC-2-C, and CC-2-D) at concentrations greater than the USEPA RSL (published for the aromatic high carbon range) but less than the LARWQCB SSL. In addition, the laboratory RLs were less than the commercial/industrial screening levels.

Additional Assessment Conducted: Considering the comments from DTSC regarding the previous samples collected by Ardent and with additional review, 11 additional soil borings (F11-1, F11-2A, F11-2B, F11-3 through F11-10) were advanced by Northgate along the channel to supplement the previous data collected by Ardent in 2019 and to delineate the TPH-d detected by historical sample location CC-2 (Figure 9). Soil samples were collected at depths of 0.5, 2.5, and 5 feet bgs at each sample location with the exception of F11-9 where hand auger refusal prevented the collection of the 2.5 and 5-foot soil samples (Table 1). The samples from 0.5 and 2.5 feet bgs were analyzed for TPH-d, TPH-o, VOCs, SVOCs and PCBs with the deeper 5-foot samples on hold pending results of the shallower samples. The VOC and SVOC analyses were conducted to provide speciation to replace the TPH-g analysis and supplement the TPH-d analyses.

4.11.1 TPH in Soil

TPH results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 2.

4.11.2 VOCs in Soil

VOC results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 3.

4.11.3 SVOCs in Soil

SVOC results from the soil samples analyzed at 0.5 and 2.5 feet bgs were not detected above the applicable laboratory reporting limits and were less than commercial/industrial screening levels as presented in Table 4.

4.11.4 PCBs in Soil

PCB results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 6.

4.12 AOI 12 – Unit 4 Cooling Towers and Cooling Tower Transformer

Background: The former Unit 4 cooling towers were located in the northern section of the Site (Figure 4). In October 2019, Ardent advanced eight soil borings (CT4-1 through CT4-8) adjacent to the cooling tower (Figures 5B and 5C). Soil samples were collected at 0.5 feet bgs from each of the eight borings and analyzed for metals. All the soil results were less than the commercial screening levels or less than background concentration for arsenic (presented in Table 6 of the RFI Work Plan). In addition, all the laboratory RLs were less than the commercial/industrial screening levels. The cooling towers associated with Unit 4 were demolished in the first half of 2021, prior to RFI sampling activities.

The cooling tower transformer was located directly south of the Unit 4 cooling towers (Figure 4). Between October 28, 2020 and November 2, 2020, Northgate advanced two borings (HA16 and HA17) to 2.5 feet bgs adjacent to the transformer drains (Figure 13). At both borings, soil samples from 0.5 and 2.5 feet bgs were analyzed for TPH and soil samples from 0 (ground surface or first soil encountered), 0.5, and 1 feet bgs were analyzed for PCBs. TPH and PCB soil results were all less than the applicable commercial screening levels (presented in Tables 20 and 21 of the RFI Work Plan; Appendix A). In addition, all the laboratory RLs were less than the commercial screening levels.

Assessment Completed: Based on previous sampling conducted by Ardent and Northgate, no immediate concerns were noted in this area and additional sampling as part of the RFI was not conducted. The SMP prepared by Roux, BTC III's environmental consultant, is in place to investigate and address any unknown or unexpected contamination encountered during demolition and grading operations.

4.13 AOI 13 – Generating Units 3 and 4

Background: Units 3 and 4 were located in the central part of the Site and were demolished in 2022 (Figure 4). Historically, SCE has considered that the former generating stations would remain generating stations into the foreseeable future and therefore the RFI focusses on accessible areas on Site with only minimal investigation of sub-slab and foundation areas on Site. Moreover, the power blocks were constructed with multiple drains and sumps throughout the plants that collected any generated liquids, piped those wastes to oil-water separators and then to the basins included in the original court stipulation. The sumps, drains, piping, pumps, and oil-water separators are appurtenances to the basins, which were closed in 2011 after being adequately characterized. Furthermore, Path Forward investigated Units 3 and 4 (as noted in Section 4.4.4 of the RFI Work Plan). TPH, VOCs, SVOCs, PCBs, and metal soil (PFP-8 through PFP-11) and VOC soil vapor (PFP-9 and PFP-10) results were less than commercial/industrial screening levels using the most conservative default AF 0.03 (Figure 5C). The tabulated soil and soil vapor results were presented in Tables 23 and 24 of the RFI Work Plan (Appendix A). In addition, the soil laboratory RLs were less than the commercial screening levels, with the exception of n-nitrosodimethylamine (NDMA). The commercial/industrial screening level of NDMA is 0.034 mg/kg and the laboratory RLs were slightly higher and ranged between 0.081 and 0.094 mg/kg. However, NDMA is not a COPC for the Site.

Assessment Completed: Additional sampling was not proposed as part of the RFI Work Plan.

4.14 AOI 14 – Hazardous Waste Accumulation Area

Background: The hazardous waste accumulation area was located in the southern section of the Site, immediately east of the laydown area (Figure 4). Drums and cans of oily waste were stored in this area. Historically, AOI 14 included some infrastructure for the former tank farm area located west of this area. In October 2019, Ardent collected and analyzed two soil vapor samples (EHW-1 and EHW-2) for VOCs in this area (Figure 10). Soil vapor results were less than the commercial/industrial screening levels (presented in Table 12 of the RFI Work Plan; Appendix A).

Additional Assessment Conducted: One soil boring (F14-1) was completed by Northgate in this area to approximately 10 feet bgs (Figure 10; Table 1). Soil samples were collected from ground surface and at depths of 0.5, 1, 2.5, 5, and 10 feet bgs. Soil samples from ground surface, 0.5 and 1 feet bgs were analyzed for PCBs. The deeper samples were held pending results of the shallower samples. Soil samples from 0.5 and 2.5 feet bgs were

analyzed for TPH, VOCs and metals. The 5 and 10-foot samples were held pending results from the shallower samples.

Nested SVPs were installed at 5 and 10 feet bgs in boring F14-1, and soil vapor samples were collected and analyzed for VOCs.

4.14.1 TPH in Soil

TPH results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 2.

4.14.2 VOCs in Soil

VOC results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 3.

4.14.3 Metals in Soil

Metals results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels or the Southern California ambient arsenic screening level of 12 mg/kg as presented in Table 5.

4.14.4 PCBs in Soil

PCB results from the soil samples analyzed at 0 (ground surface), 0.5 and 1 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 6.

4.14.5 VOCs in Soil Vapor

VOC results for the 5 and 10-foot soil vapor samples at F14-1 were all below laboratory RLs and commercial/industrial screening levels using the default AFs 0.03, 0.001, and 0.0005 as presented in Table 7.

4.15 AOI 15 – Generating Units 1 and 2

Background: Units 1 and 2 were located in the northeastern half of the Site, east of Units 3 and 4, and were demolished in 2022 (Figure 4). Historically, SCE has considered that the former generating stations would remain generating stations into the foreseeable future and therefore the RFI focusses on accessible areas on Site with only minimal investigation of sub-slab and foundation areas on Site. The power blocks were constructed with multiple drains and sumps throughout the plants that collected any generated liquids or waste, piped those wastes to

oil-water separators and then to the basins included in the original court Stipulation. The sumps, drains, piping, pumps, and oil-water separators are appurtenances to the basins, which were closed in 2011 after being adequately characterized. Furthermore, Path Forward investigated Units 1 and 2 as noted in Section 2.4.3.3. Five borings (PFP-3 through PFP-7) were advanced to 4 feet bgs and 10 soil samples were collected and analyzed for TPH, VOCs, SVOCs/PAHs, PCBs, metals, and pH (Figure 5E). All soil results were less than the DTSC SLs and USEPA RSLs for commercial land use. In addition, the soil laboratory RLs were less than the commercial screening levels, with the exception of NDMA (presented in Table 23 of the RFI Work Plan; Appendix A). The commercial screening level for NDMA is 0.034 mg/kg and the laboratory RLs were slightly higher and ranged between 0.081 and 0.094 mg/kg. However, NDMA is not a COPC for the Site.

Two soil gas probes (PFP-3 and PFP-7) were installed by Path Forward to 5 feet bgs and soil vapor samples were analyzed for VOCs. VOC soil vapor (PFP-3 and PFP-7) results were less than the DTSC SLs and USEPA RSLs (presented in Table 24 of the RFI Work Plan; Appendix A). However, at PFP-07 the tracer gas compound (1,1-difluroethane [1,1-DFA]) was detected at a concentration of 200 µg/m^3, indicating a surface leak into the soil vapor sample. PCE was detected at a concentration of 46 µg/m^3. The remaining analytes were reported as not detected at varying reporting limits. The only analyte that had a reporting limit less than 20 µg/m^3 was vinyl chloride which had a reporting limit of 10 µg/m^3.

Additional Assessment Conducted: One 5-foot SVP (F15-1) was installed by Northgate and sampled for VOCs adjacent to former probe PFP-07 due to the detection of the tracer gas compound at a concentration of 200 ug/m^3 in PFP-07 (Figure 14).

As discussed in Section 2.4.4.5, Roux (on behalf of BTC III) collected composite samples of concrete in 2021 as part of demolition preparation activities at Units 1 and 2. Concrete in certain locations at Units 1 and 2 contained PCBs at concentrations greater than or equal to 50 mg/kg. As a result, Roux and BTC III began coordination with the USEPA TSCA group. Additional composite samples were collected in January and February 2022 to further characterize the extent of PCBs in this area and to support preparation of a (SICP). BTC III is continuing to work with both DTSC and USEPA to characterize and remediate PCB impacts at former Units 1 and 2 in accordance with the TSCA regulations. It should be noted that the continuing investigation of PCB-impacted material under USEPA's TSCA group at former Units 1 & 2 is considered separate from the scope of this RFI.

4.15.1 VOCs in Soil Vapor

VOC results for the 5-foot soil vapor sample at F15-1 were all below commercial/industrial screening levels using the default AFs 0.03, 0.001, and 0.005 as presented in Table 7.

4.16 AOI 16 – Warehouse

Background: The former warehouse was in the north central section of the Site, northeast of Units 3 and 4 (Figure 4). The following materials were historically stored in the warehouse: 50-pound drums of drierite (drying agent), air compressor, buckets of concrete repair, cans of aircraft hydraulic oil, 5-gallon pails and small containers of oil (Path Forward, 2020a). VOCs in soil vapor were detected above applicable commercial/industrial soil vapor screening levels east of the warehouse, adjacent to the maintenance shop (as presented in the Tables 13 and 14 of the RFI Work Plan [Appendix A] and discussed in Section 2.4.3.1 of this document). The warehouse building was demolished between August and October 2021, at the time when RFI sampling was being conducted.

Additional Assessment Conducted: Additional soil and soil vapor samples were collected in this area by Northgate and results are presented under the maintenance shop AOI 17 discussion in Section 4.17.

4.17 AOI 17 – Maintenance Shop

Background: The maintenance shop is directly east of the warehouse (Figure 11). Small containers of oil were stored in the maintenance shop. In October 2019, Ardent installed 12 SVPs (SS-1 through SS-3, MS-1 through MS-7, MS-8SS, and MS-9SS) at 5 feet bgs in the vicinity of the maintenance shop (AOI 17), the warehouse (AOI 16), the welding shop (AOI 18), and the septic pits (AOI 37) as shown on Figure 11. VOCs including PCE, BDCM, chloroform, 1,1-DCA, and vinyl chloride were detected in soil vapor at concentrations above the commercial/industrial screening levels when using the most conservative AF 0.03 (presented in Tables 13 and 14 of the RFI Work Plan; Appendix A). The maximum vinyl chloride concentration of 160 µg/m^3 reported from sample location SS-1 at 5 feet is equal to the DTSC-SL, assuming default AF 0.001, but was less than screening level at all other sampled locations. The remaining VOC detections were less than the soil vapor screening levels. The maintenance shop building was demolished between September and October 2021, at the time when RFI sampling was being conducted.

Additional Assessment Conducted: Nineteen (19) soil borings were originally proposed (SS-1B, MS-10 through MS-18 and SS-4 through SS-12) by Northgate in the vicinity of the maintenance shop, the warehouse, the welding shop, and the septic pits as part of the RFI Work Plan (Figure 11). Soil samples were collected from these borings at 0.5, 2.5, 5, 10, 15, and 20 feet bgs. Soil samples at 0.5, 2.5, and 5 feet bgs were analyzed for TPH and VOCs and selectively analyzed for metals. The deeper samples were held pending results of the shallower soil samples and soil vapor results. Soil samples at 0.5, 2.5, and 5 feet bgs from MS-10, MS-12, MS-14, MS-16, MS-17, SS-4, SS-5, and SS-10 through SS-12 were analyzed for metals.

The original 19 borings were converted into multi-depth SVPs. SVPs were set at 5, 10, and 20 feet bgs at each location. The "inner" SVPs (located closer to the maintenance shop) were sampled first for analysis of VOCs in soil vapor. "Outer" SVPs (located further from the maintenance shop) were sampled if inner soil vapor samples identified VOC concentrations exceeding commercial/industrial screening levels using the most conservative default AF 0.03. Based on initial soil vapor sampling results, 19 additional step-down and step-out borings with nested SVPs were installed to assess the nature and extent of VOCs in soil vapor generally identified below the maintenance shop, warehouse, and welding shop (Table 1). Increasing soil vapor concentrations with depth prompted investigation of deep soil vapor and groundwater in the area below the highest reported soil vapor concentrations. Additional RFI soil vapor sampling and collection of a grab groundwater sample were proposed by Northgate in a series of Tech Memos submitted to the DTSC (discussed in Section 3.2). SCE also elected to analyze collocated soil samples for VOCs where soil vapor results indicated VOCs above commercial/industrial screening levels using the most conservative default AF 0.03 (Table 1).

4.17.1 TPH in Soil

TPH results from the 62 soil samples analyzed at 0.5, 2.5, and 5 feet bgs from the original 19 soil borings (installed per the RFI Work Plan) were all less than the applicable commercial/industrial screening levels as presented in Table 2.

4.17.2 VOCs in Soil

VOC results from the 123 soil samples analyzed at various depths between 0.5 and 200 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 3.

4.17.3 Metals in Soil

Metals results from the 33 soil samples analyzed at 0.5, 2.5, and 5 feet bgs from select RFI borings (MS-10, MS-12, MS-14, MS-16, MS-17, SS-4, SS-5, SS-10, SS-11, and SS-12 per Table 1) were all less than the applicable commercial/industrial screening levels or the Southern California ambient arsenic screening level of 12 mg/kg as presented in Table 5.

4.17.4 VOCs in Soil Vapor

Based on the soil vapor results from the 19 original RFI sampling locations, 19 additional step-own and step-out borings were advanced with single and nested SVPs installed to assess the nature and extent of VOC concentrations in soil vapor generally located below the maintenance shop (AOI 17), warehouse (AOI 16), welding shop (AOI 18) and the septic pits (AOI 37; Table 1; Figure 11). Ultimately, 129 soil vapor samples were collected to characterize and delineate soil vapor concentrations identified in this general area of the Site. Two (2) VOCs, chloroform and carbon tetrachloride were detected in soil vapor exceeding commercial/industrial screening levels using the default AFs 0.001 and 0.0005. Screening level exceedances using the default AF 0.001 were identified at or below 20 feet bgs for chloroform and at or below 150 feet bgs for carbon tetrachloride (i.e., no exceedances reported in 5-foot SVPs when using default AF 0.001; Table 7). Chloroform and carbon tetrachloride concentration trends are discussed in the following paragraphs.

Chloroform concentrations were reported in 115 of 129 soil vapor samples collected and ranged from 1.1 to 1,900 µg/m^3. Concentrations of chloroform exceeded the RSL of 530 µg/m^3 using default AF 0.001 in soil vapor samples collected from soil boring locations MS-13/13B/13R, MS-21, MS-23, MS23B, and MS-23C between depths of 20 feet to 200 feet bgs. The maximum chloroform concentration of 1,900 µg/m^3 was identified in two soil vapor samples, MS-23B at 100 feet bgs and MS-23C at 150 feet bgs (Table 7). Chloroform concentrations were generally identified to increase with depth to 200 feet bgs, but then decreased between 200 and 400 feet bgs. As shown in Figures 11A and 11B, step-out and step-down soil vapor sampling was successful in laterally and vertically delineating chloroform concentrations in soil vapor. Chloroform concentration contouring at 5 feet and 20 feet bgs (Figures 11A and 11B) indicates the highest concentrations of chloroform are located near the former sodium hypochlorite tank (installed in 2007), south of the former Unit 3 Cooling Tower and were generally identified near areas with elevated carbon tetrachloride concentrations (Figure 11C and discussed below).

Carbon tetrachloride concentrations were reported in 96 of 129 soil vapor samples collected and ranged from 1.1 to 4,920 µg/m^3. Concentrations of carbon tetrachloride exceeded the RSL of 2,000 µg/m^3 using default AF 0.001 in four (4) soil vapor samples collected from soil boring

location MS-23C between 150 and 200 feet bgs. The maximum carbon tetrachloride concentration of 4,920 µg/m^3 was identified in MS-23C at 200 feet bgs (Table 7). Carbon tetrachloride concentrations were generally observed to increase with depth up to 200 feet bgs. In step-down sampling location MS-23D, carbon tetrachloride concentrations decreased significantly from 200 to 400 feet bgs. As shown in Figure 11C, step-out and step-down soil vapor sampling was successful in laterally and vertically delineating carbon tetrachloride concentrations in soil vapor. Carbon tetrachloride concentration contouring at 20 feet indicates the highest concentrations in the upper vadose zone are located northwest and west of the warehouse (Figure 11C) and were generally identified near areas with elevated chloroform concentrations (Figures 11A and 11B).

When utilizing the most conservative default AF 0.03, an additional 10 VOCs were identified to exceed a commercial/industrial screening level in at least one or more soil vapor sample. With the exception of PCE and 1,1-DCA, concentrations above screening levels (using default AF 0.03) for the remaining eight (8) VOCs were sporadic and did not display any consistent spatial distribution for contouring purposes. 1,1-DCA and PCE soil vapor concentrations are contoured in Figures 11D and E, respectively. The additional VOCs reported above commercial/industrial screening levels when using the most conservative default AF 0.03 are discussed in the following paragraphs.

Benzene concentrations were reported in 95 of 129 soil vapor samples and ranged from 0.6 to 19 µg/m^3 (Table 7). Two (2) samples, the 5-foot soil vapor sample at MS-13R (16.2 µg/m^3) and the 20-foot soil vapor sample at MS-29 (19 µg/m^3), slightly exceeded the DTSC-SL of 14 µg/m^3 using the most conservative default AF 0.03. All other reported benzene concentrations were below commercial/industrial screening levels. Based on the low number of soil vapor samples which only slightly exceed the commercial/screening level using the most conservative default AF 0.03 and the high density of soil vapor sampling conducted in this area of the Site, additional soil vapor sampling to further assess benzene concentrations was not proposed.

BDCM concentrations were reported in 40 of 129 soil vapor samples collected and ranged from 1.2 to 77.4 µg/m^3. Soil boring locations MS-10/10R, MS-23B, MS-23C, MS-28, and MS-32 contained one or more soil vapor samples exceeding the RSL of 11 µg/m^3 using the most conservative default AF 0.03. The maximum BDCM concentration of 77.4 µg/m^3 was identified in MS-23C at 150 feet bgs (Table 7). Elevated concentrations of BDCM were often observed alongside high concentrations of chloroform. According to the vertical profile presented by soil borings MS-23/23B/23C/23D, concentrations of BDCM were generally observed to increase with increasing depth up to approximately 200 feet bgs. A significant decrease in BDCM concentrations was observed between 200 and 250 feet bgs and BDCM was not detected above

the laboratory RL in samples collected from 250 to 400 feet bgs in soil boring MS-23D (Table 7).

Dibromochloromethane concentrations were reported in 18 of 129 soil vapor samples collected and ranged from 1.1 to 26.9 µg/m^3. Two (2) samples, the 60-foot and 80-foot soil vapor samples at MS-23B (26.9 and 22.4 µg/m^3, respectively) and the 5-foot soil vapor sample at MS-28 (24.3 µg/m^3), slightly exceeded the DTSC-SL of 19 µg/m^3 using the most conservative default AF 0.03. All other reported dibromochloromethane concentrations were below commercial/industrial screening levels (Table 7). Based on the low number of soil vapor samples which only slightly exceed the commercial/screening level using the most conservative default AF 0.03 and the high density of soil vapor sampling conducted in this area of the Site, additional soil vapor sampling to further assess dibromochloromethane concentrations was not proposed.

1,2-DCA concentrations were reported in 26 of 129 soil vapor samples collected and ranged from 1.5 to 23.4 µg/m^3. Concentrations of 1,2-DCA slightly exceeded the RSL of 16 µg/m^3 using the most conservative default AF 0.03 in one or more soil vapor samples from five (5) soil boring locations including MS-11, MS-12, MS-13B/13R, MS-17B, and MS-23C (Table 7). All other reported 1,2-DCA concentrations were below commercial/industrial screening levels. Based on the low number of soil vapor samples which only slightly exceed the commercial/screening level using the most conservative default AF 0.03 and the high density of soil vapor sampling conducted in this area of the Site, additional soil vapor sampling to further assess dibromochloromethane concentrations was not proposed.

Ethylbenzene concentrations were reported in 52 of 129 soil vapor samples and ranged from 2.1 to 319 µg/m^3. The 20-foot soil vapor sample at SS-10 (319 µg/m^3) was the only sample to exceed the RSL of 163 µg/m^3 using the most conservative default AF 0.03 (Table 7). All other reported ethylbenzene concentrations were below commercial/industrial screening levels. Based on the low number of soil vapor samples which exceed the commercial/screening level using the most conservative default AF 0.03 and the high density of soil vapor sampling conducted in this area of the Site, additional soil vapor sampling to further assess ethylbenzene concentrations was not proposed.

Naphthalene concentrations were reported in 3 of 129 soil vapor samples and ranged from 2.2 to 17 µg/m^3. The 10-foot soil vapor sample at SS-10 (17.3 µg/m^3) slightly exceeded the RSL of 12 µg/m^3 using the most conservative default AF 0.03 (Table 7). All other reported naphthalene concentrations were below commercial/industrial screening levels. Based on the low number of soil vapor samples which only slightly exceed the commercial/screening level using the most

conservative default AF 0.03 and the high density of soil vapor sampling conducted in this area of the Site, additional soil vapor sampling to further assess naphthalene concentrations was not proposed.

1,1,2-Trichloroethane concentrations were reported in 7 of 129 soil vapor samples and ranged from 3.5 to 34.6 µg/m^3. The 5-foot soil vapor sample at MS-17R (34.6 µg/m^3) slightly exceeded the RSL of 26 µg/m^3 using the most conservative default AF 0.03 (Table 7). All other reported 1,1,2-trichloroethane concentrations were below commercial/industrial screening levels. Based on the low number of soil vapor samples which only slightly exceed the commercial/screening level using the most conservative default AF 0.03 and the high density of soil vapor sampling conducted in this area of the Site, additional soil vapor sampling to further assess 1,1,2-trichloroethane concentrations was not proposed.

TCE concentrations were reported in 56 of 129 soil vapor samples and ranged from 1.1 to 194 µg/m^3. Two (2) samples, the collocated 20-foot soil vapor samples at MS-17/17R (194 and 139 µg/m^3), slightly exceeded the RSL of 100 µg/m^3 using the most conservative default AF 0.03 (Table 7). All other reported TCE concentrations were below commercial/industrial screening levels. Based on the low number of soil vapor samples which only slightly exceed the commercial/screening level using the most conservative default AF 0.03 and the high density of soil vapor sampling conducted in this area of the Site, additional soil vapor sampling to further assess TCE concentrations was not proposed.

PCE concentrations were reported in 119 of 129 soil vapor samples collected and ranged from 1.8 to 1,900 µg/m^3. One or more soil vapor samples from 16 soil borings contained PCE concentrations exceeding the DTSC-SL of 67 µg/m^3 using the most conservative default AF 0.03. The maximum PCE concentration of 1,900 µg/m^3 was identified in MS-17 at 10 feet bgs (Table 7). As shown in Figure 11D, step-out and step-down soil vapor sampling was successful in laterally and vertically delineating PCE concentrations in soil vapor. PCE concentration contouring at 5 bgs (Figure 11D) indicates the highest concentrations of shallow PCE are located below the maintenance shop and welding shop (AOI 18) and were generally identified near areas with elevated 1,1-DCA concentrations (Figure 11E). The spatial distribution of PCE shown in Figure 11D indicates the area below the maintenance shop and welding shop (AOI 18) as a “hot spot” and indicates that releases of PCE-based products likely occurred in this area. The vertical profile of soil vapor concentrations at soil borings MS-17/17B/17R (the center of the soil vapor “hot spot” for PCE) illustrates a general increasing trend in 1,1-DCA concentrations with increasing depth until approximately 10 feet bgs. From 10 to 60 feet bgs, 1,1-DCA concentrations were observed to consistently decline with depth (Figure 11E).

1,1-DCA concentrations were reported in 102 of 129 soil vapor samples collected and ranged from 1.1 to 3,290 µg/m^3. One or more soil vapor samples from 10 soil borings contained 1,1-DCA concentrations exceeding the RSL of 257 µg/m^3 using the most conservative default AF 0.03. The maximum 1,1-DCA concentration of 3,290 µg/m^3 was identified in MS-17 at 20 feet bgs (Table 7). As shown in Figure 11E, step-out and step-down soil vapor sampling was successful in laterally and vertically delineating 1,1-DCA concentrations in soil vapor. 1,1-DCA concentration contouring at 5 bgs (Figure 11E) indicates the highest concentrations of shallow 1,1-DCA are located by the maintenance shop and welding shop (AOI 18) and were generally identified near areas with elevated PCE concentrations (Figure 11D). The spatial distribution of 1,1-DCA shown in Figure 11D indicates the area below the maintenance shop and welding shop (AOI 18) as a "hot spot" and indicates that releases of 1,1-DCA-based products likely occurred in this area. The vertical profile of soil vapor concentrations at soil borings MS-17/17B/17R (the center of the soil vapor "hot spot" for 1,1-DCA) illustrates a general increasing trend in 1,1-DCA concentrations with increasing depth until approximately 20 feet bgs. From 20 to 60 feet bgs, 1,1-DCA concentrations were observed to consistently decline with increasing depth (Figure 11E). At the request of the DTSC, a soil vapor temporal variation assessment was conducted at select SVPs which defined various areas of the chloroform, carbon tetrachloride, PCE, and 1,1-DCA soil vapor plumes. Results of seasonal soil vapor sampling indicate temporal variability in soil vapor is considered low at the Site (see Section 5.2.5 for additional details regarding the soil vapor temporal variation assessment).

Tracer gas compounds were reported in three of the 5-foot soil vapor samples from locations MS-21, SS-7, and SS-12, prompting resampling or the installation and sampling of replacement SVPs. Resampling and/or replacement probe soil vapor sampling results did not identify tracer gas compounds above laboratory detection limits. Soil vapor samples where tracer gas was detected may not be representative of subsurface conditions due to ambient air intrusion in the sample.

4.17.5 VOCs in Groundwater

Based on the observation that some VOC concentrations were increasing with depth up to 200 feet bgs (namely chloroform and carbon tetrachloride), DTSC recommended that groundwater conditions in the vicinity of the warehouse, maintenance shop, welding shop, and septic pits be assessed. Step-down boring MS-23D was advanced in the area identified where the highest chloroform concentrations in soil vapor were observed (below the former sodium hypochlorite tank, north of the warehouse and maintenance shop [Figure 11]). The deep soil boring MS-23D was advanced in general accordance with the DTSC-approved Tech Memo-style work plan (Northgate, 2022d). Groundwater was encountered at approximately 453 feet

bgs during drilling. Collection of a grab groundwater sample via the proposed SimulProbe sampler was unsuccessful after multiple attempts. DTSC was notified of the challenges encountered during groundwater sample collection and DTSC approved the installation of a temporary well and collection of a grab groundwater sample via bladder pump (email correspondence included in Appendix B). A schematic of the temporary well construction is included with the soil boring log for MS-23D in Appendix E.

Collection of groundwater was successful using the bladder pump. VOC results from the grab groundwater sample collected at approximately 460 feet bgs were all less than the applicable California MCLs as presented in Table 8. Based on the results of grab groundwater sampling, in accordance with the DTSC-approved Tech Memo, a permanent groundwater monitoring well was not installed in soil boring MS-23D.

4.18 AOI 18 – Welding Shop

Background: The welding shop was located directly east of the maintenance shop (Figure 10). As noted under the maintenance shop, twelve SVPs were previously installed at 5 feet bgs in the vicinity of the maintenance shop, the warehouse, the welding shop, and the septic pits as shown on Figure 11. VOCs were detected in soil vapor at concentrations above the commercial soil vapor screening level using the most conservative default AF 0.03. The welding shop was demolished between September and October 2021, at the time when RFI sampling was being conducted.

Additional Assessment Conducted: Additional soil and soil vapor samples were collected in this area and results are presented under the maintenance shop AOI 17 discussion in Section 4.17.

4.19 AOI 19 – Unit 3 Cooling Towers

Background: The former cooling towers associated with Unit 3 were located adjacent to the northern property boundary in the north central section of the Site, directly north of the warehouse (Figure 4). In October 2019, Ardent advanced eight soil borings (CT3-1 through CT3-8) adjacent to the cooling tower (Figure 5E). Soil samples were collected at 0.5 feet bgs from each of the eight borings and analyzed for metals (presented in Table 5 of the RFI Work Plan; Appendix A). Arsenic was detected in soil from two borings (CT3-2 and CT3-6) at concentrations above the Southern California ambient arsenic screening level of 12 mg/kg. Additional soil samples from CT3-2 and CT3-6 were collected at 1.5 and 3 feet bgs and analyzed for arsenic. Arsenic concentrations in all the deeper soil samples were less than the Southern California ambient arsenic screening level of 12 mg/kg. In addition,

all the laboratory RLs for the remaining metals were less than the commercial screening levels. The Unit 3 cooling towers were demolished in the first half of 2021, prior to commencement of RFI sampling activities.

Assessment Completed: Shallow arsenic soil contamination has been identified and delineated and additional sampling as part of the RFI was not conducted. On October 6, 2021, removal of arsenic-impacted soil above 12 mg/kg in the vicinity of Cooling Tower 3 was conducted under a DTSC-approved SMP by BTC III's environmental consultants at two (2) locations (CT3-2 and CTS-6, Roux, 2021b). Additional details regarding arsenic delineation and subsequent soil excavation activities are included in Section 2.4.4.4.

4.20 AOI 20 – Capped Natural Gas Easement

Background: The capped natural gas easement is in the eastern section of the Site, directly south of the cooling tower makeup water pond (Figure 4).

Assessment Completed: There is no historic use of hazardous substances in this area; therefore, sampling was not proposed as part of the RFI Work Plan.

4.21 AOI 21 – Cooling Tower Makeup Water Pond

Background: The cooling tower makeup water pond was located in the far northeastern area of the Site (Figure 12). It is currently used to store stormwater. Previously, it was used to store water from three groundwater production wells, Colorado River water, and reclaimed water. In the southwest corner of the pond there was a 570-gallon diesel fuel AST. The cooling tower makeup water pond was demolished in 2022.

A soil boring, F21-1, was proposed as part of the RFI Work Plan to investigate the AST, but this boring and associated samples were removed from the scope of the RFI with email approval from DTSC on August 16, 2021 (DTSC, 2021b). In the email DTSC noted that the former diesel AST would be addressed by the current property owner through their existing SMP since the installation date of the diesel AST was 2011, which is after SCE's sale of the property in 1998 (Table 1; Figure 12).

Additional Assessment Conducted: During Northgate's Site walk conducted on August 6, 2021, to mark out the proposed RFI soil borings, two additional small transformers were identified just west of the cooling tower makeup water pond (Figure 12). SCE elected to advance two borings adjacent to each small transformer (F21-T1-1, F21-T1-2, F21-T2-1, and F21-T2-2) and analyze soil samples in accordance with the typical transformer assessment proposed in the RFI Work Plan (Table 1). Soil samples were collected at

ground surface and at depths of 0.5, 1, and 2.5 feet bgs. Samples from surface, 0.5, and 1 feet bgs were analyzed for PCBs with the deeper samples on hold pending shallower results. Samples from 0.5 and 2.5 feet were collected for TPH analysis. Per the RFI Work Plan, any concentration of TPH carbon ranges above 100 mg/kg, would trigger analysis of VOCs in soil.

4.21.1 PCBs in Soil

PCB results from the soil samples analyzed at 0 (ground surface), 0.5 and 1 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 6.

4.21.2 TPH in Soil

TPH results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than 100 mg/kg (threshold for contingency VOC analysis) and less than the applicable commercial/industrial screening levels as presented in Table 2. Based on the results, soil samples were not analyzed for VOCs per the RFI Work Plan.

4.22 AOI 22 – Construction and Operations Waste

Background: Construction and operations waste is located in the northwestern section of the Site (Figure 4). This area is also referred to as Landfill I. In October 2019, seven test pits (LFI-1 through LFI-7) and eight soil samples were collected by Ardent from Landfill I between the depths of 3 and 7 feet bgs (Figure 5B). Soil samples were analyzed for TPH, VOCs, and metals (presented in Table 9 of the RFI Work Plan; Appendix A). TPH and VOC soil results were less than commercial screening levels. Arsenic (LFI-1 and LFI-3) and lead (LFI-3) soil results exceeded commercial/industrial screening levels. The remaining metals soil results were less than commercial/industrial screening levels. ERM removed approximately 6,445 tons of arsenic and lead-impacted soil by sample locations LFI-1 and LFI-3 (as previously described in Section 4.4.3 of the RFI Work Plan) and as shown on Figure 5E. A total of 87 confirmation soil samples (43 base samples and 44 sidewall samples) were collected to verify the remaining soil beneath and around the excavation did not contain arsenic and lead concentrations above applicable commercial screening levels (Tables 17 through 19 of the RFI Work Plan; Appendix A). In addition, all the laboratory RLs were less than the commercial/industrial screening levels.

Assessment Completed: This area has been adequately investigated and remediated; therefore, sampling was not proposed in the RFI Work Plan.

4.23 AOI 23 – Auxiliary Transformers

Background: There were two auxiliary transformers located onsite, one was located directly south of Units 1 and 2 cooling towers and the second one was located south of Units 3 and 4 (Figure 4). Between October 28, 2020, and November 2, 2020, Northgate advanced eight (8) soil borings adjacent to these transformers (HA12 through HA15 and HA18 through HA21 as shown on Figures 5B and 5D, respectively). Soil samples were analyzed for TPH (at depths of 0.5 and 2.5 feet bgs) and PCBs (at ground surface, 0.5- and 1-foot bgs) and all soil results were less than the applicable commercial/industrial screening levels (Tables 20 and 21 of the RFI Work Plan in Appendix A). In addition, the laboratory RLs were all less than the commercial/industrial screening levels.

Assessment Completed: Previous sampling indicated no concerns in this area; therefore, sampling was not proposed in the RFI Work Plan.

4.24 AOI 24 – Sulfuric Acid Tanks

Background: There were two sulfuric acid tanks on Site, one was located directly south of cooling towers for Unit 3 and the second tank was located directly south of the cooling towers for Unit 4 (Figure 4). Between October 28, 2020, and November 2, 2020, Northgate advanced eight (8) soil borings adjacent to these tanks (HA1 through HA4 and HA5 through HA7, Figure 13). Soil samples from 0.5 and 2.5 feet bgs were analyzed for pH, which ranged from 5.69 to 9.65 (Table 22 of the RFI Work Plan; Appendix A). Soil samples were not analyzed for metals.

Additional Assessment Conducted: One boring adjacent to each tank (F24-1 and F24-2) was advanced to 5 feet bgs by Northgate (Figure 13). Soil samples were collected at depths of 0.5, 2.5, and 5 feet bgs. Soil samples from 0.5 and 2.5 feet bgs were analyzed for metals. The deeper samples were held pending results of the shallower samples.

4.24.1 Metals in Soil

Metals results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels or the Southern California ambient arsenic screening level of 12 mg/kg as presented in Table 5.

4.25 AOI 25 – Units 3 and 4 Transformers

Background: Two main transformers and one smaller transformer were located on the south side of Units 3 and 4 (Figure 4). The transformers were originally constructed on concrete

containment pads, but the two main transformers were removed prior to conducting the RFI sampling in September 2021.

Additional Assessment Conducted: Four soil borings were advanced by Northgate at each of the three transformer locations (T3-4-1 through T3-4-12) within the concrete pad, adjacent to the transformer fill port and any areas of staining, if observed (Figure 14). During the Site walk conducted on August 6, 2021, to mark out the proposed RFI soil borings, two additional small transformers were identified in the area between Units 3 and 4 (Figure 14). SCE elected to advance two borings adjacent to each small transformer (four additional soil borings total) and analyze soil samples in accordance with the typical transformer assessment proposed in the RFI Work Plan (Table 1). Soil samples at all transformer locations were collected at ground surface and at depths of 0.5, 1, and 2.5 feet bgs. Samples from surface, 0.5, and 1 feet bgs were analyzed for PCBs with the deeper samples on hold pending shallower results. Samples from 0.5 and 2.5 feet were collected for TPH analysis. Per the RFI Work Plan, any concentration of TPH carbon ranges above 100 mg/kg, would trigger analysis of VOCs in soil.

Additional step-out soil sampling was required based on concentrations of TPH and PCB concentrations in soil. Details regarding the step-out sampling are discussed in the following sections.

4.25.1 TPH in Soil

TPH concentrations exceeding the TPH-d (C_{13}-C_{22}) commercial/industrial screening levels were identified in the 0.5-foot samples at T3-4-4 and T3-4-5 (Table 2). Step-out borings and samples were successfully conducted to laterally delineate TPH to the southwest and southeast of T3-4-4 (Figure 14A) and northwest and southwest of T3-4-5 (Figure 14B). Remaining TPH results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 2.

TPH carbon range concentrations exceeded the established threshold of 100 mg/kg in seven (7) soil samples collected from T3-4-2, T3-4-4, T3-4-5, T3-4-14, and T3-4-15 prompting the analysis of VOCs at these locations (VOCs results are discussed in Section 4.25.2).

Northgate provided soil analytical information, associated figures, and soil boring location information to BTC III's consultants (Roux and ERM) and noted that concentrations of TPH were identified above commercial/industrial screening levels in this area of the Site. As described in Section 2.4.4.5, soil impacted by TPH above commercial/industrial screening levels was subsequently removed by Roux and ERM, under the SMP for the Site. Additional

information regarding the removal of TPH-impacted soils at Unit 3 and 4 transformers (AOI 25) is included in Section 2.4.4.5.

4.25.2 VOCs in Soil

VOC results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 3.

4.25.3 PCBs in Soil

PCB concentrations were identified above commercial/industrial screening levels in soil boring T3-4-2 at a depth of up to 1 feet bgs with a maximum Aroclor-1254 concentration of 1.7 mg/kg reported in surface sample at this location (Table 6 and Figure 14A). The deeper 2.5-foot sample at T3-4-2 was analyzed for PCBs and two (2) step-out soil borings were advanced to the northwest and northeast of T3-4-2 to delineate concentrations of Aroclor-1254 above commercial industrial screening levels (Figure 14A). PCB concentrations in the step-out soil samples and the remaining soil samples collected around the transformer pads were below commercial/industrial screening levels.

Northgate provided soil analytical information, associated figures, and soil boring location information to BTC III's consultants (Roux and ERM) and noted that concentrations of PCBs in soil above 1 mg/kg may require special handling and disposal in accordance with USEPA regulations. As described in Section 2.4.4.5, soil impacted by PCBs above commercial/industrial screening levels was subsequently removed by Roux and ERM, under the SMP for the Site. Additional information regarding the removal of PCB-impacted soils at Unit 3 and 4 transformers (AOI 25) is included in Section 2.4.4.5.

4.26 AOI 26 – Units 1 and 2 Transformers

Background: Eight (8) transformers were located on the south side of Units 1 and 2 (Figure 4). The transformers had been removed prior to RFI sampling activities in September 2021, but their concrete pads were still in place when RFI sampling for this AOI took place.

Additional Assessment Conducted: Four (4) soil borings were advanced by Northgate at each of the eight (8) transformers (T1-2-1 through T1-2-32) within the concrete pad, adjacent to the fill port and any areas of staining, if observed (Figure 14). Soil samples were collected at ground surface and at depths of 0.5, 1, and 2.5 feet bgs. The samples from surface, 0.5, and 1 feet bgs were analyzed for PCBs and the deeper sample was held pending results of the shallower samples. Samples from 0.5 and 2.5 feet were collected for TPH analysis. If TPH was detected in

any of the carbon ranges above 100 mg/kg, the sample from the corresponding depth were analyzed for VOCs.

4.26.1 TPH in Soil

TPH results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 2.

TPH carbon range concentrations (including results for the aromatic carbon ranges not shown in Table 2) exceeded the established threshold of 100 mg/kg in nine (9) soil samples collected from T1-2-13, T1-2-14, T1-2-15, T1-2-16, T1-2-19, T1-2-22, T1-2-26, and T1-2-32 prompting the analysis of VOCs at these locations (VOCs results are discussed in Section 4.26.2).

4.26.2 VOCs in Soil

VOC results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 3.

4.26.3 PCBs in Soil

PCB results from the soil samples analyzed at 0 (first soil encountered), 0.5 and 1 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 6.

4.27 AOI 27 – Acid Caustic Tank Area

Background: The acid caustic tank area was in the southern area of the Site, directly south of the decommissioned RO equipment and basin (Figure 10). The acid caustic tank was present during the time of RFI sampling but was later removed in 2022.

Additional Investigation Conducted: One soil boring was advanced by Northgate in the acid caustic tank area (FS-3, Figure 10). Soil samples were collected at 0.5, 2.5, and 5 feet bgs. Soil samples collected at 0.5 and 2.5 feet bgs were analyzed for metals and pH. An additional sample collected at 5 feet bgs was held for additional analyses pending the results of the shallower samples.

4.27.1 Metals in Soil

Metals results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels or the Southern California ambient arsenic screening level of 12 mg/kg as presented in Table 5.

4.27.2 pH in Soil

Results for pH in soil samples ranged from 9.7 to 10.3 standard units (Table 5). There are no applicable soil screening levels for pH.

4.28 AOI 28 – Well Water Storage Tank

Background: The well water storage tank was located in the eastern section of the Site, north of Units 1 and 2 (Figure 4).

Assessment Completed: No historic use of hazardous substances in this area; therefore, sampling was not proposed.

4.29 AOI 29 – Distilled Water Tanks

Background: There were four distilled water tanks located in the eastern section of the Site; three were located west of Units 1 and 2 and one is located east of Units 1 and 2 (Figure 4).

Assessment Completed: No historic use of hazardous substances in this area; therefore, sampling was not proposed.

4.30 AOI 30 – Cooling Water Tank

Background: The cooling water tower was located in the central section of the Site, directly north of Units 3 and 4 (Figure 4).

Assessment Completed: No historic use of hazardous substances in this area; therefore, sampling was not proposed.

4.31 AOI 31 – Fire House (foam)

Background: The fire house was located in the southern area of the Site, directly north of the decommissioned RO equipment and basin (Figure 4). At the fire house, foam made from animal byproducts, specifically animal blood, was used and not chemical foam. Therefore, the fire house should not be a source of per- and polyfluoroalkyl substances.

Assessment Completed: No historic use of hazardous substances in this area; therefore, sampling was not proposed.

4.32 AOI 32 – Fire Water Pumps

Background: The fire water pumps were located immediately north of the administration building (Figure 4).

Assessment Completed: No historic use of hazardous substances in this area; therefore, sampling was not proposed.

4.33 AOI 33 – Sludge Drainage Area

Background: The sludge drainage area was in the western portion of the Site immediately south of the Units 1 and 2 cooling towers and immediately north of the former railroad spur (Figure 5B). Historically, when the cooling towers were cleaned the sludge was deposited in this area. In October 2019, ten borings (SDA-1 through SDA-10) were advanced in this area (Figure 5B). Soil samples were collected at 0.5 feet bgs and analyzed for metals. All metal soil results were less than the commercial/industrial screening levels or less than background concentrations for arsenic (Table 4 of the RFI Work Plan; Appendix A). In addition, all the laboratory RLs were less than the commercial/industrial screening levels.

Assessment Completed: No concerns were noted in this area; therefore, additional sampling was not proposed.

4.34 AOI 34 – Northern Fill

Background: The northern fill is in the northwestern area of the Site north of Cooling Towers 1 and 2 (Figure 5B). Excavated soil during Site construction was deposited here. Ardent also referred to this area as Landfill II. In October 2019, 10 test pits (LFII-1 through LFII-10) and 10 soil samples were collected by Ardent from this area between the depths of 2 and 7 feet bgs (Figure 5B). Soil samples were analyzed for TPH, VOCs, and metals. TPH, VOCs, and metals soil results were all less than commercial/industrial screening levels (Table 10 of the RFI Work Plan; Appendix A). In addition, all the laboratory RLs were less than the commercial/industrial screening levels.

Assessment Completed: The northern fill has been adequately investigated and there were no concerns noted in this area; therefore, additional sampling was not proposed.

4.35 AOI 35 – Sodium Hypochlorite Tanks

Background: There were three sodium hypochlorite tanks onsite, one was in the northern central area of the Site, directly south of the cooling towers for Unit 4, the second tank was

located in the northeastern area of the Site, directly west of the cooling tower makeup water pond, and the third tank was in the western area of the Site, directly south of the cooling towers for Units 1 and 2 (Figure 12 and 13). Between October 28, 2020 and November 2, 2020, Northgate investigated the north central and western sodium hypochlorite tanks. One boring (HA8) was advanced southeast of the north central sodium hypochlorite tank, and three borings (HA9 through HA11) were advanced adjacent to the western tank (Figure 12). Soil samples at 0.5 and 2.5 feet bgs were analyzed for pH, which ranged from 9.42 to 10.1 (Table 22 of the RFI Work Plan; Appendix A). Soil samples were not analyzed for metals.

Additional Assessment Conducted: During the initial stages of the RFI sampling activities in August 2021, a fourth sodium hypochlorite tank was identified south of the Unit 3 cooling tower (Figure 11). Based on a review of historical aerial imagery, this fourth sodium hypochlorite tank was estimated to have been installed in 2007, after SCE sold the property (The Site was sold to Reliant Energy, Inc. in 1998). SCE elected to collect soil samples near this tank to be consistent with the investigation being conducted at other onsite sodium hypochlorite tanks despite this feature having been installed and used by other parties after the sale of the property. Soil samples at the fourth sodium hypochlorite tank were accommodated during hand auger clearance at soil vapor step-down location MS-23C (part of the soil vapor investigation at the maintenance shop area including AOIs 16, 17, and 18; Figure 11).

One boring adjacent to each tank (F35-1, F35-2, F35-3, and MS-23C) was advanced to 5 feet bgs by Northgate (Figure 12 and 13). Soil samples were collected at depths of 0.5, 2.5, and 5 feet bgs. Soil samples from 0.5 and 2.5 feet bgs were analyzed for metals and pH at F35-1 and MS-23C, which were located at tanks not previously investigated. Soil samples from 0.5 and 2.5 feet bgs were analyzed for metals at F35-2 and F35-3. The deeper samples were held pending results of the shallower samples.

4.35.1 Metals in Soil

Metals results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels or the Southern California ambient arsenic screening level of 12 mg/kg as presented in Table 5.

4.35.2 pH in Soil

Results for pH in soil samples collected at F35-1 ranged from 7.3 to 7.4 standard units and pH results in soil samples collected at MS-23C ranged from 9.3 to 11.6 standard units (Table 5). There are no applicable soil screening levels for pH.

4.36 AOI 36 – Former Hazardous Waste Area

Background: The former hazardous waste area was located in the southwestern section of the Site, southwest of Units 3 and 4 (Figure 10). Drums and cans of oily waste were stored in this area. In October 2019, Ardent collected and analyzed four soil vapor samples (FHW-1 through FHW-4) for VOCs in this area (Figure 10). Soil vapor results were less than the commercial/industrial screening levels (Table 11 of the RFI Work Plan; Appendix A).

Additional Investigation Conducted: Three (3) soil borings (F36-1 through F36-3) were advanced by Northgate in this area to approximately 10 feet bgs (Figure 10). Soil samples were collected from ground surface and at depths of 0.5, 1, 2.5, 5, and 10 feet bgs in each boring. Soil samples from ground surface, 0.5 and 1 feet bgs were analyzed for PCBs. The deeper samples were held pending results of the shallower samples. Soil samples from 0.5 and 2.5 feet bgs were analyzed for TPH, VOCs and metals. The 5 and 10-foot samples were held pending results from the shallower samples.

SVPs were installed at 5 and 10 feet bgs in each boring, and soil vapor samples were collected and analyzed for VOCs.

4.36.1 TPH in Soil

TPH results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 2.

4.36.2 VOCs in Soil

VOC results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 3.

4.36.3 Metals in Soil

Metals results from the soil samples analyzed at 0.5 and 2.5 feet bgs were all less than the applicable commercial/industrial screening levels or the Southern California ambient arsenic screening level of 12 mg/kg as presented in Table 5.

4.36.4 PCBs in Soil

PCB results from the soil samples analyzed at 0 (first soil encountered), 0.5 and 1 feet bgs were all less than the applicable commercial/industrial screening levels as presented in Table 6.

4.36.5 VOCs in Soil Vapor

VOC results for the 5 and 10-foot soil vapor samples at F36-1, F36-2, and F36-3 were all below commercial/industrial screening levels using default AFs 0.03, 0.001, and 0.0005 as presented in Table 7. It should be noted that tracer gas was identified in the 10-foot sample from F36-3 on both occasions when the SVP was sampled. Soil vapor results at F36-3 at 10 feet may not be representative of subsurface conditions due to the presence of ambient air in the samples. Given that VOC concentrations were not reported above commercial/industrial screening levels or laboratory RLs in the 5-foot probe at this location nor within the four (4) other soil vapor samples collected at this AOI, the qualified data from F36-3-10 due to tracer gas detection is not considered a significant data gap. Additional soil vapor sample collection at this AOI is not warranted.

4.37 AOI 37 – Septic Pits

Background: The septic pits are in the eastern section of the Site, east of the maintenance shop (Figure 11). The septic pits consist of five inline 3,000-gallon seepage pits. As described in Section 4.17 for the maintenance shop, 12 SVPs were previously installed at 5 feet bgs in the vicinity of the maintenance shop, the warehouse, the welding shop, and the septic pits as shown on Figure 11. VOCs were detected in soil vapor at concentrations above the commercial/industrial screening levels when using default AF 0.03 (Tables 13 and 14 of the RFI Work Plan; Appendix A).

Additional Assessment Conducted: Additional soil and soil vapor samples were collected by Northgate in this area and results are presented under the maintenance shop AOI 17 discussion in Section 4.17.

4.38 AOI 38 – Flumes

Background: The former flumes correspond to three (3) concrete-lined, channel features used to recirculate the water from the cooling towers to the generating units (Figure 4). The flumes were demolished and the general area regraded in 2022. For ease of reference, Flume 1/2 was located south of the Units 1 and 2 cooling towers, Flume 3 was located south of the Unit 3 cooling tower, and Flume 4 was located south of the Unit 4 cooling tower (Figure 4). In October 2019 and prior to demolition operations, Ardent advanced five (5) soil borings (F1/2-1 through F1/2-5) within Flume 1/2, four (4) soil borings (F4-1 through F4-4) within Flume 4 (Figures 5B and 5C), and four (4) soil borings (F3-1 through F3-4) within Flume 3 (Figures 5E and 15). According to Ardent's written scope of services documented in October 2019, soil samples within the concrete-lined flumes were collected at the concrete bottom of each flume (note that flume bottom was located approximately 8 feet lower than surrounding grade) by advancing borings within the "visual expansion joints" and collecting soil at 0.5 and 1.5 below the flume bottom (Figure 15; Ardent, 2019). Soil samples were collected from each boring at 0.5 and 1.5 feet below the concrete flume bottom and select samples were analyzed for metals.

Metals results in all the soil samples were less than the commercial screening levels with the exception of a thallium concentration of 14.9 mg/kg in the 0.5-foot sample at F3-1 which slightly exceeded the commercial RSL of 12 mg/kg (Table 15 of the RFI Work Plan; Appendix A). The thallium concentration for the 1.5-foot sample at F3-1 was less than the commercial RSL and was reported as 2.43 mg/kg. Given that the thallium concentration at sample location F3-1 dropped below the commercial/industrial screening level at 1.5 feet bgs and the linear nature of the concrete-lined channel with expansion joints, the lateral and vertical migration potential thallium is significantly limited. As shown in Figure 15, thallium concentrations in shallow soil in the general vicinity of Flume 3 were not reported above commercial/industrial screening levels.

Assessment Completed: The flumes have been adequately characterized and there were no other concerns noted in this area; therefore, additional sampling was not proposed. Furthermore, this area has been disturbed as a result of demolition activities and additional undisturbed sampling beneath the former flumes is not feasible.

4.39 Overall Summary of RFI Soil Results

An overall summary of the RFI soil results is provided below.

SUMMARY OF RFI SOIL RESULTS TO SCREENING COMPARISON DATA			
Analysis	**All Detected Results Below Commercial/ Industrial Screening Levels**	**All Non-Detected Results Below Commercial/ Industrial Screening Levels**	**Comment**
TPH-g C_4-C_{12}	Yes	Yes	
TPH-d C_{13}-C_{22}	**All but two (2) shallow samples, which were delineated and removed at AOI 25**	Yes	
TPH-mo C_{23}-C_{32}	Yes	Yes	
VOCs	Yes	Yes	
SVOCs	Yes	All RLs below screening levels except for 3,3'-Dichlorobenzidine, Benzidine, bis(2-Chloroethyl)ether, Dibenz(a,h)anthracene, N-Nitroso-di-N-propylamine, and Pentachlorophenol which are not expected at the Site	Per email communication on 9/21/21 with DTSC, reporting to RLs was acceptable as long as detections above MDLs are reported with "J" flags
Metals	**All except arsenic which was delineated at the Cooling Towers for Units 1 and 2 (AOI 10) and removed (see Section 4.10)**	Yes	Southern California ambient arsenic screening level of 12 mg/kg used in RFI for comparison
pH	No screening levels established	All were detected – pH ranged from 7.3 to 11.6 standard units	
PCBs	**All but six (6) shallow samples which were delineated and removed at AOI 6 and AOI 25**	Yes	

4.40 Overall Summary of RFI Soil Vapor Analytical Results

Soil vapor analytical results for AOIs 1, 5, 6, 14, 17, and 36 are discussed in the representative Sections above. A majority of the RFI soil vapor data were collected in August and September 2021 with some additional delineation sampling conducted between October 2021 and January 2022. In April 2022, select soil vapor locations were resampled to assess potential seasonal and temporal variation in soil vapor concentrations at the Site (see Section 5.2.5 for additional details). The RSLs and DTSC-SLs, used for comparison to soil vapor sample results, have been developed for indoor air concentrations; therefore, RSLs and DTSC-SLs for soil vapor are calculated using a default AF. As discussed in Section 1.2.4, default AFs 0.0005 (future commercial; DTSC, 2011), 0.001 (current commercial; DTSC, 2011), and 0.03 (initial site screening purposes; DTSC and CWRCB, 2023) were utilized in the preparation of this RFI to compare soil vapor data to commercial/industrial screening levels in indoor air (Table 7).

As illustrated in Table 7, the application of different default AFs results in a wide range of commercial/industrial screening levels. It is important for stakeholders to examine multiple lines of evidence to support risk management decisions where considerable uncertainty exists. Site-specific factors along with information relating to the derivation and strengths/weaknesses of the default AFs are considered below to support the decision-making process for the Site.

Site-Specific Factors for Consideration:

- Currently there are no buildings constructed at the Site.
- The Site is located in a commercial/industrial area and is planned for grading and redevelopment as a commercial/industrial facility with four (4) buildings and associated parking for vehicles and truck trailers.
- According to the Draft Master Site Plan included in the HHSE, the four (4) proposed onsite buildings will range in size from approximately 133,500 to 658,000 square feet (Roux, 2023b).
- Slab-on-grade construction with average slab thicknesses ranging from 8 to 10 inches is anticipated for the proposed buildings at the Site.
- Each of the proposed buildings includes planned warehouse and office spaces.
- According to Site owner representatives, ventilation plans are not finalized for the proposed buildings at this time; however, areas designated for office spaces will likely include roof-top heating, ventilation, and air conditioning (HVAC) units and warehouse spaces will likely be equipped with exhaust fans and air intake vents.
- Depth to groundwater at the Site is greater than 400 feet bgs.

- Based on groundwater samples collected at the Site, groundwater off-gassing does not appear to be a significant source of the vapors identified in the vadose zone below the Site.
- Significant concentrations of VOCs have not been identified in soil samples at the Site.
- Potential sources of continuing contamination (e.g., chemical storage tanks, pipelines, hazardous waste storage areas, transformers, retention basins, etc.) have all been removed from the Site.

Default AF Information for Consideration:

- The most conservative default AF 0.03 represents the 95th percentile value for observed AFs reported at sites contained in EPA's vapor intrusion database up to 2010 (EPA, 2012). The default AF 0.03 was developed utilizing chlorinated solvent sub-slab vapor and indoor air data. The RFI data set represents subsurface soil vapor collected between 5 feet and 400 feet bgs and application of an attenuation based on sub-slab to indoor air data may represent an overconservative assumption.
- The most conservative default AF 0.03 has nationwide acceptance, but very few California sites were included in the USEPA database which utilized to derive this AF. Many of the states included in the 2012 EPA study (including Colorado, New York, Montana, and Connecticut) do not exhibit the typical climatic conditions or building types commonly found in California. Sites in California may exhibit higher soil gas attenuation between subsurface vapor and indoor air because buildings in California generally do not include basements and are not as insulated as buildings constructed for colder climates. For reference, 75 percent of residential homes in the USEPA database have basements, but only 5 percent of homes in California have basements.
- One recent, peer-reviewed study assessed pairs of indoor air with sub-slab and soil vapor data collected from sites in California and found that the California dataset yielded a 95th percentile sub-slab AF of 0.005 and a 95th percentile soil vapor AF of 0.0009 (Abbasi et al., 2022). The empirically derived soil vapor AF discussed this study are significantly higher than the default AF 0.03 developed by USEPA, but more consistent with the two other default AFs 0.001 and 0.0005 considered in this RFI Report. It should be noted that the *Supplemental Vapor Intrusion Guidance Document* also indicates that California-specific AFs "may be incorporated into a future version of this Supplemental Guidance" (DTSC and CRWCB, 2023).
- The most conservative default AF 0.03 was developed using sub-slab and indoor air paired data collected within 48-hours which address temporal and spatial variability.

Only two (2) VOCs, carbon tetrachloride and chloroform, were identified during the RFI above commercial/industrial screening levels using the default AFs 0.001 and 0.0005, as discussed in

Section 4.17.4 for the area located below the maintenance shop (AOI 17), warehouse (AOI 16), and welding shop (AOI 18) areas (Table 7; Figures 11A through 11C). When utilizing the most conservative AF 0.03, an additional 10 VOCs (including benzene, BDCM, dibromochloromethane, 1,1-DCA, 1,2-DCA, ethylbenzene, naphthalene, PCE, 1,1,2-trichloroethane, and TCE) were identified in RFI soil vapor results above commercial/industrial screening levels, as summarized in the table below. The results for these additional VOCs are examined in previous "VOCs in Soil Vapor" subsections under the respective AOIs. However, based on the lines of evidence presented above concerning Site-specific factors and default AF considerations, the most conservative default AF 0.03 may overestimate vapor intrusion risk for this Site. That being said, the most conservative default AF 0.03 was used as a conservative tool to screen the Site and assess the nature and extent of soil vapor COPCs in the subsurface.

SUMMARY OF SOIL VAPOR ANALYTES REPORTED ABOVE A SCREENING LEVEL		
ID	**Operational Area/Area of Interest (AOI)**	**Analytes (Soil Vapor AF Utilized)**
1	Distillate Tank for Unit 5 Peaker	No analytes reported above a screening level
5	Fueling Station	PCE (0.03)
6	Unit 5 Peaker	Benzene (0.03) PCE (0.03)
14	Hazardous Waste Accumulation Area	No analytes reported above a screening level
15	Generating Units 1 & 2	No analytes reported above a screening level
17	Maintenance Shop (overlaps with Warehouse [AOI 16], Welding Shop [AOI 18], and Septic Pits [AOI 37])	Benzene (0.03) Bromodichloromethane (0.03) Carbon Tetrachloride (0.03, 0.001, and 0.0005) Chloroform (0.03, 0.001, and 0.0005) Dibromochloromethane (0.03) 1,1-Dichloroethane (0.03) 1,2-Dichloroethane (0.03) Ethylbenzene (0.03) Naphthalene (0.03) PCE (0.03) 1,1,2-Trichloroethane (0.03) TCE (0.03)
36	Former Hazardous Waste Area	No analytes reported above a screening level

Soil vapor at the Site is considered adequately characterized based on the results presented in the above sections. The successful execution of the comprehensive sampling plan proposed in the RFI Work Plan in combination with the multiple rounds of additional soil vapor assessment conducted in accordance with four (4) DTSC-approved Tech Memos has led to a robust data set that is available to support risk management decisions moving forward.

4.40.1 Summary of Non-Detect Screening Level Exceedances in Soil Vapor Samples

There are three (3) analytes that were not detected in any soil vapor sample above the RL; however, the RL exceeds the calculated screening levels after applying one or more of the default AFs. A summary and discussion of the non-detected screening level exceedance is included below.

SUMMARY OF NON-DETECT SCREENING LEVEL EXCEEDANCES FOR SOIL VAPOR				
Analyte	**RL µg/m³**	**Screening Level Exceedance**		
		Calculated Level µg/m³	**AF**	**Source**
1,2-Dibromo-3-chloropropane (DBCP)	5	4.0 2.0 0.067	0.0005 0.001 0.03	USEPA RSL USEPA RSL USEPA RSL
1,2-Dibromoethane (EDB)	0.5 to 2	0.67	0.03	USEPA RSL
1,2,3-Trichloropropane (TCP)	1 to 2	0.53	0.03	USEPA RSL

The VOCs, DBCP, EDB, and TCP were not detected in any of the RFI soil samples and the RLs in soil were below soil screening levels. DBCP, EDB, and TCP are not expected to be used or present at the generating station. DBCP was historically used as a fumigant and nematicide for crops and was banned in 1977 (USEPA, 2000a). EDB was previously used as an additive in leaded gasoline and a fumigant and nematicide. Currently, EDB is used in the treatment of logs for bark beetles and termites and as an intermediate for dyes, resins, waxes, and gums (USEPA, 2000b). TCP was used as an industrial solvent and as an impurity in fumigants and nematicides for crops (USEPA, 2017).

Based on the above, the risk of DBCP, EDB, and TCP in soil vapor at the Site appears to be negligible.

4.41 Overall Summary of RFI Groundwater Analytical Results

As discussed in Section 4.17.5, a grab groundwater sample was collected at MS-23D to assess if constituents identified in soil vapor near the warehouse (AOI 16) and maintenance shop (AOI 17) have affected groundwater quality at the Site. VOC results from the grab groundwater sample collected at approximately 460 feet bgs were all less than the applicable California MCLs as presented in Table 8.

5.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

5.1 Analysis of the High Purity Water Used for Field and Equipment Blanks

Honeywell lab-grade water, designed for high-purity liquid chromatography, was used in generating field and equipment blank samples. As introduced in Section 3.7, sample analytical for two batch samples (SSB-DZ609 and SSB-EA182) collected of the Honeywell lab-grade water were reviewed. Based on frequent concentrations of chloroform being reported in project blank samples and the batch analytical results, Sparkletts brand distilled water was later tested (sample ID SDW-1) as a potential substitute for the Honeywell lab-grade water. The following table summarizes the detected parameters in the lab-grade and distilled water used during the RFI. Batch certificates from Honeywell and copies of the analytical reports for blank water sampling of Honeywell lab-grade water and Sparkletts distilled water are included in Appendix F.

HIGH PURITY WATER ANALYTICAL DETECTION SUMMARY			
Parameter	**SSB-DZ609 Results (Honeywell Lab Water)**	**SSB-EA182 Results (Honeywell Lab Water)**	**SDW-1 Results (Sparkletts Distilled Water)**
Chloroform	**3.05** µg/L	**3.38** µg/L	<1.0 µg/L
Arsenic	**0.233 J** µg/L	<0.100 µg/L	Not Analyzed
Barium	**0.638** µg/L	<0.200 µg/L	Not Analyzed
Chromium	**0.198 J** µg/L	<1.0 µg/L	Not Analyzed
Copper	**1.21** µg/L	<0.200 µg/L	Not Analyzed
Lead	**0.159** µg/L	<0.100 µg/L	Not Analyzed
Molybdenum	**0.211** µg/L	<0.100 µg/L	Not Analyzed
Nickel	**0.171 J** µg/L	<0.200 µg/L	Not Analyzed
Silver	**0.932** µg/L	<0.600 µg/L	Not Analyzed
Vanadium	**0.602** µg/L	<0.500 µg/L	Not Analyzed
Zinc	**30.2** µg/L	**9.70** µg/L	Not Analyzed

Low-level concentrations of the VOC chloroform (likely a disinfectant biproduct) and trace and minor concentrations of metals including arsenic, barium, chromium, copper, lead, molybdenum, nickel, silver, vanadium, and zinc were detected in the Honeywell lab-grade water.

VOCs were not reported above laboratory reporting limits in the Sparkletts distilled water sample.

5.2 Field Quality Control Samples

The following field quality control samples were collected during the event:

- Field Duplicates;
- Trip Blanks;
- Field Blanks; and
- Equipment Rinsate Blanks.

Northgate conducted limited validation as indicated in the sections below which generally follow USEPA functional guidelines for data validation.

5.2.1 Field Duplicates

Field duplicates of soil were collected between August 18 and September 2, 2021 and analyzed for TPH, VOCs, SVOCs, metals, pH, and PCBs. As discussed previously in Section 3.7, the target of one (1) duplicate per 10 samples (10%) analyzed was generally met with an overall soil duplicate rate (across all analyses) of 9.6%. Table 9 contains the TPH duplicate results, Table 10 includes the VOC duplicate results, Table 11 contains the SVOC duplicate results, Table 12 includes metals and pH duplicate results, and Table 13 contains the PCB duplicate results.

In general, a relative percent difference (RPD) below 50% for soil samples represent good agreement. It is common practice to only calculate RPDs for sample results that are greater than five times the laboratory RL. RPDs between the duplicate and original sample results were calculated for all detected analytes that were greater than five (5) times the RL. The calculated RPDs are shown on the tables. The calculated RPDs were generally below 50% indicating good agreement with the exception shown in the table below.

Analyte (Table #)	Primary / Duplicate Sample IDs	Calculated RPD	Comment
TPH-mo C_{23}-C_{32} (Table 9)	MS-16-0.5 / MS-116-0.5	55%	Neither concentration exceeds the commercial/industrial screening level
	SS-5-0.5 / SS-105-0.5	73%	Neither concentration exceeds the commercial/industrial screening level
Acetone (Table 10)	F11-10-0.5 / F11-110-0.5	53%	Neither concentration exceeds the commercial/industrial screening level
Barium (Table 12)	FS-3-2.5 / FS-103-2.5	79%	Neither concentration exceeds the commercial/industrial screening level
	SS-11-5 / SS-111-5	60%	Neither concentration exceeds the commercial/industrial screening level

Analyte (Table #)	Primary / Duplicate Sample IDs	Calculated RPD	Comment
Aroclor-1254 (Table 13)	PT1-4-1 / PT1-104-1	95%	Primary sample concentration exceeds the commercial/industrial screening level, but the duplicate sample concentration is below the commercial/industrial screening level

It is common in soil to have higher RPD values due to soil heterogeneities. In an effort to address concentration discrepancies and act in a conservative manner with respect to potential contamination identified during RFI sampling, the higher concentration reported for each duplicate sample pair was considered when determining if additional delineation sampling was necessary.

Field duplicates of soil vapor were collected between August 31, 2021, and October 7, 2022 and analyzed for VOCs. As discussed previously in Section 3.7, the target of one duplicate per 20 samples (5% target) analyzed was met with an overall soil duplicate rate (across all analyses) of 5.6%.

In general, a relative RPD below 50% for soil vapor samples represents good agreement. It is common practice to only calculate RPDs for sample results that are greater than five times the laboratory RL. RPDs between the duplicate and original sample results were calculated for all detected analytes that were greater than five (5) times the RL. The calculated RPDs for soil vapor duplicate sample pairs are shown on Table 14. All calculated RPDs for soil vapor duplicate sample pairs were below 50%, indicating good agreement between soil vapor samples collected during the RFI.

5.2.2 Trip Blanks

Per the RFI Work Plan, a trip blank was placed in each cooler containing the samples to be analyzed for VOCs. The trip blank samples were analyzed for VOCs only. Trip blanks were obtained from the analytical laboratory in closed 40 milliliter glass vials. The vials provided by the laboratory were maintained in the cooler with the samples to be analyzed for VOCs. The trip blank results are included below the VOC analytical results for RFI soil samples on the lower section of Table 3. A single 1,4-dichlorobenzene concentration of 0.24 J micrograms per liter (µg/L) was reported in trip blank TB-A-082521 which accompanied samples collected on August 25, 2021. Due to 1,4-dichlorobenzene method blank contamination, the trip blank result was hand-validated to non-detect with a "B" qualifier (<0.24 J B µg/L) for blank contamination. 1,4-dichlorobenzene was not detected in any soil samples collected as part of the RFI; therefore, no data qualifiers were necessary. Acetone was detected at trace concentrations in two trip blank samples for February 8 and 11, 2022. Acetone is a common laboratory contaminant and the

acetone concentrations detected in soil samples collected during the RFI were all well below the commercial/industrial RSLs. Therefore, the presence of acetone concentrations in the trip blank samples does not negatively impact the results of the report. No other VOCs were detected above the laboratory reporting limits in any of the trip blank samples.

5.2.3 Field Blanks

A total of 20 field blank samples were collected between August 23, 2021, and February 11, 2022 and analyzed for VOCs. The field blank samples are made in the field by decanting the selected lab-grade water into the sampling container on days when VOC samples are being collected. The field blank sample results for VOCs are shown on the lower section of Table 3, respectively. Minor and trace concentrations of VOCs including chloroform, acetone, and n-butylbenzene were reported in a few of the field blank samples. As noted above, minor concentrations of chloroform were also detected in the Honeywell lab-grade water; therefore, their presence in the field blank samples is not indicative of airborne contamination introduced in the field. Furthermore, chloroform was not detected in any of the soil samples analyzed for the RFI.

Low-level concentrations of acetone were commonly detected in soil samples collected during the RFI; however, acetone concentrations in soil were all well below the commercial/industrial RSL. Therefore, the presence of minor and trace acetone concentrations in the field blank samples does not negatively impact the soil results. A trace concentration of n-butylbenzene 0.30 J µg/L was reported in the field blank FB-DZ609-083021. Due to n-butylbenzene method blank contamination, the field blank result was hand-validated to non-detect with a “B” qualifier (<0.30 J B µg/L) for blank contamination. N-Butylbenzene was not reported in any of the RFI soil samples; therefore, data qualifiers of the soil data were not necessary. The trace concentration of n-butylbenzene in the single field blank does not negatively impact the results of the report.

5.2.4 Equipment Rinsate Blanks

Between August 23, 2021 and February 11, 2022, equipment rinsate blank samples were collected at a frequency of approximately one (1) in 20 samples and were analyzed for all constituents analyzed in samples during that field day or sampling group. The equipment rinsate samples were collected by pouring lab-grade water over the decontaminated hand auger, slide hammer, or direct push rig’s sample shoe and collecting the contact water in laboratory-supplied containers.

The equipment rinsate blank sample results are included at the bottom of analytical Tables 2 through 8.

Trace concentrations of TPH-mo were reported in the equipment rinsate blank EB-B-090121, collected on September 1, 2021 (Table 2). Concentrations of TPH were reported in soil samples collected on September 1, 2021, were all below commercial/industrial screening levels; therefore, trace TPH concentrations in the equipment rinsate blank sample do not negatively impact the results of the report.

One (1) trace concentration of carbon disulfide was reported in the equipment rinsate blank EB-B-082721 collected on August 27, 2021 (Table 3). Carbon disulfide reported in RFI soil samples were all below commercial/industrial screening levels; therefore, the trace carbon disulfide concentration in the equipment rinsate blank sample does not negatively impact the results of the report.

Trace and minor concentrations of chloroform were reported in equipment rinsate blank samples collected using Honeywell lab-grade water between August 23, 2021, and February 11, 2022 (Table 3). In addition, chloroform was reported in the Honeywell lab-grade water analytical testing (see Section 5.1). However, chloroform was not reported in any RFI soil samples. Therefore, chloroform concentrations reported in the equipment rinsate blanks do not negatively impact the results of the report.

A trace concentration of 2-butanone was reported in the equipment rinsate blank sample EB-091522 collected using Sparkletts distilled water after rinsing the bladder pump utilized to collect the grab groundwater sample at MS-23D-GW on September 15, 2022 (Table 8). 2-Butanone was not detected in the corresponding groundwater sample; therefore, the 2-butanone concentration reported in the equipment rinsate blank does not negatively impact the results of the report.

A trace concentration of barium was reported in the equipment rinsate blank sample EB-B-082521 collected using Honeywell lab-grade water on August 25, 2021 (Table 5). In addition, Barium was reported in the Honeywell lab-grade water analytical testing (see Section 5.1). However, barium was not reported in any RFI soil samples above commercial/industrial screening levels. Therefore, the barium concentration reported in the equipment rinsate blank does not negatively impact the results of the report.

A trace concentration of copper was reported in the equipment rinsate blank sample EB-B-082321 collected using Honeywell lab-grade water on August 23, 2021 (Table 5). In addition, copper was reported in the Honeywell lab-grade water analytical testing (see Section

5.1). Copper was not reported in any RFI soil samples above commercial/industrial screening levels. Therefore, the copper concentration reported in the equipment rinsate blank does not negatively impact the results of the report.

Trace and minor concentrations of zinc were reported in three (3) equipment rinsate blank samples collected using Honeywell lab-grade water (Table 5). In addition, zinc was reported in the Honeywell lab-grade water analytical testing (see Section 5.1). However, zinc was not reported in any RFI soil samples above commercial/industrial screening levels. Therefore, the zinc concentrations reported in the equipment rinsate blanks do not negatively impact the results of the report.

SVOCs and PCBs were not detected in any of the equipment blank samples submitted as part of the RFI sampling.

5.2.5 Soil Vapor Temporal Variation Assessment

Soil vapor migration through the subsurface can be complex and influenced by climatic factors including temperature, pressure, and precipitation. A majority of the RFI soil vapor data were collected in August and September 2021 with some additional delineation sampling conducted between October 2021 and January 2022. During a project meeting held on January 18, 2022, DTSC recommended that soil vapor temporal variability for the Site be assessed as part of the RFI. High variability in soil vapor concentrations may result in potential underestimation of vapor intrusion risk. To reduce the uncertainty associated with potential variability in soil vapor concentrations, a soil vapor resampling event was conducted in accordance with the prepared Tech Memo-style work plan (Northgate, 2022c). The DTSC approved the Tech Memo on March 17, 2022, with recommendations to adjust the proposed SVP resampling list, which was updated accordingly (DTSC email comments on the Tech Memo are included in Appendix B).

Soil vapor resampling took place on April 4, 2022, and included collecting samples from 22 SVP locations generally installed near AOI 17 (maintenance shop). Findings of the temporal variation study were transmitted to DTSC in the form of an email on May 2, 2022 with supporting soil vapor concentration maps showing soil vapor contours using data from before and after the April 2022 sampling event (a copy of the email with the study findings and supporting table and figures is included in Appendix B). To quantify the amount of variation in soil vapor concentrations across different sampling events and/or seasons, the RPD was calculated for analytes that were detected at least five (5) times higher than their respective laboratory RLs (Table 7A). An RPD of 50% or lower was considered to indicate good agreement (low variability) in soil vapor concentrations between sampling events. According to Table 7A, samples containing significant concentrations of the main risk-driver chemicals for

the Site including chloroform, carbon tetrachloride, PCE, and 1,1-DCA generally indicated good agreement between sampling events. In addition, soil vapor concentration Figures 11A through 11E were updated to reflect the maximum concentration reported to date (most conservative approach), which resulted in very little change to the overall soil vapor concentration contours (the soil vapor contours from before and after the April 2022 resampling event are presented in the May 2, 2022 email to DTSC in Appendix B).

Analytes that consistently indicated higher variability (RPD > 50%) included benzene, Freon-12, ethylbenzene, Freon-11, and xylenes. These analytes are not widely detected at the Site and were also not detected at concentrations above commercial/industrial screening levels using default AF 0.001; therefore, these results are not considered to significantly alter the findings of the report. Overall, temporal variability in soil vapor is considered low at the Site. Soil vapor data including initial temporal variability comparison tables and figures were transmitted to DTSC on May 2, 2022. DTSC responded via email on June 20, 2022, and agreed that no further sampling at the subject sampling points was recommended to assess temporal variability.

5.3 Preservation and Holding Times

Preservation and hold times for soil samples are as follows for the constituents analyzed:

- TPH– preserve to 4 degrees Centigrade, 14 days for samples preserved with sodium biosulfate and methanol;
- VOCs – preserve to 4 degrees Centigrade, 14 days for samples preserved with sodium biosulfate and methanol;
- SVOCs – preserve to 4 degrees Centigrade, 14 days hold time;
- Metals – preserve to 4 degrees Centigrade, 180 days hold time;
- pH – preserve to 4 degrees Centigrade, 24 hours hold time; and.
- PCBs – preserve to 4 degrees Centigrade, 14 days hold time.

Preservation was conducted as required. All analyses for were performed within the hold times listed above.

Preservation and hold times for soil vapor samples included collection of samples in clean, gas-tight, glass syringes and immediately injected into mobile laboratory equipment or stored in individually certified passivated stainless steel (Summa) cannisters for stationary laboratory analysis within 14 days. Preservation was conducted as required. All analyses for VOCs in soil vapor were performed within the hold times mentioned above.

Preservation and hold times for groundwater samples included collection of samples in clean glass vials, preserved to 4 degrees Centigrade with hydrochloric acid (no headspace) and analyzed within 14 days. Preservation was conducted as required. All analyses for VOCs in groundwater were performed within the hold times mentioned above.

5.4 Laboratory QA/QC

The laboratory reports and laboratory QA/QC data are included in Appendix G. As discussed previously, results that were detected above the MDL but below the RL were reported and J flagged by the laboratory as estimated results. These J flags have been included in the tabulated results.

5.4.1 Method Blank Contamination

According to laboratory analytical reports, trace amounts of metals (mercury and barium) and VOCs (chloroform, n-butylbenzene, 1,4-dichlorobenzene, p-isopropyltoluene, 1,2,4-trichlorobenzene, 1,3,5-trimethylbenzene, and styrene) were detected in the method blank samples. The laboratory appropriately flagged all positive results for these parameters in their respective laboratory packages with a B qualifier indicating contamination was detected in the method blank. USEPA guidance for validating data with blank contamination is generally to qualify data that is less than five times the concentration found in the blank as non-detected. A summary of the constituents detected by laboratory package and the associated hand-validation of results that were less than five times the amount found in the blank are listed in the table below.

Method Blank Contaminant Validation Summary

Lab Package	Blank Contaminant	Conc. Detected in Method Blank	Five Times Conc. In Method Blank	Sample ID with Result Less Than Five Times the Method Blank	Original Result	Validated Result
570-68447-1	1,4-Dichlorobenzene	0.3099 J µg/L	1.5495 µg/L	TB-A-082521	0.24 J B	<0.24 J B
570-68779-1	n-Butylbenzene	0.3190 J µg/L	1.595 µg/L	FB-D2609-083021	0.30 J B	<0.30 J B

One (1) trip blank sample (TB-A-082521) and one (1) field blank sample (FB-D2609-083021) with trace concentrations of 1,4-dichlorobenzene and n-butylbenzene were hand-validated as

non-detected due to laboratory method blank contamination. Based on the review of method blank results as part of the data validation process, method blank contamination reported was minimal and not considered to significantly affect the findings of this report.

5.4.2 Deviations from the RFI Work Plan

Deviations from the Work Plan that took place are recorded in Table 1 and summarized below:

- Additional step-out and step-down soil samples were collected at the Unit 5 Peaker (AOI 6) and Units 3 and 4 transformers (AOI 25) for the delineation of PCBs and/or TPH above commercial/industrial screening levels.
- Additional step-out and step-down soil vapor samples were collected in the vicinity of the warehouse (AOI 16), maintenance shop (AOI 17), welding shop (AOI 18), and septic pits (AOI 37). Additionally, a grab groundwater sample was collected from one step-down sampling location (MS-23D) to assess potential for VOCs in groundwater as requested by the DTSC.
- A number of additional soil borings were added to the RFI scope of work to assess soil conditions around additional transformers identified during the Site walk to mark the proposed borings at AOIs 6, 21, and 25.
- Additional shallow samples were collected at step-down boring location MS-23D to assess the former sodium hypochlorite tank located south of former Unit 3 Cooling Tower and north of the former Warehouse, which was not identified in the RFI Work Plan. SCE elected to collect these samples even though the sodium hypochlorite tank was estimated to be installed circa 2007 and installed well after SCE sold the property in 1998.
- One (1) soil boring, F-21, was cancelled at the cooling tower makeup water pond (AOI 21) with DTSC approval because the diesel tank targeted for investigation was determined to postdate SCE's sale of the property in 1998.
- Several instances of hand auger boring refusal which prevented some deeper soil samples per the RFI Work Plan. Based on review of shallow and nearby soil samples, the locations with hand auger refusal are not considered to represent a significant data gap.

As described above, the majority of the deviations or changes to the DTSC-approved RFI Work Plan involved the addition of soil borings and subsurface samples for the purposes of further Site characterization. The remaining deviations from the RFI Work Plan scope are not considered to materially affect the findings of this RFI.

5.4.3 Overall Assessment of Data

The RFI was conducted according to the RFI Work Plan except for the deviations noted in the sections above. A brief summary of QA/QC findings is presented below.

- In general, a RPD below 50% for soil samples represent good agreement; however, six (6) duplicate soil results were identified with an RPD greater than 50%. In an effort to address concentration discrepancies and act in a conservative manner with respect to potential contamination identified during RFI sampling, the higher concentration reported for each duplicate sample pair was considered when determining if additional delineation sampling was necessary. RPDs calculated for soil vapor duplicate samples were all below 50%, indicating good agreement indicating good agreement between soil vapor samples collected during the RFI.

- Trace and minor concentrations of analytes were found in the trip blanks, field blank, and equipment blank samples; however, concentrations of these constituents in corresponding RFI soil samples were either well below commercial/industrial screening levels or below laboratory RLs. In addition, several of the blank contaminants were identified as trace or minor concentrations in lab-grade water used in the collection of field and equipment rinsate blanks. Identified contaminants in trip blanks, field blanks, and equipment rinsate blank samples are not considered to significantly affect the findings of this report.

- Method blank contamination reported was minimal and not considered to significantly affect the findings of this report.

- Temporal variation in soil vapor concentrations is low at the Site for the most prevalent chemicals at the Site and therefore are not considered to significantly affect the findings of this report. It should be noted that maximum soil vapor concentrations are posted on figures wherever multiple or duplicate samples were collected.

- RFI soil, soil vapor, and groundwater samples were collected and handled according to the RFI Work Plan and analyzed within the recommended holding times.

No significant concerns were identified for the data set based on field and laboratory standard QA/QC procedural reviews. The data set is considered acceptable for the purposes of assessing human health risks and supporting stakeholder decisions for future Site use.

6.0 HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT SUMMARY

6.1 Human Health Risk Summary

According to the FICA Agreement between BTC III and the DTSC, the sole responsibility of SCE is to prepare and submit an RFI Report to the DTSC. The current Site owner, BTC III, is responsible for the preparation of a HHSE for the Site (see additional discussion in Section 2.3.2). The HHSE was prepared by Roux on behalf of BTC III with the objective of providing a conservative evaluation of the potential risk from exposure to chemicals detected in the subsurface at the Site for known current and future planned uses (Roux, 2023b). The HHSE is designed to assess whether residual COPCs present in the subsurface at the Site pose an unacceptable level of risk to the following receptors:

- Current and future construction worker,
- Future indoor commercial/industrial worker, and
- Future outdoor commercial/industrial worker.

According to the conceptual site model presented in the HHSE, direct exposure to soil (exposure routes of ingestion, dermal contact, or inhalation of particles) was considered a complete pathway for the current and future construction worker and future outdoor commercial/industrial worker. Exposure to chemicals in indoor air (exposure route of inhalation via vapor intrusion from chemicals present in soil vapor) was considered complete for the future indoor commercial/industrial worker. Direct exposure to groundwater was not considered a complete exposure pathway at the Site.

As discussed in Section 2.4.4.5, an ongoing investigation is being conducted by Roux and BTC III under the USEPA TSCA group based on PCBs concentrations reported above 50 mg/kg in concrete samples at former Units 1 & 2. This investigation is being conducted as part of a SICP prepared by Roux (on behalf of current owner BTC III) under the direct oversight of the USEPA TSCA group. The ongoing USEPA-led investigation is considered separate from the Site RFI, conducted by Northgate (on behalf of former owner SCE). This distinction is significant because although the HHSE prepared by Roux includes the full Pre-RFI and RFI data sets (samples collected between 2019 and 2022; Figure 5), the HHSE also includes elevated concentrations of PCBs identified during the ongoing USEPA-led PCB investigation at former Units 1 & 2 (not included in the aforementioned Pre-RFI and RFI data sets).

The risks for a potential construction worker and outdoor commercial/industrial worker exposure to soil were estimated based on a review of Site-wide soil data. Potential exposure to indoor receptors was qualitatively evaluated for two exposure units (EUs) defined by future

redevelopment plans and distribution of contaminants in the subsurface. Maximum and 95% upper confidence limit (95% UCL) concentrations for soil vapor and soil were selected as exposure point concentrations (EPCs). The cancer and non-cancer risks estimated for the identified receptors and given exposure scenarios included in Roux's HHSE for the Site are summarized in the table below (see complete HHSE for further details on selected risk estimation methods and assumptions).

Cumulative Cancer and Non-Cancer Risks

Receptor	Estimated Cancer Risk	Exceed Risk Threshold of 1E-06 to 1E-04?	Estimated Non-Cancer Risk	Exceed Risk Threshold of 1?
Construction Worker	2E-04	Yes	4E+02	Yes
Future Outdoor Commercial/Industrial (0-2')	1E-03	Yes	9E+01	Yes
Future Outdoor Commercial/Industrial (0-10')	1E-03	Yes	9E+01	Yes
Future Indoor Commercial/Industrial (EU1) - 0.0005 AF	1E-07	No	1E-02	No
Future Indoor Commercial/Industrial (EU2) - 0.0005 AF	1E-06	No	7E-02	No
Future Indoor Commercial/Industrial (EU1) - 0.03 AF	7E-06	Risk Management Range	9E-01	No
Future Indoor Commercial/Industrial (EU2) - 0.03 AF	9E-05	Risk Management Range	4E+00	Yes

The construction worker and future outdoor commercial/industrial worker cancer and non-cancer risks are driven by PCBs (maximum PCB concentration in soil of 750 mg/kg from ongoing USEPA-led investigation used as the EPC).

According to Roux's HHSE, excavation of PCB-impacted soil is planned, and the following post excavation "virtual" scenario was presented for consideration.

"Virtual" Cumulative Cancer and Non-Cancer Risks

Receptor	Estimated Cancer Risk	Exceed Risk Threshold of 1E-06 to 1E-04?	Estimated Non-Cancer Risk	Exceed Risk Threshold of 1?
Construction Worker	4E-07	No	5E+00	Yes
Future Outdoor Commercial/Industrial (0-2')	3E-06	Risk Management Range	1E+00	No
Future Outdoor Commercial/Industrial (0-10')	3E-06	Risk Management Range	1E+00	No

The construction worker scenario, exceedance of the non-cancer hazard target threshold of 1 is driven by the maximum concentration of thallium. Roux considers the maximum thallium concentration an outlier. If the thallium outlier concentration is removed from the dataset for the construction worker scenario, use of the 95% UCL concentration for thallium (2.6 mg/kg) yields an estimated cumulative HI that exceeds 1, but a target analysis identified that no individual target organ exceeds a threshold of 1.

Arsenic and lead concentrations in soil at the Site were evaluated separately from the quantitative risk evaluation presented above. Arsenic in Site soil was considered to be consistent with naturally occurring arsenic in soil and not included in the quantitative risk assessment. Lead in Site soil was evaluated using the DTSC Lead Risk Assessment Spreadsheet. Results of the lead assessment suggest that levels of lead at the Site do not pose unacceptable risk.

6.2 Ecological Risk Summary

In response to a recommendation from DTSC to examine potential risks to ecological receptors at the Site as part of the RFI, a Scoping Level Environmental and Ecological Risk Assessment (SLEERA) was prepared by Tetra Tech, Inc. (Tetra Tech) on behalf of SCE. A copy of the SLEERA is included in Appendix H and briefly summarized below.

The objective of the SLEERA is to provide an evaluation of potential ecological hazards by chemicals of potential ecological concern (COPECs). To accomplish this objective, the SLEERA addresses the following three questions:

- •Are there any potentially affected habitats or receptors of concern present at or near the Site?
- Are potentially harmful chemicals released or present at the Site?

- Are there potentially complete pathways through which biological resources of concern may be exposed to released chemicals?

According to the SLEERA, a negative response to any one of the above questions indicates the absence of potential ecological impacts. If an affirmative answer is given to all three questions, further evaluation potentially including a quantitative predictive ecological risk evaluation may be conducted. By definition, there is no ecological risk if no biological receptors of concern are present that are exposed to chemicals released from the Site.

Potentially affected habitats and receptors of concern were assessed in the SLEERA. Based on available data presented in the SLEERA, it was determined that there exists a moderate potential for the northwest portion of the Site (generally defined as the Construction and Operations Waste Area or AOI 22 in the RFI) to support the Los Angeles pocket mouse (*Perognathus longimembris brevinasus*) and a low potential to support the California horned lark (*Eremophila alpestris actua*). The undeveloped, heavily disturbed areas on the north-western portion of the Site provide marginal foraging and nesting habitat for these species. All remaining special-status wildlife species are presumed to be absent from the Site due to lack of quality habitat.

Although AOI 22 was determined to have the potential to provide suitable habitat for Los Angeles pocket mouse, the Los Angeles pocket mouse has not been observed nor its presence confirmed at the time of the SLEERA preparation. In addition, the population size of the Los Angeles pocket mouse is likely to be limited due to the sparse low-quality nature of the habitat that is currently present at AOI 22.

A formal assessment of COPECs was conducted using detected metals and VOC concentrations in soil samples collected by Ardent and ERM in 2019 and 2020 in the vicinity of AOI 22. Maximum detected concentrations in soil were compared to available background (ambient) soil concentrations and SFBRWQCB ESLs for minimally vegetated terrestrial (commercial/industrial) habitats (Table 2 of the SLEERA).

The SLEERA concluded that it is unlikely that COPECs are present in surface soils at AOI 22 (area identified at the Site as potential habitat for sensitive ecological receptors). The presence of sensitive receptors (i.e., the Los Angeles pocket mouse, a California Species of Special Concern) at the Site is currently undetermined. Accordingly, since it is unlikely that there are COPECs in soil, sensitive receptors, if present, may not be exposed to COPECs.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 RFI Conclusions

The following conclusions can be formed from the data derived from the RFI sampling:

- The RFI was conducted according to the RFI Work Plan except for the deviations noted in Table 1. As described in Section 5.4.2, the majority of the deviations or changes to the DTSC-approved RFI Work Plan involved the addition of soil borings and subsurface samples for the purposes of further Site characterization. The remaining deviations from the RFI Work Plan scope are not considered to materially affect the findings of this RFI.

- Summary of RFI soil results:
  - Reported soil concentrations for TPH and PCBs above commercial/industrial screening levels were appropriately delineated as part of the RFI. Concentrations above commercial/industrial screening levels at Unit 5 Peaker (AOI 6) and Units 3 and 4 transformers (AOI 25) were subsequently removed by Roux (on behalf of BTC III) under the Site's SMP in 2022 (additional details are provided in Section 2.4.4.5). All other reported RFI soil concentrations for TPH, VOCs, SVOCs, metals, and PCBs were below commercial/industrial screening levels.
  - A single historical (Pre-RFI) soil sample, Ardent's (2019) flume investigation boring F3 at the labeled depth of 0.5 feet, reported a thallium concentration of 14.9 mg/kg, which slightly exceeds the commercial/industrial RSL of 12 mg/kg (Table 15 in Appendix A). The thallium concentration for the 1.5-foot sample at F3-1 was less than the commercial RSL and was reported as 2.43 mg/kg. According to Ardent's written scope of services documented in October 2019, soil samples within the concrete-lined flumes were collected at the bottom of the flume immediately beneath the concrete by advancing borings within the "visual expansion joints" and collecting soil at 0.5 and 1.5 below the flume bottom (note that flume bottom was located approximately 8 feet lower than surrounding grade, so the two [2] soil samples discussed herein were collected at approximately 8.5 and 10 feet below current grade, respectively). Given that the thallium concentration at sample location F3-1 (located in the flume south of Cooling Tower 3 [Figure 15]) decreased below commercial/industrial screening level within 1 foot of the flume bottom and the linear nature of the concrete-lined channel with expansion joints, the lateral and vertical migration potential for elevated thallium concentrations in soil is significantly limited. Finally, removal of soil within the expansion joint at sample location F3-1 is not feasible because the flumes have been demolished and the area re-graded.
  - pH in soil samples collected for the RFI ranged from 7.3 to 11.6 standard units.

- All non-detected results for TPH, VOCs, metals, and PCBs in soil included laboratory RLs that were below the commercial/industrial screening levels or the Southern California ambient arsenic screening level of 12 mg/kg.
- SVOCs were not detected in the RFI soil samples. Data was J-flagged down to the MDL and all laboratory RLs were below commercial/industrial screening levels, except for 3,3'-dichlorobenzidine, benzidine, bis(2-chloroethyl)ether, dibenz(a,h)anthracene, N-nitroso-di-n-propylamine, and pentachlorophenol which are not expected at the Site.

- Summary of RFI soil vapor results:
  - Only two (2) VOCs including carbon tetrachloride and chloroform, were identified during the RFI above commercial/industrial screening levels using default AFs 0.001 and 0.0005 as discussed in Section 4.17.4 as part of the soil vapor generally located below the maintenance shop (AOI 17), warehouse (AOI 16), and welding shop (AOI 18) areas (Table 7; Figures 11A through 11C).
  - When utilizing the most conservative AF 0.03, an additional 10 VOCs were identified in RFI soil vapor results above commercial/screening (including benzene, BDCM, dibromochloromethane, 1,1-DCA, 1,2-DCA, ethylbenzene, naphthalene, PCE, 1,1,2-trichloroethane, and TCE). The results for these additional VOCs are examined in Section 4.0 under the respective AOI subsections. However, based on the lines of evidence presented in Section 4.40 concerning Site-specific factors and default AF considerations, the most conservative default AF 0.03 may overestimate vapor intrusion risk for this Site. That being said, the most conservative default AF 0.03 was used as a conservative tool to screen the Site and assess the nature and extent of soil vapor COPCs in the subsurface.
  - Soil vapor at the Site is considered adequately characterized based on the results presented in Section 4.0. The successful execution of the comprehensive sampling plan proposed in the RFI Work Plan in combination with the multiple rounds of additional soil vapor assessment conducted in accordance with four (4) DTSC-approved Tech Memos has led to a robust data set that is available to support risk management decisions moving forward.
  - All non-detected results for VOCs in soil vapor included RLs that were below the calculated commercial screening levels after applying default AFs 0.03, 0.001, and 0.0005 with the exception of DBCP, EDB, and TCP. DBCP, EDB, and TCP are not expected to have been used or present at the former generating station and concentrations have not been detected in the Site soil or groundwater; therefore, the potential risks associated with DBCP, EDB, and TCP in soil vapor appears to be negligible.

- Trace and minor concentrations of analytes were found in the trip blanks, field blank, and equipment blank samples; however, concentrations of these constituents in corresponding RFI soil samples were either well below commercial/industrial screening levels or below laboratory RLs. In addition, several of the blank contaminants were identified as trace or minor concentrations in lab-grade water used in the collection of field and equipment rinsate blanks. Identified contaminants in trip blanks, field blanks, and equipment rinsate blank samples are not considered to significantly affect the findings of this report.

- Method blank contamination resulted in two (2) trace concentrations of VOCs in QA/QC samples being hand-validated as not detected. Method blank contamination reported was minimal and not considered to significantly affect the findings of this report.
- No significant concerns were identified for the RFI data set based on field and laboratory standard QA/QC procedural reviews. The data set is considered acceptable for purposes of assessing risks to human and ecological receptors and supporting stakeholder decisions for future Site use.
- The Site AOIs have been adequately characterized based on the RFI results.

7.2 Other Considerations for Stakeholders

- A separate investigation related to PCBs in concrete and soil at former Units 1 & 2 is currently being conducted at the Site by Roux (on behalf of current owner BTC III) under the oversight of the USEPA TSCA group. Results of this ongoing, USEPA-led investigation are not included in this RFI Report, but initial soil data are included in an HHSE prepared by Roux, on behalf of BTC III. Once PCB impacts at former Units 1 & 2 have been fully characterized, it is anticipated that a cleanup program will be implemented that is compliant with USEPA TSCA and DTSC requirements to address residual PCBs at former Units 1 & 2 that present unacceptable risk to human health and the environment.
- Findings of the HHSE prepared by Roux on behalf of BTC III indicate that PCBs in soil at former Units 1 & 2 represent unacceptable cancer and non-cancer risks to construction workers and future commercial/industrial workers. The HHSE indicates that the PCB-impacted soil is anticipated to be addressed via soil excavation under USEPA and DTSC oversight and will result in acceptable cancer risks for current and future receptors at the Site. An outlier thallium concentration in soil remaining after remediation activities will result in unacceptable non-cancer risk for the construction worker scenario only. However, as described further in Section 6.1, no individual target organ exceeds the non-cancer threshold of 1 when utilizing the 95% UCL concentration for thallium.

- A SLEERA was prepared for the Site and is included in Appendix H. The objective of the SLEERA is to provide an evaluation of potential ecological hazards by COPECs. The SLEERA concluded that it is unlikely that COPECs are present in surface soils at AOI 22 (area identified at the Site as potential habitat for sensitive ecological receptors). The presence of sensitive receptors (i.e., the Los Angeles pocket mouse, a California Species of Special Concern) at the Site is currently undetermined. Accordingly, since it is unlikely that there are COPECs in soil, sensitive receptors, if present, may not be exposed to COPECs.

7.3 Recommendations

Results of the RFI indicate that the Site has been adequately characterized. Further sampling is not recommended at the identified AOIs as part of the RFI. With the exception of the ongoing USEPA-led investigation and anticipated remediation of PCBs at the former Units 1 & 2 (to be completed by BTC III), the Site meets general criteria for the proposed commercial/industrial land use.

8.0 REFERENCES

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TABLES

Table 1
RFI Sampling Program Summary and Work Plan Deviations

AOI Number	Area of Interest (AOI)	Location or Special Instruction	Boring ID	Sample Depth (feet bgs)	Soil TPH by EPA 8015B (1)	Soil TPH-d/o by EPA 8015B (2)	Soil VOCs by EPA 8260B	Soil SVOCs including PAHs by EPA 8270C	Soil Lead by EPA Method 6020	Soil Metals by EPA Methods 6020/7471A	Soil PCBs by EPA 8082	Soil pH by EPA 9045C	Soil Gas Probe at Specified Depth(s) (3)	Soil Vapor VOCs by EPA 8260B	Description of Conditional Analyses Performed or Deviations from the RFI Work Plan
1	Distillate Tank for Unit 5 Peaker	Borings adjacent to the base of the tank	DT-1	2.5	A		H, P	H, P							No change from Work Plan
				5	A		H, P	H, P					Yes	A	
				10	A		H, P	H, P					Yes	A	
			DT-2	2.5	A		H, P	H, P							No change from Work Plan
				5	A		H, P	H, P					Yes	A	
				10	A		H, P	H, P					Yes	A	
			DT-3	2.5	A		H, P	H, P							No change from Work Plan
				5	A		H, P	H, P					Yes	A	
				10	A		H, P	H, P					Yes	A	
			DT-4	2.5	A		H, P	H, P							No change from Work Plan
				5	A		H, P	H, P					Yes	A	
				10	A		H, P	H, P					Yes	A	
2	Former Boiler Chemical Cleaning Basin (Closed)	Basin	None	None	No Sampling Proposed										N/A
3	South Retention Basin (Closed)	Basin	None	None	No Sampling Proposed										N/A
4	North Retention Basin (Closed)	Basin	None	None	No Sampling Proposed										N/A
5	Fueling Station	One boring adjacent to pump and the second boring adjacent to the UST	F5-1	2.5	A		A		A						No change from Work Plan
				5	A		A		A				Yes	A	
				10	A		H, P		H, P				Yes	A	
			F5-2	2.5	A		A		A						No change from Work Plan
				5	A		A		A				Yes	A	
				10	A		H, P		H, P				Yes	A	
6	Unit 5 (Peaker)	Peaker Transformer 1: Sampled by fill port and areas of staining (if present)	PT1-1	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			PT1-2	0							A				TPH concentrations in 0.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
			PT1-3	0							A				TPH concentrations in 0.5-foot sample exceeded 100 mg/kg and PCBs in 1-foot sample exceeded screening levels; additional analyses scheduled per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				~~H~~ A				
			PT1-3N (5-ft Step-out)	0							A				Additional 5-foot step-out soil boring advanced to delineate PCB concentrations in soil identified at PT1-3
				0.5							A				
				1							A				
				2.5							H				
			PT1-3E (5-ft Step-Out)	0							A				Additional 5-foot step-out soil boring advanced to delineate PCB concentrations in soil identified at PT1-3
				0.5							A				
				1							A				
				2.5							H				
			PT1-4	0							A				PCBs in 1-foot sample exceeded screening levels and 2.5-foot sample was analyzed per Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				~~H~~ A				
			PT1-4S (5-ft Step-out)	0							A				Additional 5-foot step-out soil boring advanced to delineate PCB concentrations in soil identified at PT1-4
				0.5							A				
				1							A				
				2.5							H				
			PT1-4E (5-ft Step-Out)	0							A				Additional 5-foot step-out soil boring advanced to delineate PCB concentrations in soil identified at PT1-4
				0.5							A				
				1							A				
				2.5							H				
		Peaker Transformer 2: Sampled by fill port and areas of staining (if present)	PT2-1	0							A				Additional small transformer identified during Site walk on August 6, 2021. SCE elected to advance four adjacent soil borings and collect soil samples consistent with transformer investigation strategy outlined in the Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
			PT2-2	0							A				
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			PT2-3	0							A				
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			PT2-4	0							A				
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
		General Vicinity of Peaker Unit	P-1	2.5			A								No change from Work Plan
				5			A						Yes	A	
				10			A						Yes	A	
			P-1B (Step-Down)	20			A							A	Additional step-down boring advaned to vertically delineate VOCs in soil and soil vapor samples
				40			A							A	
			P-2	5									Yes	A	VOCs in soil vapor samples collected at P-1 exceeded screening levels. Soil vapor samples were collected at P-2 through P-4 per the Work Plan
				10									Yes	A	
			P-3	5									Yes	A	
				10									Yes	A	
			P-4	5									Yes	A	
				10									Yes	A	
			P-5 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs identified in soil vapor at Unit 5 Peaker area
				20			A						Yes	A	
			P-6 (Step-Out)	5			A						Yes	A	
				20			A						Yes	A	
			P-7	5									Yes	A	
			P-8 (Step-Out)	5			A						Yes	A	
				20			A						Yes	A	
			P-9 (Step-Out)	5			A						Yes	A	
				20			A						Yes	A	
7	Administration Building	Center of Site	None	None	No Sampling Proposed										N/A
8	Decommissioned RO Equip and Basin	S part of Site	None	None	No Sampling Proposed										N/A
9	Laydown Area	SW side of Site	None	None	No Sampling Proposed										N/A
10	Units 1 and 2 Cooling Towers	W side of Site	None	None	No Sampling Proposed										N/A

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AOI Number	Area of Interest (AOI)	Location or Special Instruction	Boring ID	Sample Depth (feet bgs)	Soil TPH by EPA 8015B (1)	Soil TPH-d/o by EPA 8015B (2)	Soil VOCs by EPA 8260B	Soil SVOCs including PAHs by EPA 8270C	Soil Lead by EPA Method 6020	Soil Metals by EPA Methods 6020/7471A	Soil PCBs by EPA 8082	Soil pH by EPA 9045C	Soil Gas Probe at Specified Depth(s) (3)	Soil Vapor VOCs by EPA 8260B	Description of Conditional Analyses Performed or Deviations from the RFI Work Plan
11	Chadwick Channel	Center of Site	F11-1	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-2A	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-2B	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-3	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-4	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-5	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-6	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-7	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-8	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
			F11-9	0.5		A	A	A			A				Hand auger refusal after multiple attempts to reach target depth: 2.5 and 5-foot samples not feasible/collected.
				~~2.5~~		~~A~~	~~A~~	~~A~~			~~A~~				
				~~5~~		~~H~~	~~H~~	~~H~~			~~H~~				
			F11-10	0.5		A	A	A			A				No change from Work Plan
				2.5		A	A	A			A				
				5		H	H	H			H				
12	Units 4 Cooling Towers and Cooling Tower Transformer	N part of Site	None	None	No Sampling Proposed										N/A
13	Generating Units 3 & 4	Center of Site	None	None	No Sampling Proposed										N/A
14	Hazardous Waste Accumulation Area	S part of Site	F14-1	0							A				No change from Work Plan
				0.5	A		A			A	A				
				1							A				
				2.5	A		A			A					
				5	H		H			H	H		Yes	A	
				10	H		H			H	H		Yes	A	
15	Generating Units 1 & 2	E part of Site	F15-1	5									Yes	A	No change from Work Plan
16	Warehouse	N Central part of Site, N of Units 1 and	Sampling in this area is summarized under maintenance shop (AOI 17)												N/A
17	Maintenance Shop	N Central part of Site, N of Units 1 and 2	MS-10/10R	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs. Replacement soil vapor probe MS-10R was installed for soil vapor temporal variation analysis after original probe had been decommissioned.
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			MS-11	0.5	A		A								One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs
				2.5	A		A								
				5	A		A						Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			MS-12	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			MS-13/13R	0.5	A		A								One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs. Replacement soil vapor probe MS-13R was installed for soil vapor temporal variation analysis after original probe had been decommissioned.
				2.5	A		A								
				5	A		A						Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			MS-13B (Step-Down)	40			A						Yes	A	Additional step-down soil and soil vapor samples were collected at this location to vertically delineate VOCs
				60			A						Yes	A	
			MS-14	0.5	A		A			A					Soil vapor concentrations at 10 feet bgs were below screening levels. Analysis of soil and soil vapor at 20 feet was not warranted.
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		H						Yes	A	
				15	H		H								
				20	H		H						Yes	~~A~~ H	
			MS-15	0.5	A		A								One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs
				2.5	A		A								
				5	A		A						Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			MS-16	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			MS-17/17R	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs. Replacement soil vapor probe MS-17R was installed for soil vapor temporal variation analysis after original probe had been decommissioned.
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			MS-17B (Step-Down)	40			A						Yes	A	Additional step-down soil and soil vapor samples were collected at this location to vertically delineate VOCs
				60			A						Yes	A	
			MS-18	0.5	A		A								No change from Work Plan
				2.5	A		A								
				5	A		A						Yes	A	
				10	H		H						Yes	A	
				15	H		H								
				20	H		H						Yes	A	
			MS-19 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				10			H						Yes	H	
				20			A						Yes	A	
			MS-20 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				10			H						Yes	H	
				20			A						Yes	A	

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17	Maintenance Shop	N Central part of Site, N of Units 1 and 2	MS-21/21R (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs. Replacement soil vapor probe MS-21R was installed for soil vapor temporal variation analysis after original probe had been
				20			A						Yes	A	
			MS-22 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-23 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-23B (Step-Down)	40			A						Yes	A	Additional step-down soil and soil vapor samples were collected at this location to vertically delineate VOCs
				60			A						Yes	A	
				80			A						Yes	A	
				100			A						Yes	A	
			MS-23C (Step-Down)	125			A						Yes	A	Additional step-down soil and soil vapor samples were collected at this location to vertically delineate VOCs.
				150			A						Yes	A	
				175			H						Yes	A	
				190			A								
				200			A						Yes	A	
			MS-23D (Step-Down)	250									Yes	A	Additional step-down soil vapor samples were collected at this location to vertically delineate VOCs. A grab groundwater sample MS-23D-GW was also collected at 460 feet bgs via temp. well and bladder pump.
				300									Yes	A	
				350									Yes	A	
				400									Yes	A	
			MS-24 (Step-Out)	5			H						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-25 (Step-Out)	5			H						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-26/26R (Step-Out)	5			H						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs. Replacement soil
				20			A						Yes	A	
			MS-27 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-28 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			H						Yes	A	
			MS-29 (Step-Out)	5			H						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-30 (Step-Out)	5			H						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-31 (Step-Out)	5			H						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			MS-32 (Step-Out)	5			A						Yes	A	Additional step-out soil and soil vapor samples were collected to laterally delineate VOCs
				20			A						Yes	A	
			SS-1B	0.5	A		A								One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs
				2.5	A		A								
				5	A		A						Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			SS-4	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			SS-5	0.5	A		A			A					Soil vapor concentrations at 10 feet bgs were below screening levels. Analysis of soil and soil vapor at 20 feet was not warranted.
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		H						Yes	A	
				15	H		H								
				20	H		H						Yes	~~A~~ H	
			SS-6	0.5	A		A								No change from Work Plan
				2.5	A		A								
				5	A		A						Yes	A	
				10	H		H						Yes	A	
				15	H		H								
				20	H		H						Yes	A	
			SS-7	0.5	A		A								No change from Work Plan
				2.5	A		A								
				5	A		A						Yes	A	
				10	H		H						Yes	A	
				15	H		H								
				20	H		H						Yes	A	
			SS-8	0.5	A		A								Adjacent soil vapor sample locations did not identify concentrations above screening levels; soil vapor probes were not sampled at this location per the Work Plan
				2.5	A		A								
				5	A		A						Yes	~~A~~ H	
				10	H		H						Yes	~~A~~ H	
				15	H		H								
				20	H		H						Yes	~~A~~ H	
			SS-9	0.5	A		A								Adjacent soil vapor sample locations did not identify concentrations above screening levels; soil vapor probes were not sampled at this location per the Work Plan
				2.5	A		A								
				5	A		A						Yes	~~A~~ H	
				10	H		H						Yes	~~A~~ H	
				15	H		H								
				20	H		H						Yes	~~A~~ H	
			SS-10/10R	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs. Replacement soil vapor probe SS-10R was installed for soil vapor temporal variation analysis after original probe had been decommissioned.
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	
			SS-11	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		H						Yes	A	
			SS-12	0.5	A		A			A					One or more chemical in soil vapor exceeded a screening level; SCE elected to analyze co-located soil samples for VOCs. Replacement soil vapor probe SS-12R was installed and sampled due to tracer gas detection in original 5-foot samples.
				2.5	A		A			A					
				5	A		A			A			Yes	A	
				10	H		~~H~~ A						Yes	A	
				15	H		H								
				20	H		~~H~~ A						Yes	A	

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18	Welding Shop	NE part of Site, N of Units 1 and 2	Sampling in this area is summarized under maintenance shop (AOI 17)												
19	Unit 3 Cooling Towers	N Central part of Site	None	None	No Sampling Proposed										
20	Capped Natural Gas Easement	E part of Site	None	None	No Sampling Proposed										
21	Cooling Tower Makeup Water Pond	Adjacent to diesel tank in SW corner of pond	F21-1 Boring Canceled	~~0.5~~	~~A~~		~~A~~								Diesel tank was determined to post date SCE's sale of property in 1998. DTSC was notified of this and feature was removed from the RFI sampling program.
				~~2.5~~	~~A~~		~~A~~								
				~~5~~	~~H~~		~~H~~						~~Yes~~	~~A~~	
				~~10~~	~~H~~		~~H~~						~~Yes~~	~~A~~	
		1st Transformer (northern) by Fill Port and Areas of Staining (if present)	F21-T1-1	0							A				Additional small transformer identified during Site walk on August 6, 2021. SCE elected to advance two adjacent soil borings and collect soil samples consistent with transformer investigation strategy outlined in the Work Plan. Samples where TPH concentrations exceeded 100 mg/kg were analyzed for VOCs per Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			F21-T1-2	0							A				
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
		2nd Transformer (southern) by Fill Port and Areas of Staining (if present)	F21-T2-1	0							A				Additional small transformer identified during Site walk on August 6, 2021. SCE elected to advance two adjacent soil borings and collect soil samples consistent with transformer investigation strategy outlined in the Work Plan. Samples where TPH concentrations exceeded 100 mg/kg were analyzed for VOCs per Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			F21-T2-2	0							A				
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
22	Construction and Operations Waste	NW part of Site	None	None	No Sampling Proposed										N/A
23	Auxiliary Transformers	S and NW part of Site	None	None	No Sampling Proposed										N/A
24	Sulfuric Acid Tank	N and NW part of Site	F24-1	0.5						A					No change from Work Plan
				2.5						A					
				5						H					
			F24-2	0.5						A					No change from Work Plan
				2.5						A					
				5						H					
25	Units 3 & 4 Transformers	1st Transformer by Fill Port and Areas of Staining (if present)	T3-4-1	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-2	0							A				TPH concentrations in 0.5 -foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan. PCBs in 1.0-foot sample exceeded screening levels, 2.5-foot sample analyzed for PCBs per Work Plan.
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				~~H~~ A				
			T3-4-2NW (Step-Out)	0							A				Additional step-out soil sampling conducted to delineate extent of PCBs in soil above screening levels.
				1							A				
				2.5							H				
			T3-4-2NE (Step-Out)	0							A				Additional step-out soil sampling conducted to delineate extent of PCBs in soil above screening levels.
				1							A				
				2.5							H				
			T3-4-3	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-4	0							A				TPH concentrations in 0.5 -foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-4SW (Step-Out)	0.5		A									Additional step-out soil sampling conducted to delineate extent of TPH in soil above screening levels.
				2.5		H									
			T3-4-4SE (Step-Out)	0.5		A									Additional step-out soil sampling conducted to delineate extent of TPH in soil above screening levels.
				2.5		H									
		2nd Transformer by Fill Port and Areas of Staining (if present)	T3-4-5	0							A				TPH concentrations in 0.5 and 2.5-foot samples exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		~~H, P~~ A				H				
			T3-4-5NW (Step-Out)	0.5		A									Additional step-out soil sampling conducted to delineate extent of TPH in soil above screening levels.
				2.5		H									
			T3-4-5SW (Step-Out)	0.5		A									Additional step-out soil sampling conducted to delineate extent of TPH in soil above screening levels.
				2.5		H									
			T3-4-6	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-7	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-8	0							A				TPH concentrations in 0.5 -foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
		3rd Transformer by Fill Port and Areas of Staining (if present)	T3-4-9	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-10	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-11	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-12	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				

Table 1
RFI Sampling Program Summary and Work Plan Deviations

AOI Number	Area of Interest (AOI)	Location or Special Instruction	Boring ID	Sample Depth (feet bgs)	Soil TPH by EPA 8015B (1)	Soil TPH-d/o by EPA 8015B (2)	Soil VOCs by EPA 8260B	Soil SVOCs including PAHs by EPA 8270C	Soil Lead by EPA Method 6020	Soil Metals by EPA Methods 6020/7471A	Soil PCBs by EPA 8082	Soil pH by EPA 9045C	Soil Gas Probe at Specified Depth(s) (3)	Soil Vapor VOCs by EPA 8260B	Description of Conditional Analyses Performed or Deviations from the RFI Work Plan
25	Units 3 & 4 Transformers	4th Transformer (Small) Located between Units 3 and 4	T3-4-13	0							A				Additional small transformer identified during Site walk on August 6, 2021. SCE elected to advance two adjacent soil borings and collect soil samples consistent with transformer investigation strategy outlined in the Work Plan. Samples where TPH concentrations exceeded 100 mg/kg were analyzed for VOCs per Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T3-4-14	0							A				
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
		5th Transformer (Small) Located between Units 3 and 4	T3-4-15	0							A				Additional small transformer identified during Site walk on August 6, 2021. SCE elected to advance two adjacent soil borings and collect soil samples consistent with transformer investigation strategy outlined in the Work Plan. Samples where TPH concentrations exceeded 100 mg/kg were analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		~~H, P~~ A				H				
			T3-4-16	0							A				
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
26	Units 1 & 2 Transformers	1st Transformer by Fill Port and Areas of Staining (if present)	T1-2-1	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-2	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-3	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-4	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
		2nd Transformer by Fill Port and Areas of Staining (if present)	T1-2-5	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-6	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-7	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-8	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
		3rd Transformer by Fill Port and Areas of Staining (if present)	T1-2-9	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-10	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-11	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-12	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
		4th Transformer by Fill Port and Areas of Staining (if present)	T1-2-13	0							A				TPH concentrations in 0.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-14	0							A				TPH concentrations in 0.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-15	0							A				TPH concentrations in 0.5 and 2.5-foot samples exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		~~H, P~~ A				H				
			T1-2-16	0							A				TPH concentrations in 2.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		~~H, P~~ A				H				
		5th Transformer by Fill Port and Areas of Staining (if present)	T1-2-17	0							A				Hand auger refusal encountered. Soil sample at 2.5 feet bgs was unable to be collected.
				0.5	A		H, P				A				
				1							A				
				~~2.5~~	~~A~~		~~H, P~~				~~H~~				
			T1-2-18	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-19	0							A				TPH concentrations in 0.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-20	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				

Table 1
RFI Sampling Program Summary and Work Plan Deviations

AOI Number	Area of Interest (AOI)	Location or Special Instruction	Boring ID	Sample Depth (feet bgs)	Soil TPH by EPA 8015B (1)	Soil TPH-d/o by EPA 8015B (2)	Soil VOCs by EPA 8260B	Soil SVOCs including PAHs by EPA 8270C	Soil Lead by EPA Method 6020	Soil Metals by EPA Methods 6020/7471A	Soil PCBs by EPA 8082	Soil pH by EPA 9045C	Soil Gas Probe at Specified Depth(s) (3)	Soil Vapor VOCs by EPA 8260B	Description of Conditional Analyses Performed or Deviations from the RFI Work Plan
26	Units 1 & 2 Transformers	6th Transformer by Fill Port and Areas of Staining (if present)	T1-2-21	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-22	0							A				TPH concentrations in 0.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-23	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-24	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
		7th Transformer by Fill Port and Areas of Staining (if present)	T1-2-25	0							A				Hand auger refusal encountered. Soil sample at 2.5 feet bgs was unable to be collected.
				0.5	A		H, P				A				
				1							A				
				~~2.5~~	~~A~~		~~H, P~~				~~H~~				
			T1-2-26	0							A				TPH concentrations in 2.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		~~H, P~~ A				H				
			T1-2-27	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-28	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
		8th Transformer by Fill Port and Areas of Staining (if present)	T1-2-29	0							A				No change from Work Plan
				0.5	A		H, P				A				
				1							A				
				2.5	A		H, P				H				
			T1-2-30	0							A				Hand auger refusal encountered at approximately 1.5 feet bgs (concrete foundation). Soil sample at 2.5 feet bgs was unable to be collected.
				0.5	A		H, P				A				
				1							A				
				~~2.5~~	~~A~~		~~H, P~~				~~H~~				
			T1-2-31	0							A				Hand auger refusal encountered at approximately 1.5 feet bgs (concrete foundation). Soil sample at 2.5 feet bgs was unable to be collected.
				0.5	A		H, P				A				
				1							A				
				~~2.5~~	~~A~~		~~H, P~~				~~H~~				
			T1-2-32	0							A				TPH concentrations in 0.5-foot sample exceeded 100 mg/kg, sample analyzed for VOCs per Work Plan
				0.5	A		~~H, P~~ A				A				
				1							A				
				2.5	A		H, P				H				
27	Acid Caustic Tank Area	S part of Site	FS-3	0.5						A		A			No change from Work Plan
				2.5						A		A			
				5						H		H			
28	Well Water Storage Tank	E part of Site	None	None	No Sampling Proposed										N/A
29	Distilled Water Tanks	E part of Site	None	None	No Sampling Proposed										N/A
30	Cooling Water Tank	Center of Site	None	None	No Sampling Proposed										N/A
31	Fire House (foam)	S part of Site	None	None	No Sampling Proposed										N/A
32	Fire Water Pumps	Center of Site	None	None	No Sampling Proposed										N/A
33	Sludge Drainage Area	W part of Site	None	None	No Sampling Proposed										N/A
34	Northern Fill	NW part of Site	None	None	No Sampling Proposed										N/A
35	Soidum Hypochlorite Tanks	N, NE, and W part of Site	F35-1	0.5						A		A			No change from Work Plan
				2.5						A		A			
				5						H		H			
			F35-2	0.5						A					No change from Work Plan
				2.5						A					
				5						H					
			F35-3	0.5						A					Hand auger refusal encountered. Collected deepest soil sample at 4 feet bgs.
				2.5						A					
				~~5~~ 4						H					
			MS-23C	0.5						A		A			Sodium hypochlorite adjacent to Cooling Tower 3 not previously identified for sampling in the Work Plan. Collected soil samples after tank was removed.
				2.5						A		A			
				5						H		H			
36	Former Hazardous Waste Area	SW side of Site	F36-1	0							A				No change from Work Plan
				0.5	A		A			A	A				
				1							A				
				2.5	A		A			A					
				5	H		H			H	H		Yes	A	
				10	H		H			H	H		Yes	A	
			F36-2	0							A				No change from Work Plan
				0.5	A		A			A	A				
				1							A				
				2.5	A		A			A					
				5	H		H			H	H		Yes	A	
				10	H		H			H	H		Yes	A	
			F36-3	0							A				No change from Work Plan
				0.5	A		A			A	A				
				1							A				
				2.5	A		A			A					
				5	H		H			H	H		Yes	A	
				10	H		H			H	H		Yes	A	
37	Septic Pits	E part of Site	Sampling in this area is summarized under maintenance shop (AOI 17)												N/A
38	Flumes	W part of Site	None	None	No Sampling Proposed										N/A

Notes:

Red	Red font indicates a deviation from the RFI Work Plan scope or a conditional course of action taken based on analytical results
(1)	Total petroleum hydrocarbon full carbon chain (including C4-C12, C13-C22, C23-C32, C6-C8, C9-C16, and C17-C32 ranges)
(2)	Total petroleum hydrocarbons in diesel and motor oil ranges (including C13-C22, C23-C32, C9-C16, and C17-C32 ranges)
A	Analyze
H	Hold pending results of shallower samples or nearby samples
P	Potential soil analysis if TPH in any of the ranges above 100 mg/kg will be further analyzed for VOCs and/or SVOCs (including PAHs)
bgs	Below ground surface
EPA	Environmental Protection Agency
PAHs	Polycyclic aromatic hydrocarbons
PCBs	Polychlorinated biphenyls
mg/kg	Milligram per kilogram
SVOC	Semi-volatile organic compounds
TPH	Total petroleum hydrocarbons
VOCs	Volatile organic compounds

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
RFI Sample Results									
1 (Distillate Tank for Unit 5 Peaker)	DT-1	DT-101-2.5	X	2.5	8/27/21	mg/kg	<0.090	**7.9**	**6.1**
		DT-1-2.5		2.5	8/27/21	mg/kg	<0.095	<5.0	**4.7 J**
		DT-1-5		5	8/27/21	mg/kg	<0.11	**5.7**	**4.6 J**
		DT-1-10		10	8/27/21	mg/kg	<0.10	**5.3**	**4.8 J**
	DT-2	DT-2-2.5		2.5	8/27/21	mg/kg	<0.11	<5.0	<5.0
		DT-2-5		5	8/27/21	mg/kg	<0.15	**5.3**	**4.0 J**
		DT-2-10		10	8/27/21	mg/kg	<0.13	**4.8**	**3.9 J**
	DT-3	DT-3-2.5		2.5	8/27/21	mg/kg	**0.73**	**9.9**	**9.3**
		DT-3-5		5	8/27/21	mg/kg	**0.098**	**9.3**	**9.7**
		DT-3-10		10	8/27/21	mg/kg	<0.16	<4.9	<4.9
	DT-4	DT-4-2.5		2.5	8/27/21	mg/kg	**1.0**	**9.6**	**9.8**
		DT-4-5		5	8/27/21	mg/kg	<0.11	**5.4**	**4.9**
		DT-104-10	X	10	8/27/21	mg/kg	<0.097	**6.8**	**5.1**
		DT-4-10		10	8/27/21	mg/kg	<0.10	**6.2**	**4.6 J**
5 (Fueling Station)	F5-1	F5-1-2.5		2.5	8/27/21	mg/kg	<0.084	<4.9	<4.9
		F5-1-5		5	8/27/21	mg/kg	<0.088	**6.8**	**6.1**
		F5-1-10		10	8/27/21	mg/kg	<0.21	<4.8	<4.8
	F5-2	F5-2-2.5		2.5	8/27/21	mg/kg	<0.093	<4.9	<4.9
		F5-2-5		5	8/27/21	mg/kg	<0.089	**4.2 J**	<5.0
		F5-2-10		10	8/27/21	mg/kg	<0.11	**11**	**8.9**
6 (Unit 5 Peaker)	PT1-1	PT1-1-0.5		0.5	8/24/21	mg/kg	<0.087	**4.3 J**	**9.2**
		PT1-1-2.5		2.5	8/24/21	mg/kg	<0.081	<4.9	<4.9
	PT1-2	PT1-2-0.5		0.5	8/24/21	mg/kg	<0.087	**100**	**35**
		PT1-2-2.5		2.5	8/24/21	mg/kg	<0.085	**43**	**16**
	PT1-3	PT1-3-0.5		0.5	8/24/21	mg/kg	<0.095	**18**	**140**
		PT1-3-2.5		2.5	8/24/21	mg/kg	<0.10	**11**	**60**
	PT1-4	PT1-4-0.5		0.5	8/24/21	mg/kg	<0.085	**9.0**	**33**
		PT1-4-2.5		2.5	8/24/21	mg/kg	<0.085	<4.9	<4.9
	PT2-1	PT2-1-0.5		0.5	8/23/21	mg/kg	<0.093	**56**	**71**
		PT2-1-2.5		2.5	8/23/21	mg/kg	<0.099	**31**	**40**
	PT2-2	PT2-2-0.5		0.5	8/23/21	mg/kg	<0.10	**9.8**	**21**
		PT2-2-2.5		2.5	8/23/21	mg/kg	<0.096	**37**	**24**
	PT2-3	PT2-103-0.5	X	0.5	8/23/21	mg/kg	<0.098	**7.8**	**64**
		PT2-3-0.5		0.5	8/23/21	mg/kg	<0.095	<4.9	**5.3**

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
6 (Unit 5 Peaker)	PT2-3	PT2-3-2.5		2.5	8/23/21	mg/kg	<0.095	<4.9	<4.9
	PT2-4	PT2-4-0.5		0.5	8/24/21	mg/kg	<0.096	**12**	**16**
		PT2-4-2.5		2.5	8/24/21	mg/kg	<0.095	**7.3**	**9.5**
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	8/26/21	mg/kg	--	**7.8**	**20**
		F11-101-0.5	X	0.5	8/26/21	mg/kg	--	**5.7**	**18**
		F11-1-2.5		2.5	8/26/21	mg/kg	--	<5.0	**6.8**
	F11-2A	F11-2A-0.5		0.5	8/26/21	mg/kg	--	**30**	**260**
		F11-2A-2.5		2.5	8/26/21	mg/kg	--	**4.5 J**	**16**
	F11-2B	F11-2B-0.5		0.5	8/26/21	mg/kg	--	**5.2**	**21**
		F11-2B-2.5		2.5	8/26/21	mg/kg	--	<5.0	<5.0
	F11-3	F11-3-0.5		0.5	8/26/21	mg/kg	--	**6.8**	**22**
		F11-3-2.5		2.5	8/26/21	mg/kg	--	<4.9	**3.8 J**
	F11-4	F11-4-0.5		0.5	8/31/21	mg/kg	--	**6.2**	**18**
		F11-4-2.5		2.5	8/31/21	mg/kg	--	<5.0	<5.0
	F11-5	F11-105-0.5	X	0.5	8/31/21	mg/kg	--	**11**	**13**
		F11-5-0.5		0.5	8/31/21	mg/kg	--	**11**	**11**
		F11-5-2.5		2.5	8/31/21	mg/kg	--	**4.3 J**	**19**
	F11-6	F11-6-0.5		0.5	8/31/21	mg/kg	--	**7.2**	**11**
		F11-6-2.5		2.5	8/31/21	mg/kg	--	<4.8	<4.8
	F11-7	F11-7-0.5		0.5	8/31/21	mg/kg	--	<4.8	<4.8
		F11-7-2.5		2.5	8/31/21	mg/kg	--	<5.0	<5.0
	F11-8	F11-8-0.5		0.5	8/31/21	mg/kg	--	<4.9	**18**
		F11-8-2.5		2.5	8/31/21	mg/kg	--	<4.9	<4.9
	F11-9	F11-9-0.5		0.5	8/26/21	mg/kg	--	<5.0	**9.1**
	F11-10	F11-10-0.5		0.5	8/26/21	mg/kg	--	**15**	**62**
		F11-110-0.5	X	0.5	8/26/21	mg/kg	--	**9.6**	**29**
		F11-10-2.5		2.5	8/26/21	mg/kg	--	**6.9**	**6.8**
14 (Haz Waste Accumulation Area)	F14-1	F14-1-0.5		0.5	8/25/21	mg/kg	<0.081	<4.9	**6.5**
		F14-1-2.5		2.5	8/25/21	mg/kg	<0.097	<4.9	<4.9
17 (Maintenance Shop)	MS-10	MS-10-0.5		0.5	8/25/21	mg/kg	<0.097	**490**	**3200**
		MS-10-2.5		2.5	8/25/21	mg/kg	<0.090	<5.0	<5.0
		MS-10-5		5	8/25/21	mg/kg	<0.097	<4.9	**3.8 J**
	MS-11	MS-11-0.5		0.5	8/25/21	mg/kg	<0.092	**150**	**2300**
		MS-11-2.5		2.5	8/25/21	mg/kg	<0.11	**6.4**	**14**
		MS-11-5		5	8/25/21	mg/kg	**0.29**	**3.8 J**	**7.1**

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
17 (Maintenance Shop)	MS-12	MS-12-0.5		0.5	8/25/21	mg/kg	<0.10	<4.9	**7.8**
		MS-12-2.5		2.5	8/25/21	mg/kg	<0.10	**6.5**	**9.6**
		MS-12-5		5	8/25/21	mg/kg	<0.11	**9.6**	**36**
	MS-13	MS-13-0.5		0.5	8/26/21	mg/kg	<0.084	**57**	**530**
		MS-113-2.5	X	2.5	8/26/21	mg/kg	<0.095	<4.9	<4.9
		MS-13-2.5		2.5	8/26/21	mg/kg	<0.086	**20 J**	**170**
		MS-13-5		5	8/26/21	mg/kg	<0.089	**4.2 J**	**15**
	MS-14	MS-14-0.5		0.5	8/25/21	mg/kg	<0.084	**17**	**170**
		MS-14-2.5		2.5	8/25/21	mg/kg	<0.10	**9.8**	**49**
		MS-14-5		5	8/25/21	mg/kg	<0.089	<4.9	**5.6**
	MS-15	MS-15-0.5		0.5	8/26/21	mg/kg	<0.086	**31**	**280**
		MS-15-2.5		2.5	8/26/21	mg/kg	<0.091	**9.1**	**57**
		MS-15-5		5	8/26/21	mg/kg	<0.098	<4.8	<4.8
	MS-16	MS-116-0.5	X	0.5	8/24/21	mg/kg	<0.090	<100	**910**
		MS-16-0.5		0.5	8/24/21	mg/kg	<0.10	<99	**1600**
		MS-16-2.5		2.5	8/24/21	mg/kg	<0.10	<4.9	**8.5**
		MS-16-5		5	8/24/21	mg/kg	<0.099	<5.0	**14**
	MS-17	MS-17-0.5		0.5	8/24/21	mg/kg	<0.079	<4.9	<4.9
		MS-17-2.5		2.5	8/24/21	mg/kg	<0.11	<4.9	<4.9
		MS-17-5		5	8/24/21	mg/kg	<0.081	<4.9	<4.9
	MS-18	MS-18-0.5		0.5	8/24/21	mg/kg	<0.091	**22**	**73**
		MS-18-2.5		2.5	8/24/21	mg/kg	<0.095	<4.9	**7.7**
		MS-18-5		5	8/24/21	mg/kg	<0.096	**32**	**150**
	SS-1B	SS-1B-0.5		0.5	8/24/21	mg/kg	<0.082	**5.4**	**6.1**
		SS-1B-2.5		2.5	8/24/21	mg/kg	<0.088	**7.2**	**16**
		SS-1B-5		5	8/24/21	mg/kg	<0.087	<4.9	<4.9
	SS-4	SS-4-0.5		0.5	8/24/21	mg/kg	**0.087**	<4.9	**33**
		SS-4-2.5		2.5	8/24/21	mg/kg	<0.082	<4.9	<4.9
		SS-4-5		5	8/24/21	mg/kg	<0.077	<4.9	<4.9
	SS-5	SS-105-0.5	X	0.5	8/24/21	mg/kg	<0.085	<98	**1400**
		SS-5-0.5		0.5	8/24/21	mg/kg	<0.087	<97	**3000**
		SS-5-2.5		2.5	8/24/21	mg/kg	<0.091	<4.9	<4.9
		SS-5-5		5	8/24/21	mg/kg	<0.082	<98	**600**
	SS-6	SS-6-0.5		0.5	8/23/21	mg/kg	<0.076	<4.9	<4.9
		SS-6-2.5		2.5	8/23/21	mg/kg	<0.12	<4.9	<4.9
		SS-6-5		5	8/23/21	mg/kg	<0.083	<5.0	<5.0

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
17 (Maintenance Shop)	SS-7	SS-7-0.5		0.5	8/23/21	mg/kg	<0.087	<4.9	<4.9
		SS-7-2.5		2.5	8/23/21	mg/kg	<0.080	<4.9	<4.9
		SS-7-5		5	8/23/21	mg/kg	<0.085	<5.0	<5.0
	SS-8	SS-8-0.5		0.5	8/23/21	mg/kg	<0.085	<5.0	<5.0
		SS-108-2.5	X	2.5	8/23/21	mg/kg	<0.081	<4.9	<4.9
		SS-8-2.5		2.5	8/23/21	mg/kg	<0.085	<120	<120
		SS-8-5		5	8/23/21	mg/kg	<0.090	<4.9	<4.9
	SS-9	SS-9-0.5		0.5	8/23/21	mg/kg	<0.078	<5.0	<5.0
		SS-9-2.5		2.5	8/23/21	mg/kg	<0.072	<5.0	<5.0
		SS-9-5		5	8/23/21	mg/kg	<0.081	<5.0	<5.0
	SS-10	SS-10-0.5		0.5	8/23/21	mg/kg	**0.048 J**	**260**	**1900**
		SS-10-2.5		2.5	8/23/21	mg/kg	<0.076	<5.0	<5.0
		SS-10-5		5	8/23/21	mg/kg	<0.078	<5.0	**6.9**
	SS-11	SS-11-0.5		0.5	8/25/21	mg/kg	<0.079	**8.7**	**40**
		SS-11-2.5		2.5	8/25/21	mg/kg	<0.084	<4.9	**7.7**
		SS-111-5	X	5	8/25/21	mg/kg	<0.13	<4.9	**5.4**
		SS-11-5		5	8/25/21	mg/kg	<0.10	**8.2**	**9.5**
	SS-12	SS-12-0.5		0.5	8/24/21	mg/kg	<0.089	<4.9	<4.9
		SS-12-2.5		2.5	8/24/21	mg/kg	<0.085	**7.0**	**64**
		SS-12-5		5	8/24/21	mg/kg	<0.090	<4.9	<4.9
21 (Cooling Tower Makeup Water Pond)	F21-T1-1	F21-T1-1-0.5		0.5	8/31/21	mg/kg	<0.083	<5.0	<5.0
		F21-T1-1-2.5		2.5	8/31/21	mg/kg	<0.080	<5.0	<5.0
	F21-T1-2	F21-T1-2-0.5		0.5	8/31/21	mg/kg	<0.090	**4.0 J**	**6.0**
		F21-T1-2-2.5		2.5	8/31/21	mg/kg	<0.096	<4.9	**4.0 J**
	F21-T2-1	F21-T2-1-0.5		0.5	9/1/21	mg/kg	<0.084	<5.0	**12**
		F21-T2-1-2.5		2.5	9/1/21	mg/kg	<0.083	<5.0	<5.0
	F21-T2-2	F21-T2-2-0.5		0.5	9/1/21	mg/kg	<0.089	<5.0	<5.0
		F21-T2-2-2.5		2.5	9/1/21	mg/kg	<0.084	<5.0	<5.0
25 (Units 3/4 Transformers)	T3-4-1	T3-4-1-0.5		0.5	9/1/21	mg/kg	<0.086	<5.0	**5.8**
		T3-4-1-2.5		2.5	9/1/21	mg/kg	<0.082	<5.0	<5.0
	T3-4-2	T3-4-2-0.5		0.5	9/1/21	mg/kg	<0.089	**110**	**66**
		T3-4-2-2.5		2.5	9/1/21	mg/kg	<0.099	<5.0	<5.0
	T3-4-3	T3-4-3-0.5		0.5	9/1/21	mg/kg	<0.091	**30**	**27**
		T3-4-3-2.5		2.5	9/1/21	mg/kg	**0.097 J**	**14**	**14**

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
25 (Units 3/4 Transformers)	T3-4-4	T3-4-4-0.5		0.5	9/2/21	mg/kg	**0.055 J**	**3000**	**530**
		T3-4-4-2.5		2.5	9/2/21	mg/kg	**0.16**	**6.1**	**5.6**
	T3-4-4SW	T3-4-4SW-0.5		0.5	9/16/21	mg/kg	--	**180**	**140**
	T3-4-4SE	T3-4-4SE-0.5		0.5	9/16/21	mg/kg	--	**24**	**21**
	T3-4-5	T3-4-5-0.5		0.5	9/2/21	mg/kg	**0.070 J**	**6300**	**1000**
		T3-4-5-2.5		2.5	9/2/21	mg/kg	<0.094	**170**	**84**
	T3-4-5NW	T3-4-5NW-0.5		0.5	9/16/21	mg/kg	--	**330**	**85**
	T3-4-5SW	T3-4-105SW-0.5	X	0.5	9/16/21	mg/kg	--	<5.0	<5.0
		T3-4-5SW-0.5		0.5	9/16/21	mg/kg	--	<5.0	<5.0
	T3-4-6	T3-4-6-0.5		0.5	9/2/21	mg/kg	**0.072 J**	<4.9	<4.9
		T3-4-6-2.5		2.5	9/2/21	mg/kg	<0.10	<4.9	**4.3 J**
	T3-4-7	T3-4-7-0.5		0.5	9/2/21	mg/kg	<0.10	<5.0	<5.0
		T3-4-7-2.5		2.5	9/2/21	mg/kg	<0.086	<5.0	<5.0
	T3-4-8	T3-4-8-0.5		0.5	9/2/21	mg/kg	<0.085	**93**	**66**
		T3-4-8-2.5		2.5	9/2/21	mg/kg	<0.10	**4.5 J**	**7.2**
	T3-4-9	T3-4-9-0.5		0.5	9/2/21	mg/kg	<0.079	<4.9	<4.9
		T3-4-109-2.5	X	2.5	9/2/21	mg/kg	<0.086	<5.0	<5.0
		T3-4-9-2.5		2.5	9/2/21	mg/kg	<0.078	<4.9	<4.9
	T3-4-10	T3-4-10-0.5		0.5	9/2/21	mg/kg	<0.086	<4.9	<4.9
		T3-4-10-2.5		2.5	9/2/21	mg/kg	<0.085	<5.0	**5.8**
	T3-4-11	T3-4-11-0.5		0.5	9/2/21	mg/kg	<0.084	<4.9	<4.9
		T3-4-11-2.5		2.5	9/2/21	mg/kg	<0.077	<4.9	<4.9
	T3-4-12	T3-4-12-0.5		0.5	9/2/21	mg/kg	<0.094	<5.0	<5.0
		T3-4-12-2.5		2.5	9/2/21	mg/kg	<0.088	<4.9	<4.9
	T3-4-13	T3-4-13-0.5		0.5	9/1/21	mg/kg	<0.091	<5.0	**32**
		T3-4-13-2.5		2.5	9/1/21	mg/kg	<0.085	<5.0	**5.5**
	T3-4-14	T3-4-14-0.5		0.5	9/1/21	mg/kg	<0.083	**81**	**700**
		T3-4-14-2.5		2.5	9/1/21	mg/kg	<0.082	<5.0	**32**
	T3-4-15	T3-4-15-0.5		0.5	9/1/21	mg/kg	<0.083	**470**	**330**
		T3-4-15-2.5		2.5	9/1/21	mg/kg	<0.081	**570**	**110**
	T3-4-16	T3-4-16-0.5		0.5	9/1/21	mg/kg	<0.078	<5.0	**5.7**
		T3-4-16-2.5		2.5	9/1/21	mg/kg	<0.079	<5.0	**5.9**
26 (Units 1/2 Transformers)	T1-2-1	T1-2-1-0.5		0.5	8/30/21	mg/kg	<0.087	<5.0	<5.0
		T1-2-1-2.5		2.5	8/30/21	mg/kg	<0.084	<5.0	<5.0
	T1-2-2	T1-2-2-0.5		0.5	8/30/21	mg/kg	<0.12	<5.0	**4.8 J**
		T1-2-2-2.5		2.5	8/30/21	mg/kg	<0.099	**8.8**	**14**

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
26 (Units 1/2 Transformers)	T1-2-3	T1-2-3-0.5		0.5	8/30/21	mg/kg	<0.12	<5.0	**4.4 J**
		T1-2-3-2.5		2.5	8/30/21	mg/kg	<0.10	<4.9	**7.4**
	T1-2-4	T1-2-4-0.5		0.5	8/30/21	mg/kg	<0.10	<4.9	**5.0**
		T1-2-4-2.5		2.5	8/30/21	mg/kg	<0.091	**11**	**24**
	T1-2-5	T1-2-5-0.5		0.5	8/30/21	mg/kg	<0.10	<4.9	**12**
		T1-2-5-2.5		2.5	8/30/21	mg/kg	<0.086	<4.9	**6.0**
	T1-2-6	T1-2-6-0.5		0.5	8/30/21	mg/kg	<0.097	<4.9	**11**
		T1-2-6-2.5		2.5	8/30/21	mg/kg	<0.10	<4.9	**8.7**
	T1-2-7	T1-2-7-0.5		0.5	8/30/21	mg/kg	<0.088	**4.8 J**	**13**
		T1-2-7-2.5		2.5	8/30/21	mg/kg	<0.13	<5.0	<5.0
	T1-2-8	T1-2-8-0.5		0.5	8/30/21	mg/kg	<0.084	<5.0	<5.0
		T1-2-8-2.5		2.5	8/30/21	mg/kg	<0.090	<5.0	<5.0
	T1-2-9	T1-2-9-0.5		0.5	8/30/21	mg/kg	<0.10	<5.0	**4.8 J**
		T1-2-9-2.5		2.5	8/30/21	mg/kg	<0.090	<5.0	**4.5 J**
	T1-2-10	T1-2-10-0.5		0.5	8/30/21	mg/kg	<0.088	<4.9	**4.6 J**
		T1-2-10-2.5		2.5	8/30/21	mg/kg	<0.091	<4.9	**5.4**
	T1-2-11	T1-2-11-0.5		0.5	8/30/21	mg/kg	<0.090	<5.0	<5.0
		T1-2-11-2.5		2.5	8/30/21	mg/kg	<0.097	<5.0	<5.0
	T1-2-12	T1-2-12-0.5		0.5	8/30/21	mg/kg	<0.089	<4.9	**8.1**
		T1-2-12-2.5		2.5	8/30/21	mg/kg	<0.092	<4.9	<4.9
	T1-2-13	T1-2-13-0.5		0.5	8/31/21	mg/kg	<0.082	**130**	**150**
		T1-2-13-2.5		2.5	8/31/21	mg/kg	<0.081	**51**	**48**
	T1-2-14	T1-2-14-0.5		0.5	8/31/21	mg/kg	<0.080	**96**	**110**
		T1-2-14-2.5		2.5	8/31/21	mg/kg	<0.081	<5.0	**7.1**
	T1-2-15	T1-2-15-0.5		0.5	8/31/21	mg/kg	<0.084	**110**	**240**
		T1-2-15-2.5		2.5	8/31/21	mg/kg	<0.082	**100**	**240**
	T1-2-16	T1-2-16-0.5		0.5	8/31/21	mg/kg	<0.082	**94**	**60**
		T1-2-16-2.5		2.5	8/31/21	mg/kg	<0.088	**38**	**41**
	T1-2-17	T1-2-17-0.5		0.5	8/31/21	mg/kg	<0.080	<4.9	**9.5**
	T1-2-18	T1-2-18-0.5		0.5	8/31/21	mg/kg	<0.080	<4.9	<4.9
		T1-2-18-2.5		2.5	8/31/21	mg/kg	<0.096	**37**	**62**

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
26 (Units 1/2 Transformers)	T1-2-19	T1-2-19-0.5		0.5	8/30/21	mg/kg	<0.084	**88**	**86**
		T1-2-19-2.5		2.5	8/30/21	mg/kg	<0.077	**53**	**56**
	T1-2-20	T1-2-20-0.5		0.5	8/30/21	mg/kg	<0.083	**44**	**50**
		T1-2-20-2.5		2.5	8/30/21	mg/kg	<0.10	**4.1 J**	<4.9
	T1-2-21	T1-2-21-0.5		0.5	8/30/21	mg/kg	<0.084	**7.5**	**12**
		T1-2-21-2.5		2.5	8/30/21	mg/kg	<0.086	**21**	**28**
	T1-2-22	T1-2-22-0.5		0.5	8/30/21	mg/kg	<0.11	**95**	**75**
		T1-2-22-2.5		2.5	8/30/21	mg/kg	<0.099	**40**	**30**
	T1-2-23	T1-2-23-0.5		0.5	8/30/21	mg/kg	<0.079	**5.5**	**36**
		T1-2-123-2.5	X	2.5	8/30/21	mg/kg	<0.086	**6.6**	**6.9**
		T1-2-23-2.5		2.5	8/30/21	mg/kg	<0.087	**3.8 J**	**8.1**
	T1-2-24	T1-2-24-0.5		0.5	8/30/21	mg/kg	<0.087	**26**	**45**
		T1-2-24-2.5		2.5	8/30/21	mg/kg	<0.11	**4.6 J**	**5.3**
	T1-2-25	T1-2-25-0.5		0.5	8/30/21	mg/kg	<0.079	**43**	**54**
	T1-2-26	T1-2-26-0.5		0.5	8/30/21	mg/kg	<0.085	**40**	**42**
		T1-2-26-2.5		2.5	8/30/21	mg/kg	<0.093	**170**	**61**
	T1-2-27	T1-2-27-0.5		0.5	8/30/21	mg/kg	<0.080	**53**	**51**
		T1-2-27-2.5		2.5	8/30/21	mg/kg	<0.080	<4.9	<4.9
	T1-2-28	T1-2-28-0.5		0.5	8/30/21	mg/kg	<0.083	**6.6**	**5.3**
		T1-2-28-2.5		2.5	8/30/21	mg/kg	<0.084	<4.9	<4.9
	T1-2-29	T1-2-29-0.5		0.5	8/26/21	mg/kg	<0.085	**7.1**	**9.5**
		T1-2-29-2.5		2.5	8/26/21	mg/kg	<0.083	**6.0**	**4.5 J**
	T1-2-30	T1-2-30-0.5		0.5	8/26/21	mg/kg	<0.083	**7.0**	**6.6**
	T1-2-31	T1-2-31-0.5		0.5	8/26/21	mg/kg	<0.096	**6.4**	**5.3**
	T1-2-32	T1-2-32-0.5		0.5	8/26/21	mg/kg	<0.078	**790**	**380**
		T1-2-32-2.5		2.5	8/26/21	mg/kg	<0.081	**5.2**	**4.8 J**
36 (Former Haz Waste Accumulation Area)	F36-1	F36-1-0.5		0.5	8/24/21	mg/kg	<0.083	<5.0	<5.0
		F36-1-2.5		2.5	8/24/21	mg/kg	<0.092	**6.9**	**9.6**
	F36-2	F36-2-0.5		0.5	8/24/21	mg/kg	<0.091	**9.1**	**12**
		F36-2-2.5		2.5	8/24/21	mg/kg	<0.092	<4.9	<4.9
	F36-3	F36-3-0.5		0.5	8/25/21	mg/kg	<0.095	**4.0 J**	**5.0**
		F36-3-2.5		2.5	8/25/21	mg/kg	<0.094	<4.9	**5.1**

Table 2
RFI Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	Total Petroleum Hydrocarbons (TPH) EPA Method 8015B		
							TPH Gasoline C4-C12	TPH Diesel C13-C22	TPH Motor Oil C23-C32
SFBRWQCB ESLs Commercial/Industrial Shallow Soil Exposure (2019)							2,000	1,200	180,000
LARWQCB SSLs for Protection of Groundwater (1996)							1,000	10,000	50,000
Equipment Rinsate Blanks									
--	--	EB-B-082321		--	8/23/21	µg/L	<50	<46	<46
--	--	EB-A-082421		--	8/24/21	µg/L	<50	<50	<50
--	--	EB-B-082521		--	8/25/21	µg/L	<50	<46	<46
--	--	EB-A-082721		--	8/27/21	µg/L	<50	--	--
--	--	EB-B-083021		--	8/30/21	µg/L	<50	--	--
--	--	EB-A-083121		--	8/31/21	µg/L	<50	<48	<48
--	--	EB-B-083121		--	8/31/21	µg/L	--	<46	<46
--	--	EB-A1-090121		--	9/1/21	µg/L	<50	<48	<48
--	--	EB-B-090121		--	9/1/21	µg/L	<50	<48	**36 J**
--	--	EB-A2-090221		--	9/2/21	µg/L	<50	<48	<48
--	--	EB-A-091621		--	9/16/21	µg/L	--	<48	<48

NOTES:

	Concentration exceeds a regulatory screening level
792	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
<0.050	Denotes analyte not detected above the posted Reporting Limit (RL)
J	Concentration is below the RL but above the MDL so the result represents an estimated value
--	Not analyzed or No Published Value
mg/kg	Milligrams per kilogram
Dup	Field duplicate samples are identified in this column with an "X"
SFBRWQCB ESLs	San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (Updated July 2019)
LARWQCB SSLs	Los Angeles Regional Water Quality Control Board soil screening levels for protection of groundwater (May 1996)

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
EPA RSL Industrial (May 2023)							8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	--	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000	--	23,000,000	11,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							8,800	--	2,700	--	--	16,000	--	--	--	21	35,000	--	57	160	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,700,000	7,200,000	4,300,000	--	--	7,100,000	350,000	--	300,000	21,000	260,000	--	25,000	30,000	--	--	--	--	--	2,200,000	--
RFI Sample Results																											
5 (Fueling Station)	F5-1	F5-1-2.5		2.5	8/27/21	µg/kg	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93
		F5-1-5		5	8/27/21	µg/kg	<1.2	<1.2	<2.3	<12	<1.2	<1.2	<1.2	<2.3	<2.3	<2.3	<2.3	<2.3	<12	<1.2	<1.2	<1.2	<1.2	<2.3	<1.2	<1.2	<1.2
	F5-2	F5-2-2.5		2.5	8/27/21	µg/kg	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<8.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87
		F5-2-5		5	8/27/21	µg/kg	<1.6	<1.6	<3.1	<16	<1.6	<1.6	<1.6	<3.1	<3.1	<3.1	<3.1	<3.1	<16	<1.6	<1.6	<1.6	<1.6	<3.1	<1.6	<1.6	<1.6
6 (Unit 5 Peaker)	P-1	P-1-2.5		2.5	8/23/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
		P-1-5		5	8/23/21	µg/kg	<0.79	<0.79	<1.6	<7.9	<0.79	<0.79	<0.79	<1.6	<1.6	<1.6	<1.6	<1.6	<7.9	<0.79	<0.79	<0.79	<0.79	<1.6	<0.79	<0.79	<0.79
		P-1-10		10	8/23/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
	P-1B	P-1B-20		20	9/2/21	µg/kg	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93
		P-1B-40		40	9/2/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
	P-5	P-5-5		5	9/1/21	µg/kg	<1.1	<1.1	<2.2	<11	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1
		P-5-20		20	9/1/21	µg/kg	<0.85	<0.85	<1.7	<8.5	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<8.5	<0.85	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85
	P-6	P-106-5	X	5	9/1/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
		P-6-5		5	9/1/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
		P-6-20		20	9/1/21	µg/kg	<1.3	<1.3	<2.6	<13	<1.3	<1.3	<1.3	<2.6	<2.6	<2.6	<2.6	<2.6	<13	<1.3	<1.3	<1.3	<1.3	<2.6	<1.3	<1.3	<1.3
	P-8	P-8-5		5	9/10/21	µg/kg	<0.97	<0.97	<1.9	<9.7	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<9.7	<0.97	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97
		P-8-20		20	9/10/21	µg/kg	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<8.2	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82
	P-9	P-9-5		5	9/10/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
		P-9-20		20	9/10/21	µg/kg	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<7.7	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	<0.77
	PT1-2	PT1-2-0.5		0.5	8/24/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
	PT1-3	PT1-3-0.5		0.5	8/24/21	µg/kg	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93
	PT2-1	PT2-1-0.5		0.5	8/23/21	µg/kg	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<8.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	8/26/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		F11-101-0.5	X	0.5	8/26/21	µg/kg	<1.0	<1.0	<2.1	<10	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<10	<1.0	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0
		F11-1-2.5		2.5	8/26/21	µg/kg	<1.1	<1.1	<2.2	<11	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1
	F11-10	F11-10-0.5		0.5	8/26/21	µg/kg	<0.83	<0.83	<1.7	<8.3	<0.83	<0.83	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<8.3	<0.83	<0.83	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83
		F11-110-0.5	X	0.5	8/26/21	µg/kg	<0.91	<0.91	<1.8	<9.1	<0.91	<0.91	<0.91	<1.8	<1.8	<1.8	<1.8	<1.8	<9.1	<0.91	<0.91	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91
		F11-10-2.5		2.5	8/26/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
	F11-2A	F11-2A-0.5		0.5	8/26/21	µg/kg	<0.98	<0.98	<2.0	<9.8	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<9.8	<0.98	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98
		F11-2A-2.5		2.5	8/26/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
	F11-2B	F11-2B-0.5		0.5	8/26/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
		F11-2B-2.5		2.5	8/26/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
	F11-3	F11-3-0.5		0.5	8/26/21	µg/kg	<0.96	<0.96	<1.9	<9.6	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<9.6	<0.96	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96
		F11-3-2.5		2.5	8/26/21	µg/kg	<1.1	<1.1	<2.2	<11	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1
	F11-4	F11-4-0.5		0.5	8/31/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
		F11-4-2.5		2.5	8/31/21	µg/kg	<0.98	<0.98	<2.0	<9.8	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<9.8	<0.98	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98
	F11-5	F11-105-0.5	X	0.5	8/31/21	µg/kg	<1.0	<1.0	<2.1	<10	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<10	<1.0	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0
		F11-5-0.5		0.5	8/31/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
11 (Chadwick Channel)	F11-5	F11-5-2.5		2.5	8/31/21	µg/kg	<0.99	<0.99	<2.0	<9.9	<0.99	<0.99	<0.99	<2.0	<2.0	<2.0	<2.0	<2.0	<9.9	<0.99	<0.99	<0.99	<0.99	<2.0	<0.99	<0.99	<0.99
	F11-6	F11-6-0.5		0.5	8/31/21	µg/kg	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<7.7	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	<0.77
		F11-6-2.5		2.5	8/31/21	µg/kg	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<8.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87
	F11-7	F11-7-0.5		0.5	8/31/21	µg/kg	<0.96	<0.96	<1.9	<9.6	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<9.6	<0.96	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96
		F11-7-2.5		2.5	8/31/21	µg/kg	<0.99	<0.99	<2.0	<9.9	<0.99	<0.99	<0.99	<2.0	<2.0	<2.0	<2.0	<2.0	<9.9	<0.99	<0.99	<0.99	<0.99	<2.0	<0.99	<0.99	<0.99
	F11-8	F11-8-0.5		0.5	8/31/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
		F11-8-2.5		2.5	8/31/21	µg/kg	<1.0	<1.0	<2.1	<10	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<10	<1.0	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0
	F11-9	F11-9-0.5		0.5	8/26/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
EPA RSL Industrial (May 2023)							8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	--	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000	--	23,000,000	11,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							8,800	--	2,700	--	--	16,000	--	--	--	21	35,000	--	57	160	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,700,000	7,200,000	4,300,000	--	--	7,100,000	350,000	--	300,000	21,000	260,000	--	25,000	30,000	--	--	--	--	--	2,200,000	--
14 (Haz Waste Accumulation Area)	F14-1	F14-1-0.5		0.5	8/25/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		F14-1-2.5		2.5	8/25/21	µg/kg	<0.95	<0.95	<1.9	<9.5	<0.95	<0.95	<0.95	<1.9	<1.9	<1.9	<1.9	<1.9	<9.5	<0.95	<0.95	<0.95	<0.95	<1.9	<0.95	<0.95	<0.95
17 (Maintenance Shop)	MS-10	MS-10-0.5		0.5	8/25/21	µg/kg	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93
		MS-10-2.5		2.5	8/25/21	µg/kg	<0.78	<0.78	<1.6	<7.8	<0.78	<0.78	<0.78	<1.6	<1.6	<1.6	<1.6	<1.6	<7.8	<0.78	<0.78	<0.78	<0.78	<1.6	<0.78	<0.78	<0.78
		MS-10-5		5	8/25/21	µg/kg	<1.1	<1.1	<2.2	<11	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1
		MS-10-10		10	8/25/21	µg/kg	<1.2	<1.2	<2.4	<12	<1.2	<1.2	<1.2	<2.4	<2.4	<2.4	<2.4	<2.4	<12	<1.2	<1.2	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2
		MS-10-20		20	8/25/21	µg/kg	<1.4	<1.4	<2.7	<14	<1.4	<1.4	<1.4	<2.7	<2.7	<2.7	<2.7	<2.7	<14	<1.4	<1.4	<1.4	<1.4	<2.7	<1.4	<1.4	<1.4
	MS-11	MS-11-0.5		0.5	8/25/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
		MS-11-2.5		2.5	8/25/21	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
		MS-11-5		5	8/25/21	µg/kg	<0.99	<0.99	<2.0	<9.9	<0.99	<0.99	<0.99	<2.0	<2.0	<2.0	<2.0	<2.0	<9.9	<0.99	<0.99	<0.99	<0.99	<2.0	<0.99	<0.99	<0.99
		MS-11-10		10	8/25/21	µg/kg	<0.96	<0.96	<1.9	<9.6	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<9.6	<0.96	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96
		MS-111-10	X	10	8/25/21	µg/kg	<1.2	<1.2	<2.3	<12	<1.2	<1.2	<1.2	<2.3	<2.3	<2.3	<2.3	<2.3	<12	<1.2	<1.2	<1.2	<1.2	<2.3	<1.2	<1.2	<1.2
		MS-11-20		20	8/25/21	µg/kg	<1.1	<1.1	<2.2	<11	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1
	MS-12	MS-12-0.5		0.5	8/25/21	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
		MS-12-2.5		2.5	8/25/21	µg/kg	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
		MS-12-5		5	8/25/21	µg/kg	<1.5	<1.5	<3.0	<15	<1.5	<1.5	<1.5	<3.0	<3.0	<3.0	<3.0	<3.0	<15	<1.5	<1.5	<1.5	<1.5	<3.0	<1.5	<1.5	<1.5
		MS-12-10		10	8/25/21	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
		MS-12-20		20	8/25/21	µg/kg	<0.98	<0.98	<2.0	<9.8	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<9.8	<0.98	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98
	MS-13	MS-13-0.5		0.5	8/26/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
		MS-113-2.5	X	2.5	8/26/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
		MS-13-2.5		2.5	8/26/21	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
		MS-13-5		5	8/26/21	µg/kg	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93
		MS-13-10		10	8/26/21	µg/kg	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<8.2	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82
		MS-13-20		20	8/26/21	µg/kg	<1.2	<1.2	<2.4	<12	<1.2	<1.2	<1.2	<2.4	<2.4	<2.4	<2.4	<2.4	<12	<1.2	<1.2	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2
	MS-13B	MS-13B-35		35	9/2/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
		MS-13B-50		50	9/2/21	µg/kg	<1.0	<1.0	<2.1	<10	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<10	<1.0	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0
	MS-14	MS-14-0.5		0.5	8/25/21	µg/kg	<0.91	<0.91	<1.8	<9.1	<0.91	<0.91	<0.91	<1.8	<1.8	<1.8	<1.8	<1.8	<9.1	<0.91	<0.91	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91
		MS-14-2.5		2.5	8/25/21	µg/kg	<0.97	<0.97	<1.9	<9.7	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<9.7	<0.97	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97
		MS-14-5		5	8/25/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
17 (Maintenance Shop)	MS-15	MS-15-0.5		0.5	8/26/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
		MS-15-2.5		2.5	8/26/21	µg/kg	<0.96	<0.96	<1.9	<9.6	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<9.6	<0.96	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96
		MS-15-5		5	8/26/21	µg/kg	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
		MS-15-10		10	8/26/21	µg/kg	<1.3	<1.3	<2.6	<13	<1.3	<1.3	<1.3	<2.6	<2.6	<2.6	<2.6	<2.6	<13	<1.3	<1.3	<1.3	<1.3	<2.6	<1.3	<1.3	<1.3
		MS-15-20		20	8/26/21	µg/kg	<0.97	<0.97	<1.9	<9.7	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<9.7	<0.97	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97
	MS-16	MS-116-0.5	X	0.5	8/24/21	µg/kg	<0.81	<0.81	<1.6	<8.1	<0.81	<0.81	<0.81	<1.6	<1.6	<1.6	<1.6	<1.6	<8.1	<0.81	<0.81	<0.81	<0.81	<1.6	<0.81	<0.81	<0.81
		MS-16-0.5		0.5	8/24/21	µg/kg	<0.79	<0.79	<1.6	<7.9	<0.79	<0.79	<0.79	<1.6	<1.6	<1.6	<1.6	<1.6	<7.9	<0.79	<0.79	<0.79	<0.79	<1.6	<0.79	<0.79	<0.79
		MS-16-2.5		2.5	8/24/21	µg/kg	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<8.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87
		MS-16-5		5	8/24/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
		MS-16-10		10	8/24/21	µg/kg	<1.2	<1.2	<2.3	<12	<1.2	<1.2	<1.2	<2.3	<2.3	<2.3	<2.3	<2.3	<12	<1.2	<1.2	<1.2	<1.2	<2.3	<1.2	<1.2	<1.2
		MS-16-20		20	8/24/21	µg/kg	<1.1	<1.1	<2.3	<11	<1.1	<1.1	<1.1	<2.3	<2.3	<2.3	<2.3	<2.3	<11	<1.1	<1.1	<1.1	<1.1	<2.3	<1.1	<1.1	<1.1

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
EPA RSL Industrial (May 2023)							8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	--	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000	--	23,000,000	11,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							8,800	--	2,700	--	--	16,000	--	--	--	21	35,000	--	57	160	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,700,000	7,200,000	4,300,000	--	--	7,100,000	350,000	--	300,000	21,000	260,000	--	25,000	30,000	--	--	--	--	--	2,200,000	--
17 (Maintenance Shop)	MS-17	MS-17-0.5		0.5	8/24/21	µg/kg	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<8.2	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82
		MS-17-2.5		2.5	8/24/21	µg/kg	<1.3	<1.3	<2.6	<13	<1.3	<1.3	<1.3	<2.6	<2.6	<2.6	<2.6	<2.6	<13	<1.3	<1.3	<1.3	<1.3	<2.6	<1.3	<1.3	<1.3
		MS-17-5		5	8/24/21	µg/kg	<1.3	<1.3	<2.7	<13	<1.3	<1.3	<1.3	<2.7	<2.7	<2.7	<2.7	<2.7	<13	<1.3	<1.3	<1.3	<1.3	<2.7	<1.3	<1.3	<1.3
		MS-117-10	X	10	8/24/21	µg/kg	<0.78	<0.78	<1.6	<7.8	<0.78	**0.62 J**	<0.78	<1.6	<1.6	<1.6	<1.6	<1.6	<7.8	<0.78	<0.78	<0.78	<0.78	<1.6	<0.78	<0.78	<0.78
		MS-17-10		10	8/24/21	µg/kg	<0.83	<0.83	<1.7	<8.3	<0.83	**0.51 J**	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<8.3	<0.83	<0.83	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83
		MS-17-20		20	8/24/21	µg/kg	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<8.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87
	MS-17B	MS-17B-40		40	9/2/21	µg/kg	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
		MS-17B-60		60	9/2/21	µg/kg	<0.97	<0.97	<1.9	<9.7	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<9.7	<0.97	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97
	MS-18	MS-18-0.5		0.5	8/24/21	µg/kg	<0.85	<0.85	<1.7	<8.5	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<8.5	<0.85	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85
		MS-18-2.5		2.5	8/24/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
		MS-18-5		5	8/24/21	µg/kg	<0.98	<0.98	<2.0	<9.8	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<9.8	<0.98	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98
	MS-19	MS-19-5		5	9/1/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
		MS-19-20		20	9/1/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
	MS-20	MS-20-5		5	9/1/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
		MS-20-20		20	9/1/21	µg/kg	<0.69	<0.69	<1.4	<6.9	<0.69	<0.69	<0.69	<1.4	<1.4	<1.4	<1.4	<1.4	<6.9	<0.69	<0.69	<0.69	<0.69	<1.4	<0.69	<0.69	<0.69
	MS-21	MS-21-5		5	9/10/21	µg/kg	<0.91	<0.91	<1.8	<9.1	<0.91	<0.91	<0.91	<1.8	<1.8	<1.8	<1.8	<1.8	<9.1	<0.91	<0.91	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91
		MS-21-20		20	9/10/21	µg/kg	<0.71	<0.71	<1.4	<7.1	<0.71	<0.71	<0.71	<1.4	<1.4	<1.4	<1.4	<1.4	<7.1	<0.71	<0.71	<0.71	<0.71	<1.4	<0.71	<0.71	<0.71
	MS-22	MS-22-5		5	10/14/21	µg/kg	<1.0	<1.0	<2.1	<10	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<10	<1.0	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0
		MS-22-20		20	10/14/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
	MS-23	MS-123-5	X	5	10/14/22	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		MS-23-5		5	10/14/22	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
		MS-23-20		20	10/14/22	µg/kg	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93
	MS-23B	MS-23B-40		40	11/5/22	µg/kg	<0.91	<0.91	<1.8	<9.1	<0.91	<0.91	<0.91	<1.8	<1.8	<1.8	<1.8	<1.8	<9.1	<0.91	<0.91	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91
		MS-23B-60		60	11/5/22	µg/kg	<0.85	<0.85	<1.7	<8.5	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<8.5	<0.85	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85
		MS-23B-80		80	11/5/22	µg/kg	<0.79	<0.79	<1.6	<7.9	<0.79	<0.79	<0.79	<1.6	<1.6	<1.6	<1.6	<1.6	<7.9	<0.79	<0.79	<0.79	<0.79	<1.6	<0.79	<0.79	<0.79
		MS-23B-100		100	11/5/22	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
	MS-23C	MS-23C-125		125	1/3/22	µg/kg	<0.96	<0.96	<1.9	<9.6	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<9.6	<0.96	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96
		MS-23C-150		150	1/4/22	µg/kg	<0.83	<0.83	<1.7	<8.3	<0.83	<0.83	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<8.3	<0.83	<0.83	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83
		MS-23C-190		190	1/5/22	µg/kg	<1.2	<1.2	<2.4	<12	<1.2	<1.2	<1.2	<2.4	<2.4	<2.4	<2.4	<2.4	<12	<1.2	<1.2	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2
		MS-23C-200		200	1/5/22	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
	MS-24	MS-24-20		20	10/14/22	µg/kg	<1.1	<1.1	<2.1	<11	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<11	<1.1	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1
	MS-25	MS-25-20		20	10/14/22	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
	MS-26	MS-26-20		20	10/15/22	µg/kg	<0.95	<0.95	<1.9	<9.5	<0.95	<0.95	<0.95	<1.9	<1.9	<1.9	<1.9	<1.9	<9.5	<0.95	<0.95	<0.95	<0.95	<1.9	<0.95	<0.95	<0.95
	MS-27	MS-27-5		5	10/15/22	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		MS-127-20	X	20	10/15/22	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
		MS-27-20		20	10/15/22	µg/kg	<0.98	<0.98	<2.0	<9.8	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<9.8	<0.98	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98
	MS-28	MS-28-5		5	11/5/22	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
	MS-29	MS-29-20		20	2/8/22	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
	MS-30	MS-30-20		20	2/8/22	µg/kg	<0.80	<0.80	<1.6	<8.0	<0.80	<0.80	<0.80	<1.6	<1.6	<1.6	<1.6	<1.6	<8.0	<0.80	<0.80	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80
	MS-31	MS-31-20		20	2/8/22	µg/kg	<0.83	<0.83	<1.7	<8.3	<0.83	<0.83	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<8.3	<0.83	<0.83	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83
	MS-32	MS-32-5		5	2/11/22	µg/kg	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<8.2	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82
		MS-32-20		20	2/11/22	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
EPA RSL Industrial (May 2023)							8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	--	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000	--	23,000,000	11,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							8,800	--	2,700	--	--	16,000	--	--	--	21	35,000	--	57	160	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,700,000	7,200,000	4,300,000	--	--	7,100,000	350,000	--	300,000	21,000	260,000	--	25,000	30,000	--	--	--	--	--	2,200,000	--
17 (Maintenance Shop)	SS-1B	SS-1B-0.5		0.5	8/24/21	µg/kg	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<8.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87
		SS-1B-2.5		2.5	8/24/21	µg/kg	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<7.7	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	<0.77
		SS-1B-5		5	8/24/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
		SS-1B-10		10	8/24/21	µg/kg	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
		SS-1B-20		20	8/24/21	µg/kg	<0.97	<0.97	<1.9	<9.7	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<9.7	<0.97	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97
	SS-4	SS-4-0.5		0.5	8/24/21	µg/kg	<0.73	<0.73	<1.5	<7.3	<0.73	<0.73	<0.73	<1.5	<1.5	<1.5	<1.5	<1.5	<7.3	<0.73	<0.73	<0.73	<0.73	<1.5	<0.73	<0.73	<0.73
		SS-4-2.5		2.5	8/24/21	µg/kg	<0.95	<0.95	<1.9	<9.5	<0.95	<0.95	<0.95	<1.9	<1.9	<1.9	<1.9	<1.9	<9.5	<0.95	<0.95	<0.95	<0.95	<1.9	<0.95	<0.95	<0.95
		SS-4-5		5	8/24/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		SS-4-10		10	8/24/21	µg/kg	<0.97	<0.97	<1.9	<9.7	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<9.7	<0.97	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97
		SS-4-20		20	8/24/21	µg/kg	<1.2	<1.2	<2.4	<12	<1.2	<1.2	<1.2	<2.4	<2.4	<2.4	<2.4	<2.4	<12	<1.2	<1.2	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2
	SS-5	SS-105-0.5	X	0.5	8/24/21	µg/kg	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<8.2	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82
		SS-5-0.5		0.5	8/24/21	µg/kg	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93
		SS-5-2.5		2.5	8/24/21	µg/kg	<0.80	<0.80	<1.6	<8.0	<0.80	<0.80	<0.80	<1.6	<1.6	<1.6	<1.6	<1.6	<8.0	<0.80	<0.80	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80
		SS-5-5		5	8/24/21	µg/kg	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<7.7	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	<0.77
	SS-6	SS-6-0.5		0.5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<7.5	<0.75	<0.75	<0.75	<1.5	<1.5	<1.5	<1.5	<1.5	<7.5	<0.75	<0.75	<0.75	<0.75	<1.5	<0.75	<0.75	<0.75
		SS-6-2.5		2.5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<7.5	<0.75	<0.75	<0.75	<1.5	<1.5	<1.5	<1.5	<1.5	<7.5	<0.75	<0.75	<0.75	<0.75	<1.5	<0.75	<0.75	<0.75
		SS-6-5		5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<7.5	<0.75	<0.75	<0.75	<1.5	<1.5	<1.5	<1.5	<1.5	<7.5	<0.75	<0.75	<0.75	<0.75	<1.5	<0.75	<0.75	<0.75
	SS-7	SS-7-0.5		0.5	8/23/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
		SS-7-2.5		2.5	8/23/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		SS-7-5		5	8/23/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
	SS-8	SS-8-0.5		0.5	8/23/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		SS-108-2.5	X	2.5	8/23/21	µg/kg	<0.80	<0.80	<1.6	<8.0	<0.80	<0.80	<0.80	<1.6	<1.6	<1.6	<1.6	<1.6	<8.0	<0.80	<0.80	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80
		SS-8-2.5		2.5	8/23/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
		SS-8-5		5	8/23/21	µg/kg	<0.87	<0.87	<1.7	<8.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<8.7	<0.87	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87
	SS-9	SS-9-0.5		0.5	8/23/21	µg/kg	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<7.7	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	<0.77
		SS-9-2.5		2.5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<7.5	<0.75	<0.75	<0.75	<1.5	<1.5	<1.5	<1.5	<1.5	<7.5	<0.75	<0.75	<0.75	<0.75	<1.5	<0.75	<0.75	<0.75
		SS-9-5		5	8/23/21	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
	SS-10	SS-10-0.5		0.5	8/23/21	µg/kg	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<7.7	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	<0.77
		SS-10-2.5		2.5	8/23/21	µg/kg	<0.80	<0.80	<1.6	<8.0	<0.80	<0.80	<0.80	<1.6	<1.6	<1.6	<1.6	<1.6	<8.0	<0.80	<0.80	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80
		SS-10-5		5	8/23/21	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
		SS-10-10		10	8/23/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
		SS-110-10	X	10	8/23/21	µg/kg	<1.1	<1.1	<2.2	<11	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1
		SS-10-20		20	8/23/21	µg/kg	<1.2	<1.2	<2.3	<12	<1.2	<1.2	<1.2	<2.3	<2.3	<2.3	<2.3	<2.3	<12	<1.2	<1.2	<1.2	<1.2	<2.3	<1.2	<1.2	<1.2
	SS-11	SS-11-0.5		0.5	8/25/21	µg/kg	<0.66	<0.66	<1.3	<6.6	<0.66	<0.66	<0.66	<1.3	<1.3	<1.3	<1.3	<1.3	<6.6	<0.66	<0.66	<0.66	<0.66	<1.3	<0.66	<0.66	<0.66
		SS-11-2.5		2.5	8/25/21	µg/kg	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<8.2	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82
		SS-111-5	X	5	8/25/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
		SS-11-5		5	8/25/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
		SS-11-10		10	8/25/21	µg/kg	<1.2	<1.2	<2.4	<12	<1.2	<1.2	<1.2	<2.4	<2.4	<2.4	<2.4	<2.4	<12	<1.2	<1.2	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2
	SS-12	SS-12-0.5		0.5	8/24/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
		SS-12-2.5		2.5	8/24/21	µg/kg	<0.82	<0.82	<1.6	<8.2	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<8.2	<0.82	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82
		SS-12-5		5	8/24/21	µg/kg	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
		SS-12-10		10	8/24/21	µg/kg	<1.1	<1.1	<2.2	<11	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<11	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1
		SS-12-20		20	8/24/21	µg/kg	<0.95	<0.95	<1.9	<9.5	<0.95	<0.95	<0.95	<1.9	<1.9	<1.9	<1.9	<1.9	<9.5	<0.95	<0.95	<0.95	<0.95	<1.9	<0.95	<0.95	<0.95

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
EPA RSL Industrial (May 2023)							8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	--	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000	--	23,000,000	11,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							8,800	--	2,700	--	--	16,000	--	--	--	21	35,000	--	57	160	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,700,000	7,200,000	4,300,000	--	--	7,100,000	350,000	--	300,000	21,000	260,000	--	25,000	30,000	--	--	--	--	--	2,200,000	--
25 (Units 3/4 Transformers)	T3-4-2	T3-4-2-0.5		0.5	9/1/21	µg/kg	<0.90	<0.90	<1.8	<9.0	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<9.0	<0.90	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90
	T3-4-4	T3-4-4-0.5		0.5	9/2/21	µg/kg	<2.7	<2.7	<5.4	<27	<2.7	<2.7	<2.7	<5.4	<5.4	<5.4	<5.4	<5.4	<27	<2.7	<2.7	<2.7	<2.7	<5.4	<2.7	<2.7	<2.7
	T3-4-5	T3-4-5-0.5		0.5	9/2/21	µg/kg	<0.77	<0.77	<1.5	<7.7	<0.77	<0.77	<0.77	<1.5	<1.5	<1.5	<1.5	<1.5	<7.7	<0.77	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	<0.77
		T3-4-5-2.5		2.5	9/2/21	µg/kg	<0.88	<0.88	<1.8	<8.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<8.8	<0.88	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88
	T3-4-8	T3-4-8-0.5		0.5	9/2/21	µg/kg	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<9.4	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94
25 (Units 3/4 Transformers)	T3-4-14	T3-4-14-0.5		0.5	9/1/21	µg/kg	<0.80	<0.80	<1.6	<8.0	<0.80	<0.80	<0.80	<1.6	<1.6	<1.6	<1.6	<1.6	<8.0	<0.80	<0.80	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80
	T3-4-15	T3-4-15-0.5		0.5	9/1/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
		T3-4-15-2.5		2.5	9/1/21	µg/kg	<0.80	<0.80	<1.6	<8.0	<0.80	<0.80	<0.80	<1.6	<1.6	<1.6	<1.6	<1.6	<8.0	<0.80	<0.80	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80
26 (Units 1/2 Transformers)	T1-2-13	T1-2-13-0.5		0.5	8/31/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
	T1-2-14	T1-2-14-0.5		0.5	8/31/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
	T1-2-15	T1-2-15-0.5		0.5	8/31/21	µg/kg	<0.83	<0.83	<1.7	<8.3	<0.83	<0.83	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<8.3	<0.83	<0.83	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83
		T1-2-15-2.5		2.5	8/31/21	µg/kg	<0.83	<0.83	<1.7	<8.3	<0.83	<0.83	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<8.3	<0.83	<0.83	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83
	T1-2-16	T1-2-16-0.5		0.5	8/31/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
	T1-2-19	T1-2-19-0.5		0.5	8/30/21	µg/kg	<0.86	<0.86	<1.7	<8.6	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<8.6	<0.86	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86
	T1-2-22	T1-2-22-0.5		0.5	8/30/21	µg/kg	<0.96	<0.96	<1.9	<9.6	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<9.6	<0.96	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96
	T1-2-26	T1-2-26-2.5		2.5	8/30/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
	T1-2-32	T1-2-32-0.5		0.5	8/26/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
36 (Former Haz Waste Area)	F36-1	F36-1-0.5		0.5	8/24/21	µg/kg	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<8.4	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84
		F36-1-2.5		2.5	8/24/21	µg/kg	<0.91	<0.91	<1.8	<9.1	<0.91	<0.91	<0.91	<1.8	<1.8	<1.8	<1.8	<1.8	<9.1	<0.91	<0.91	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91
	F36-2	F36-2-0.5		0.5	8/24/21	µg/kg	<0.85	<0.85	<1.7	<8.5	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<8.5	<0.85	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85
		F36-2-2.5		2.5	8/24/21	µg/kg	<0.85	<0.85	<1.7	<8.5	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<8.5	<0.85	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85
	F36-3	F36-3-0.5		0.5	8/25/21	µg/kg	<0.89	<0.89	<1.8	<8.9	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<8.9	<0.89	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89
		F36-3-2.5		2.5	8/25/21	µg/kg	<0.92	<0.92	<1.8	<9.2	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<9.2	<0.92	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92
Equipment Rinsate Blanks																											
--	--	EB-B-082321		--	8/23/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-A-082421		--	8/24/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-B-082521		--	8/25/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-A-082721		--	8/27/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-B-082721		--	8/27/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-B-083021		--	8/30/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-A-083121		--	8/31/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-B-083121		--	8/31/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-A1-090121		--	9/1/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-B-090121		--	9/1/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-A2-090221		--	9/2/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-A-010322		--	1/3/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-020822		--	2/8/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	EB-021122		--	2/11/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
EPA RSL Industrial (May 2023)							8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	--	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000	--	23,000,000	11,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							8,800	--	2,700	--	--	16,000	--	--	--	21	35,000	--	57	160	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,700,000	7,200,000	4,300,000	--	--	7,100,000	350,000	--	300,000	21,000	260,000	--	25,000	30,000	--	--	--	--	--	2,200,000	--
Trip Blanks																										
--	--	TB-A-082321		--	8/23/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-082321		--	8/23/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-082421		--	8/24/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-082421		--	8/24/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-082521		--	8/25/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.24 J B
--	--	TB-B-082521		--	8/25/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-082621		--	8/26/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-082621		--	8/26/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-082721		--	8/27/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-083021		--	8/30/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-083021		--	8/30/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-083121		--	8/31/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-083121		--	8/31/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-090121		--	9/1/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-090121		--	9/1/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-090221		--	9/2/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-B-090221		--	9/2/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-091021		--	9/10/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-091522		--	9/15/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-101421		--	10/14/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-110521		--	11/5/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-A-010322		--	1/3/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-020822		--	2/8/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	TB-021122		--	2/11/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
Field Blanks																										
--	--	FB-EA182-082321		--	8/23/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-EA182-082421		--	8/24/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-DZ609-082521		--	8/25/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-DZ609-082621		--	8/26/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-DZ609-082721		--	8/27/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-D2609-083021		--	8/30/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-DZ609-083121		--	8/31/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-DZ609-090121		--	9/1/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-EA-182-090221		--	9/2/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-DX348-091021		--	9/10/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-091522		--	9/15/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-EB152-091621		--	9/16/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-EB152-101421		--	10/14/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-EB152-101521		--	10/15/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-EB152-110521		--	11/5/21	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-EB152-010322		--	1/3/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
EPA RSL Industrial (May 2023)							8,800	36,000,000	2,700	28,000,000	5,000	16,000	1,000,000	--	930,000	110	110,000	1,800,000	64	160	9,300,000	2,000	11,000	1,500,000	--	23,000,000	11,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							8,800	--	2,700	--	--	16,000	--	--	--	21	35,000	--	57	160	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,700,000	7,200,000	4,300,000	--	--	7,100,000	350,000	--	300,000	21,000	260,000	--	25,000	30,000	--	--	--	--	--	2,200,000	--
--	--	FB-A-010422		--	1/4/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-A-010522		--	1/5/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-D2838-020822		--	2/8/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
--	--	FB-D2838-021122		--	2/11/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
Potable Water Sample (Drilling Rig Tank Water)																											
--	--	RW-010322		--	1/3/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0

NOTES:

17	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
<0.84	Denotes analyte not detected above the posted Reporting Limit (RL)
J	Concentration is below the RL but above the MDL so the result represents an estimated value
B	Compound was detected in the laboratory method blank and the sample
NA	Not analyzed or No Published Value
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																		
							2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane
EPA RSL Industrial (May 2023)							--	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	1,100,000,000	5,100	1,800,000	1,300	86,000	30,000	3,500,000	2,900	1,300,000	630,000	23,000,000	1,400	460,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	--	--	--	1,400	--	1,300	86,000	--	--	2,900	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	2,500,000	--	2,300,000	--	--	46,000	--	1,300,000	3,000,000	--	--	250,000	--	--	--	--	--
RFI Sample Results																									
5 (Fueling Station)	F5-1	F5-1-2.5		2.5	8/27/21	µg/kg	<4.6	<19	<0.93	<19	<0.93	<19	**14 J**	<0.93	<0.93	<0.93	<4.6	<19	**0.70 J**	<0.93	<0.93	<1.9	<1.9	<0.93	<19
		F5-1-5		5	8/27/21	µg/kg	<5.8	<23	<1.2	<23	<1.2	<23	<23	<1.2	<1.2	<1.2	<5.8	<23	**4.2 J**	<1.2	<1.2	<2.3	<2.3	<1.2	<23
	F5-2	F5-2-2.5		2.5	8/27/21	µg/kg	<4.3	<17	<0.87	<17	<0.87	<17	<17	<0.87	<0.87	<0.87	<4.3	<17	<8.7	<0.87	<0.87	<1.7	<1.7	<0.87	<17
		F5-2-5		5	8/27/21	µg/kg	<7.8	<31	<1.6	<31	<1.6	<31	**29 J**	<1.6	<1.6	<1.6	<7.8	<31	**0.96 J**	<1.6	<1.6	<3.1	<3.1	<1.6	<31
6 (Unit 5 Peaker)	P-1	P-1-2.5		2.5	8/23/21	µg/kg	<4.4	<18	<0.88	<18	<0.88	<18	**11 J**	<0.88	<0.88	<0.88	<4.4	<18	<8.8	<0.88	<0.88	<1.8	<1.8	<0.88	<18
		P-1-5		5	8/23/21	µg/kg	<3.9	<16	<0.79	<16	<0.79	<16	**17**	<0.79	<0.79	<0.79	<3.9	<16	**0.73 J**	<0.79	<0.79	<1.6	<1.6	<0.79	<16
		P-1-10		10	8/23/21	µg/kg	<4.7	**5.5 J**	<0.94	<19	<0.94	<19	**15 J**	**1.2**	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
	P-1B	P-1B-20		20	9/2/21	µg/kg	<4.7	<19	<0.93	<19	<0.93	<19	**16 J**	<0.93	<0.93	<0.93	<4.7	<19	<9.3	<0.93	<0.93	<1.9	<1.9	<0.93	<19
		P-1B-40		40	9/2/21	µg/kg	<4.2	<17	<0.84	<17	<0.84	<17	<17	**1.2**	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
	P-5	P-5-5		5	9/1/21	µg/kg	<5.4	<22	<1.1	<22	<1.1	<22	**16 J**	<1.1	<1.1	<1.1	<5.4	<22	**1.8 J**	<1.1	<1.1	<2.2	<2.2	<1.1	<22
		P-5-20		20	9/1/21	µg/kg	<4.3	<17	<0.85	<17	<0.85	<17	<17	**0.24 J**	<0.85	<0.85	<4.3	<17	<8.5	<0.85	<0.85	<1.7	<1.7	<0.85	<17
	P-6	P-106-5	X	5	9/1/21	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	**16 J**	<0.94	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
		P-6-5		5	9/1/21	µg/kg	<4.6	<18	<0.92	<18	<0.92	<18	**15 J**	<0.92	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
		P-6-20		20	9/1/21	µg/kg	<6.4	<26	<1.3	<26	<1.3	<26	**13 J**	<1.3	<1.3	<1.3	<6.4	<26	<13	<1.3	<1.3	<2.6	<2.6	<1.3	<26
	P-8	P-8-5		5	9/10/21	µg/kg	<4.8	<19	<0.97	<19	<0.97	<19	**19**	<0.97	<0.97	<0.97	<4.8	<19	**1.2 J**	<0.97	<0.97	<1.9	<1.9	<0.97	<19
		P-8-20		20	9/10/21	µg/kg	<4.1	<16	<0.82	<16	<0.82	<16	**8.4 J**	**0.28 J**	<0.82	<0.82	<4.1	<16	<8.2	<0.82	<0.82	<1.6	<1.6	<0.82	<16
	P-9	P-9-5		5	9/10/21	µg/kg	<4.6	<18	<0.92	<18	<0.92	<18	**54**	<0.92	<0.92	<0.92	<4.6	<18	**0.47 J**	<0.92	<0.92	<1.8	<1.8	<0.92	<18
		P-9-20		20	9/10/21	µg/kg	<3.9	<15	<0.77	<15	<0.77	<15	**11 J**	**0.26 J**	<0.77	<0.77	<3.9	<15	<7.7	<0.77	<0.77	<1.5	<1.5	<0.77	<15
	PT1-2	PT1-2-0.5		0.5	8/24/21	µg/kg	<4.5	**6.5 J**	<0.89	<18	<0.89	<18	**34**	<0.89	<0.89	<0.89	<4.5	<18	**4.6 J**	<0.89	<0.89	<1.8	<1.8	<0.89	<18
	PT1-3	PT1-3-0.5		0.5	8/24/21	µg/kg	<4.7	**5.7 J**	<0.93	<19	<0.93	<19	**32**	<0.93	<0.93	<0.93	<4.7	<19	<9.3	<0.93	<0.93	<1.9	<1.9	<0.93	<19
	PT2-1	PT2-1-0.5		0.5	8/23/21	µg/kg	<4.4	<17	<0.87	<17	<0.87	<17	**24**	**0.29 J**	<0.87	<0.87	<4.4	<17	<8.7	<0.87	<0.87	<1.7	<1.7	<0.87	<17
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	8/26/21	µg/kg	<4.3	**11 J**	<0.86	**3.9 J**	<0.86	<17	**78**	**0.71 J**	<0.86	<0.86	<4.3	<17	**0.56 J**	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		F11-101-0.5	X	0.5	8/26/21	µg/kg	<5.1	**13 J**	<1.0	**4.8 J**	<1.0	<21	**110**	**0.88 J**	<1.0	<1.0	<5.1	<21	**0.56 J**	<1.0	<1.0	<2.1	<2.1	<1.0	<21
		F11-1-2.5		2.5	8/26/21	µg/kg	<5.5	<22	<1.1	<22	<1.1	<22	**30**	<1.1	<1.1	<1.1	<5.5	<22	<11	<1.1	<1.1	<2.2	<2.2	<1.1	<22
	F11-10	F11-10-0.5		0.5	8/26/21	µg/kg	<4.1	**23**	<0.83	**5.0 J**	<0.83	**3.2 J**	**140**	**0.74 J**	<0.83	<0.83	<4.1	<17	**0.41 J**	<0.83	<0.83	<1.7	<1.7	<0.83	<17
		F11-110-0.5	X	0.5	8/26/21	µg/kg	<4.6	**51**	<0.91	**11 J**	<0.91	<18	**240**	**0.76 J**	<0.91	<0.91	<4.6	<18	<9.1	<0.91	<0.91	<1.8	<1.8	<0.91	<18
		F11-10-2.5		2.5	8/26/21	µg/kg	<4.6	**4.3 J**	<0.92	<18	<0.92	<18	**26**	<0.92	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
	F11-2A	F11-2A-0.5		0.5	8/26/21	µg/kg	<4.9	**26**	<0.98	**6.0 J**	<0.98	**5.0 J**	**150**	**0.90 J**	<0.98	<0.98	<4.9	<20	**1.0 J**	<0.98	<0.98	<2.0	<2.0	<0.98	<20
		F11-2A-2.5		2.5	8/26/21	µg/kg	<4.5	**37**	<0.89	**5.6 J**	<0.89	<18	**230**	**0.70 J**	<0.89	<0.89	<4.5	<18	<8.9	<0.89	<0.89	<1.8	<1.8	<0.89	<18
	F11-2B	F11-2B-0.5		0.5	8/26/21	µg/kg	<4.6	**6.5 J**	<0.92	<18	<0.92	<18	**43**	**0.78 J**	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
		F11-2B-2.5		2.5	8/26/21	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	**22**	**0.24 J**	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
	F11-3	F11-3-0.5		0.5	8/26/21	µg/kg	<4.8	**15 J**	<0.96	<19	<0.96	<19	**78**	**0.69 J**	<0.96	<0.96	<4.8	<19	<9.6	<0.96	<0.96	<1.9	<1.9	<0.96	<19
		F11-3-2.5		2.5	8/26/21	µg/kg	<5.5	<22	<1.1	<22	<1.1	<22	**41**	<1.1	<1.1	<1.1	<5.5	<22	<11	<1.1	<1.1	<2.2	<2.2	<1.1	<22
	F11-4	F11-4-0.5		0.5	8/31/21	µg/kg	<4.6	<18	<0.92	<18	<0.92	<18	**24**	<0.92	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
		F11-4-2.5		2.5	8/31/21	µg/kg	<4.9	<20	<0.98	<20	<0.98	<20	**32**	**0.50 J**	<0.98	<0.98	<4.9	<20	<9.8	<0.98	<0.98	<2.0	<2.0	<0.98	<20
	F11-5	F11-105-0.5	X	0.5	8/31/21	µg/kg	<5.1	<21	<1.0	<21	<1.0	<21	**40**	**0.43 J**	<1.0	<1.0	<5.1	<21	<10	<1.0	<1.0	<2.1	<2.1	<1.0	<21
		F11-5-0.5		0.5	8/31/21	µg/kg	<4.4	<18	<0.88	<18	<0.88	<18	**40**	**0.56 J**	<0.88	<0.88	<4.4	<18	<8.8	<0.88	<0.88	<1.8	<1.8	<0.88	<18
11 (Chadwick Channel)	F11-5	F11-5-2.5		2.5	8/31/21	µg/kg	<4.9	**7.4 J**	<0.99	<20	<0.99	<20	**47**	**0.89 J**	<0.99	<0.99	<4.9	<20	<9.9	<0.99	<0.99	<2.0	<2.0	<0.99	<20
	F11-6	F11-6-0.5		0.5	8/31/21	µg/kg	<3.8	<15	<0.77	<15	<0.77	<15	**22**	<0.77	<0.77	<0.77	<3.8	<15	<7.7	<0.77	<0.77	<1.5	<1.5	<0.77	<15
		F11-6-2.5		2.5	8/31/21	µg/kg	<4.3	<17	<0.87	<17	<0.87	<17	**19**	<0.87	<0.87	<0.87	<4.3	<17	<8.7	<0.87	<0.87	<1.7	<1.7	<0.87	<17
	F11-7	F11-7-0.5		0.5	8/31/21	µg/kg	<4.8	**9.6 J**	<0.96	<19	<0.96	<19	**44**	**0.30 J**	<0.96	<0.96	<4.8	<19	<9.6	<0.96	<0.96	<1.9	<1.9	<0.96	<19
		F11-7-2.5		2.5	8/31/21	µg/kg	<5.0	<20	<0.99	<20	<0.99	<20	<20	<0.99	<0.99	<0.99	<5.0	<20	<9.9	<0.99	<0.99	<2.0	<2.0	<0.99	<20
	F11-8	F11-8-0.5		0.5	8/31/21	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	**11 J**	**0.28 J**	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
		F11-8-2.5		2.5	8/31/21	µg/kg	<5.2	<21	<1.0	<21	<1.0	<21	<21	<1.0	<1.0	<1.0	<5.2	<21	<10	<1.0	<1.0	<2.1	<2.1	<1.0	<21
	F11-9	F11-9-0.5		0.5	8/26/21	µg/kg	<4.7	**4.8 J**	<0.94	<19	<0.94	<19	**27**	<0.94	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																		
							2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane
EPA RSL Industrial (May 2023)							--	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	1,100,000,000	5,100	1,800,000	1,300	86,000	30,000	3,500,000	2,900	1,300,000	630,000	23,000,000	1,400	460,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	--	--	--	1,400	--	1,300	86,000	--	--	2,900	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	2,500,000	--	2,300,000	--	--	46,000	--	1,300,000	3,000,000	--	--	250,000	--	--	--	--	--
14 (Haz Waste Accumulation Area)	F14-1	F14-1-0.5		0.5	8/25/21	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	**11 J**	**0.39 J**	<0.86	<0.86	<4.3	<17	<8.6	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		F14-1-2.5		2.5	8/25/21	µg/kg	<4.8	**5.1 J**	<0.95	<19	<0.95	<19	**23**	**0.78 J**	<0.95	<0.95	<4.8	<19	<9.5	<0.95	<0.95	<1.9	<1.9	<0.95	<19
17 (Maintenance Shop)	MS-10	MS-10-0.5		0.5	8/25/21	µg/kg	<4.6	**12 J**	<0.93	<19	<0.93	<19	**39**	<0.93	<0.93	<0.93	<4.6	<19	<9.3	<0.93	<0.93	<1.9	<1.9	<0.93	<19
		MS-10-2.5		2.5	8/25/21	µg/kg	<3.9	**3.7 J**	<0.78	<16	<0.78	<16	**10 J**	**0.51 J**	<0.78	<0.78	<3.9	<16	**0.39 J**	<0.78	<0.78	<1.6	<1.6	<0.78	<16
		MS-10-5		5	8/25/21	µg/kg	<5.5	<22	<1.1	<22	<1.1	<22	<22	<1.1	<1.1	<1.1	<5.5	<22	<11	<1.1	<1.1	<2.2	<2.2	<1.1	<22
		MS-10-10		10	8/25/21	µg/kg	<6.1	<24	<1.2	<24	<1.2	<24	<24	<1.2	<1.2	<1.2	<6.1	<24	<12	<1.2	<1.2	<2.4	<2.4	<1.2	<24
		MS-10-20		20	8/25/21	µg/kg	<6.9	<27	<1.4	<27	<1.4	<27	<27	<1.4	<1.4	<1.4	<6.9	<27	<14	<1.4	<1.4	<2.7	<2.7	<1.4	<27
	MS-11	MS-11-0.5		0.5	8/25/21	µg/kg	<4.4	**14 J**	<0.88	<18	<0.88	<18	**66**	<0.88	<0.88	<0.88	<4.4	<18	**1.5 J**	<0.88	<0.88	<1.8	<1.8	<0.88	<18
		MS-11-2.5		2.5	8/25/21	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**19**	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
		MS-11-5		5	8/25/21	µg/kg	<5.0	**6.9 J**	<0.99	<20	<0.99	<20	**15 J**	**0.54 J**	<0.99	<0.99	<5.0	<20	**0.48 J**	<0.99	<0.99	<2.0	<2.0	<0.99	<20
		MS-11-10		10	8/25/21	µg/kg	<4.8	<19	<0.96	<19	<0.96	<19	**14 J**	<0.96	<0.96	<0.96	<4.8	<19	<9.6	<0.96	<0.96	<1.9	<1.9	<0.96	<19
		MS-111-10	X	10	8/25/21	µg/kg	<5.8	<23	<1.2	<23	<1.2	<23	**14 J**	<1.2	<1.2	<1.2	<5.8	<23	<12	<1.2	<1.2	<2.3	<2.3	<1.2	<23
		MS-11-20		20	8/25/21	µg/kg	<5.4	<22	<1.1	<22	<1.1	<22	**14 J**	<1.1	<1.1	<1.1	<5.4	<22	<11	<1.1	<1.1	<2.2	<2.2	<1.1	<22
	MS-12	MS-12-0.5		0.5	8/25/21	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**14 J**	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
		MS-12-2.5		2.5	8/25/21	µg/kg	<5.1	<20	<1.0	<20	<1.0	<20	**11 J**	<1.0	<1.0	<1.0	<5.1	<20	**1.3 J**	<1.0	<1.0	<2.0	<2.0	<1.0	<20
		MS-12-5		5	8/25/21	µg/kg	<7.5	<30	<1.5	<30	<1.5	<30	<30	<1.5	<1.5	<1.5	<7.5	<30	<15	<1.5	<1.5	<3.0	<3.0	<1.5	<30
		MS-12-10		10	8/25/21	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**10 J**	**0.35 J**	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
		MS-12-20		20	8/25/21	µg/kg	<4.9	<20	<0.98	<20	<0.98	<20	**14 J**	<0.98	<0.98	<0.98	<4.9	<20	<9.8	<0.98	<0.98	<2.0	<2.0	<0.98	<20
	MS-13	MS-13-0.5		0.5	8/26/21	µg/kg	<4.5	<18	<0.89	<18	<0.89	<18	**17 J**	<0.89	<0.89	<0.89	<4.5	<18	<8.9	<0.89	<0.89	<1.8	<1.8	<0.89	<18
		MS-113-2.5	X	2.5	8/26/21	µg/kg	<4.4	<18	<0.89	<18	<0.89	<18	<18	<0.89	<0.89	<0.89	<4.4	<18	<8.9	<0.89	<0.89	<1.8	<1.8	<0.89	<18
		MS-13-2.5		2.5	8/26/21	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**11 J**	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
		MS-13-5		5	8/26/21	µg/kg	<4.6	<19	<0.93	<19	<0.93	<19	<19	<0.93	<0.93	<0.93	<4.6	<19	<9.3	<0.93	<0.93	<1.9	<1.9	<0.93	<19
		MS-13-10		10	8/26/21	µg/kg	<4.1	<16	<0.82	<16	<0.82	<16	<16	**0.44 J**	<0.82	<0.82	<4.1	<16	<8.2	<0.82	<0.82	<1.6	<1.6	<0.82	<16
		MS-13-20		20	8/26/21	µg/kg	<6.1	<24	<1.2	<24	<1.2	<24	<24	<1.2	<1.2	<1.2	<6.1	<24	<12	<1.2	<1.2	<2.4	<2.4	<1.2	<24
	MS-13B	MS-13B-35		35	9/2/21	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	**15 J**	<0.94	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
		MS-13B-50		50	9/2/21	µg/kg	<5.2	<21	<1.0	<21	<1.0	<21	**23**	<1.0	<1.0	<1.0	<5.2	<21	<10	<1.0	<1.0	<2.1	<2.1	<1.0	<21
	MS-14	MS-14-0.5		0.5	8/25/21	µg/kg	<4.5	<18	<0.91	<18	<0.91	<18	<18	<0.91	<0.91	<0.91	<4.5	<18	<9.1	<0.91	<0.91	<1.8	<1.8	<0.91	<18
		MS-14-2.5		2.5	8/25/21	µg/kg	<4.8	<19	<0.97	<19	<0.97	<19	<19	<0.97	<0.97	<0.97	<4.8	<19	<9.7	<0.97	<0.97	<1.9	<1.9	<0.97	<19
		MS-14-5		5	8/25/21	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	<19	<0.94	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
	MS-15	MS-15-0.5		0.5	8/26/21	µg/kg	<4.4	<18	<0.88	<18	<0.88	<18	**12 J**	<0.88	<0.88	<0.88	<4.4	<18	<8.8	<0.88	<0.88	<1.8	<1.8	<0.88	<18
		MS-15-2.5		2.5	8/26/21	µg/kg	<4.8	<19	<0.96	<19	<0.96	<19	**15 J**	<0.96	<0.96	<0.96	<4.8	<19	<9.6	<0.96	<0.96	<1.9	<1.9	<0.96	<19
		MS-15-5		5	8/26/21	µg/kg	<5.1	<20	<1.0	<20	<1.0	<20	**12 J**	<1.0	<1.0	<1.0	<5.1	<20	<10	<1.0	<1.0	<2.0	<2.0	<1.0	<20
		MS-15-10		10	8/26/21	µg/kg	<6.6	<26	<1.3	<26	<1.3	<26	<26	**1.9**	<1.3	<1.3	<6.6	<26	<13	<1.3	<1.3	<2.6	<2.6	<1.3	<26
		MS-15-20		20	8/26/21	µg/kg	<4.8	<19	<0.97	<19	<0.97	<19	<19	**0.30 J**	<0.97	<0.97	<4.8	<19	<9.7	<0.97	<0.97	<1.9	<1.9	<0.97	<19
	MS-16	MS-116-0.5	X	0.5	8/24/21	µg/kg	<4.0	<16	<0.81	<16	<0.81	<16	<16	<0.81	<0.81	<0.81	<4.0	<16	**0.45 J**	<0.81	<0.81	<1.6	<1.6	<0.81	<16
		MS-16-0.5		0.5	8/24/21	µg/kg	<4.0	**5.3 J**	<0.79	<16	<0.79	<16	**33**	<0.79	<0.79	<0.79	<4.0	<16	<7.9	<0.79	<0.79	<1.6	<1.6	<0.79	<16
		MS-16-2.5		2.5	8/24/21	µg/kg	<4.3	<17	<0.87	<17	<0.87	<17	**25**	<0.87	<0.87	<0.87	<4.3	<17	<8.7	<0.87	<0.87	<1.7	<1.7	<0.87	<17
		MS-16-5		5	8/24/21	µg/kg	<4.4	<18	<0.89	<18	<0.89	<18	**8.9 J**	<0.89	<0.89	<0.89	<4.4	<18	<8.9	<0.89	<0.89	<1.8	<1.8	<0.89	<18
		MS-16-10		10	8/24/21	µg/kg	<5.8	<23	<1.2	<23	<1.2	<23	**16 J**	**0.64 J**	<1.2	<1.2	<5.8	<23	<12	<1.2	<1.2	<2.3	<2.3	<1.2	<23
		MS-16-20		20	8/24/21	µg/kg	<5.6	<23	<1.1	<23	<1.1	<23	**15 J**	<1.1	<1.1	<1.1	<5.6	<23	<11	<1.1	<1.1	<2.3	<2.3	<1.1	<23

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane
EPA RSL Industrial (May 2023)							--	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	1,100,000,000	5,100	1,800,000	1,300	86,000	30,000	3,500,000	2,900	1,300,000	630,000	23,000,000	1,400	460,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	--	--	--	1,400	--	1,300	86,000	--	--	2,900	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	2,500,000	--	2,300,000	--	--	46,000	--	1,300,000	3,000,000	--	--	250,000	--	--	--	--	--
17 (Maintenance Shop)	MS-17	MS-17-0.5		0.5	8/24/21	µg/kg	<4.1	**15 J**	<0.82	<16	<0.82	<16	**110**	**0.23 J**	<0.82	<0.82	<4.1	<16	<8.2	<0.82	<0.82	<1.6	<1.6	<0.82	<16
		MS-17-2.5		2.5	8/24/21	µg/kg	<6.4	<26	<1.3	<26	<1.3	<26	**24 J**	<1.3	<1.3	<1.3	<6.4	<26	<13	<1.3	<1.3	<2.6	<2.6	<1.3	<26
		MS-17-5		5	8/24/21	µg/kg	<6.7	<27	<1.3	<27	<1.3	<27	<27	<1.3	<1.3	<1.3	<6.7	<27	<13	<1.3	<1.3	<2.7	<2.7	<1.3	<27
		MS-117-10	X	10	8/24/21	µg/kg	<3.9	<16	<0.78	<16	<0.78	<16	<16	**1.1**	<0.78	<0.78	<3.9	<16	<7.8	<0.78	<0.78	<1.6	<1.6	<0.78	<16
		MS-17-10		10	8/24/21	µg/kg	<4.2	<17	<0.83	<17	<0.83	<17	<17	<0.83	<0.83	<0.83	<4.2	<17	<8.3	<0.83	<0.83	<1.7	<1.7	<0.83	<17
		MS-17-20		20	8/24/21	µg/kg	<4.4	<17	<0.87	<17	<0.87	<17	**12 J**	<0.87	<0.87	<0.87	<4.4	<17	<8.7	<0.87	<0.87	<1.7	<1.7	<0.87	<17
	MS-17B	MS-17B-40		40	9/2/21	µg/kg	<5.1	<20	<1.0	<20	<1.0	<20	**16 J**	**0.58 J**	<1.0	<1.0	<5.1	<20	<10	<1.0	<1.0	<2.0	<2.0	<1.0	<20
		MS-17B-60		60	9/2/21	µg/kg	<4.8	<19	<0.97	<19	<0.97	<19	**20**	**0.37 J**	<0.97	<0.97	<4.8	<19	<9.7	<0.97	<0.97	<1.9	<1.9	<0.97	<19
	MS-18	MS-18-0.5		0.5	8/24/21	µg/kg	<4.2	<17	<0.85	<17	<0.85	<17	**34**	**0.28 J**	<0.85	<0.85	<4.2	<17	<8.5	<0.85	<0.85	<1.7	<1.7	<0.85	<17
		MS-18-2.5		2.5	8/24/21	µg/kg	<4.6	<18	<0.92	<18	<0.92	<18	**16 J**	<0.92	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
		MS-18-5		5	8/24/21	µg/kg	<4.9	<20	<0.98	<20	<0.98	<20	**21**	<0.98	<0.98	<0.98	<4.9	<20	<9.8	<0.98	<0.98	<2.0	<2.0	<0.98	<20
	MS-19	MS-19-5		5	9/1/21	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	**14 J**	<0.94	<0.94	<0.94	<4.7	<19	**0.93 J**	<0.94	<0.94	<1.9	<1.9	<0.94	<19
		MS-19-20		20	9/1/21	µg/kg	<4.2	<17	<0.84	<17	<0.84	<17	<17	<0.84	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
	MS-20	MS-20-5		5	9/1/21	µg/kg	<4.2	<17	<0.84	<17	<0.84	<17	**15 J**	<0.84	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
		MS-20-20		20	9/1/21	µg/kg	<3.5	<14	<0.69	<14	<0.69	<14	**7.3 J**	<0.69	<0.69	<0.69	<3.5	<14	<6.9	<0.69	<0.69	<1.4	<1.4	<0.69	<14
	MS-21	MS-21-5		5	9/10/21	µg/kg	<4.6	<18	<0.91	<18	<0.91	<18	**9.2 J**	<0.91	<0.91	<0.91	<4.6	<18	<9.1	<0.91	<0.91	<1.8	<1.8	<0.91	<18
		MS-21-20		20	9/10/21	µg/kg	<3.6	<14	<0.71	<14	<0.71	<14	<14	<0.71	<0.71	<0.71	<3.6	<14	<7.1	<0.71	<0.71	<1.4	<1.4	<0.71	<14
	MS-22	MS-22-5		5	10/14/21	µg/kg	<5.2	<21	<1.0	<21	<1.0	<21	**17 J**	<1.0	<1.0	<1.0	<5.2	<21	<10	<1.0	<1.0	<2.1	<2.1	<1.0	<21
		MS-22-20		20	10/14/21	µg/kg	<4.4	<18	<0.88	<18	<0.88	<18	<18	<0.88	<0.88	<0.88	<4.4	<18	<8.8	<0.88	<0.88	<1.8	<1.8	<0.88	<18
	MS-23	MS-123-5	X	5	10/14/22	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	<17	**0.24 J**	<0.86	<0.86	<4.3	<17	<8.6	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		MS-23-5		5	10/14/22	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	<18	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
		MS-23-20		20	10/14/22	µg/kg	<4.7	<19	<0.93	<19	<0.93	<19	<19	<0.93	<0.93	<0.93	<4.7	<19	<9.3	<0.93	<0.93	<1.9	<1.9	<0.93	<19
	MS-23B	MS-23B-40		40	11/5/22	µg/kg	<4.5	**5.6 J**	<0.91	<18	<0.91	<18	**20**	**1.2**	<0.91	<0.91	<4.5	<18	<9.1	<0.91	<0.91	<1.8	<1.8	<0.91	<18
		MS-23B-60		60	11/5/22	µg/kg	<4.2	<17	<0.85	<17	<0.85	<17	**16 J**	**0.58 J**	<0.85	<0.85	<4.2	<17	<8.5	<0.85	<0.85	<1.7	<1.7	<0.85	<17
		MS-23B-80		80	11/5/22	µg/kg	<4.0	<16	<0.79	<16	<0.79	<16	**14 J**	<0.79	<0.79	<0.79	<4.0	<16	<7.9	<0.79	<0.79	<1.6	<1.6	<0.79	<16
		MS-23B-100		100	11/5/22	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	**19**	<0.94	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
	MS-23C	MS-23C-125		125	1/3/22	µg/kg	<4.8	<19	<0.96	<19	<0.96	<19	<19	<0.96	<0.96	<0.96	<4.8	<19	<9.6	<0.96	<0.96	<1.9	<1.9	<0.96	<19
		MS-23C-150		150	1/4/22	µg/kg	<4.2	<17	<0.83	<17	<0.83	<17	<17	<0.83	<0.83	<0.83	<4.2	<17	<8.3	<0.83	<0.83	<1.7	<1.7	<0.83	<17
		MS-23C-190		190	1/5/22	µg/kg	<6.1	<24	<1.2	<24	<1.2	<24	<24	<1.2	<1.2	<1.2	<6.1	<24	<12	<1.2	<1.2	<2.4	<2.4	<1.2	<24
		MS-23C-200		200	1/5/22	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	<18	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
	MS-24	MS-24-20		20	10/14/22	µg/kg	<5.3	<21	<1.1	<21	<1.1	<21	**11 J**	<1.1	<1.1	<1.1	<5.3	<21	**0.68 J**	<1.1	<1.1	<2.1	<2.1	<1.1	<21
	MS-25	MS-25-20		20	10/14/22	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**12 J**	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
	MS-26	MS-26-20		20	10/15/22	µg/kg	<4.8	<19	<0.95	<19	<0.95	<19	**10 J**	<0.95	<0.95	<0.95	<4.8	<19	<9.5	<0.95	<0.95	<1.9	<1.9	<0.95	<19
	MS-27	MS-27-5		5	10/15/22	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	**20**	**0.33 J**	<0.86	<0.86	<4.3	<17	**0.47 J**	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		MS-127-20	X	20	10/15/22	µg/kg	<4.6	<18	<0.92	<18	<0.92	<18	**15 J**	<0.92	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
		MS-27-20		20	10/15/22	µg/kg	<4.9	<20	<0.98	<20	<0.98	<20	<20	<0.98	<0.98	<0.98	<4.9	<20	<9.8	<0.98	<0.98	<2.0	<2.0	<0.98	<20
	MS-28	MS-28-5		5	11/5/22	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**20**	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
	MS-29	MS-29-20		20	2/8/22	µg/kg	<4.2	<17	<0.84	<17	<0.84	<17	**13 J**	<0.84	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
	MS-30	MS-30-20		20	2/8/22	µg/kg	<4.0	<16	<0.80	<16	<0.80	<16	<16	<0.80	<0.80	<0.80	<4.0	<16	<8.0	<0.80	<0.80	<1.6	<1.6	<0.80	<16
	MS-31	MS-31-20		20	2/8/22	µg/kg	<4.1	<17	<0.83	<17	<0.83	<17	<17	<0.83	<0.83	<0.83	<4.1	<17	<8.3	<0.83	<0.83	<1.7	<1.7	<0.83	<17
	MS-32	MS-32-5		5	2/11/22	µg/kg	<4.1	<16	<0.82	<16	<0.82	<16	**9.3 J**	<0.82	<0.82	<0.82	<4.1	<16	<8.2	<0.82	<0.82	<1.6	<1.6	<0.82	<16
		MS-32-20		20	2/11/22	µg/kg	<4.4	<18	<0.88	<18	<0.88	<18	**10 J**	<0.88	<0.88	<0.88	<4.4	<18	<8.8	<0.88	<0.88	<1.8	<1.8	<0.88	<18

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																		
							2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane
EPA RSL Industrial (May 2023)							--	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	1,100,000,000	5,100	1,800,000	1,300	86,000	30,000	3,500,000	2,900	1,300,000	630,000	23,000,000	1,400	460,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	--	--	--	1,400	--	1,300	86,000	--	--	2,900	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	2,500,000	--	2,300,000	--	--	46,000	--	1,300,000	3,000,000	--	--	250,000	--	--	--	--	--
17 (Maintenance Shop)	SS-1B	SS-1B-0.5		0.5	8/24/21	µg/kg	<4.3	<17	<0.87	<17	<0.87	<17	**26**	<0.87	<0.87	<0.87	<4.3	<17	<8.7	<0.87	<0.87	<1.7	<1.7	<0.87	<17
		SS-1B-2.5		2.5	8/24/21	µg/kg	<3.9	<15	<0.77	<15	<0.77	<15	**8.6 J**	<0.77	<0.77	<0.77	<3.9	<15	**0.40 J**	<0.77	<0.77	<1.5	<1.5	<0.77	<15
		SS-1B-5		5	8/24/21	µg/kg	<4.4	<18	<0.88	<18	<0.88	<18	<18	<0.88	<0.88	<0.88	<4.4	<18	**0.36 J**	<0.88	<0.88	<1.8	<1.8	<0.88	<18
		SS-1B-10		10	8/24/21	µg/kg	<5.1	<20	<1.0	<20	<1.0	<20	**21**	<1.0	<1.0	<1.0	<5.1	<20	<10	<1.0	<1.0	<2.0	<2.0	<1.0	<20
		SS-1B-20		20	8/24/21	µg/kg	<4.8	<19	<0.97	<19	<0.97	<19	<19	<0.97	<0.97	<0.97	<4.8	<19	<9.7	<0.97	<0.97	<1.9	<1.9	<0.97	<19
	SS-4	SS-4-0.5		0.5	8/24/21	µg/kg	<3.6	<15	<0.73	<15	<0.73	<15	**27**	<0.73	<0.73	<0.73	<3.6	<15	<7.3	<0.73	<0.73	<1.5	<1.5	<0.73	<15
		SS-4-2.5		2.5	8/24/21	µg/kg	<4.7	<19	<0.95	<19	<0.95	<19	**24**	**0.46 J**	<0.95	<0.95	<4.7	<19	<9.5	<0.95	<0.95	<1.9	<1.9	<0.95	<19
		SS-4-5		5	8/24/21	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	<17	<0.86	<0.86	<0.86	<4.3	<17	**0.50 J**	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		SS-4-10		10	8/24/21	µg/kg	<4.8	<19	<0.97	<19	<0.97	<19	<19	**0.92 J**	<0.97	<0.97	<4.8	<19	<9.7	<0.97	<0.97	<1.9	<1.9	<0.97	<19
		SS-4-20		20	8/24/21	µg/kg	<6.0	**9.1 J**	<1.2	<24	<1.2	<24	<24	**1.6**	<1.2	<1.2	<6.0	<24	<12	<1.2	<1.2	<2.4	<2.4	<1.2	<24
	SS-5	SS-105-0.5	X	0.5	8/24/21	µg/kg	<4.1	**3.7 J**	<0.82	<16	<0.82	<16	**21**	<0.82	<0.82	<0.82	<4.1	<16	<8.2	<0.82	<0.82	<1.6	<1.6	<0.82	<16
		SS-5-0.5		0.5	8/24/21	µg/kg	<4.7	**10 J**	<0.93	<19	<0.93	<19	**55**	<0.93	<0.93	<0.93	<4.7	<19	<9.3	<0.93	<0.93	<1.9	<1.9	<0.93	<19
		SS-5-2.5		2.5	8/24/21	µg/kg	<4.0	<16	<0.80	<16	<0.80	<16	**22**	<0.80	<0.80	<0.80	<4.0	<16	<8.0	<0.80	<0.80	<1.6	<1.6	<0.80	<16
		SS-5-5		5	8/24/21	µg/kg	<3.9	<15	<0.77	<15	<0.77	<15	**12 J**	<0.77	<0.77	<0.77	<3.9	<15	<7.7	<0.77	<0.77	<1.5	<1.5	<0.77	<15
	SS-6	SS-6-0.5		0.5	8/23/21	µg/kg	<3.8	<15	<0.75	<15	<0.75	<15	**30**	**0.25 J**	<0.75	<0.75	<3.8	<15	<7.5	<0.75	<0.75	<1.5	<1.5	<0.75	<15
		SS-6-2.5		2.5	8/23/21	µg/kg	<3.8	<15	<0.75	<15	<0.75	<15	**28**	<0.75	<0.75	<0.75	<3.8	<15	<7.5	<0.75	<0.75	<1.5	<1.5	<0.75	<15
		SS-6-5		5	8/23/21	µg/kg	<3.7	<15	<0.75	<15	<0.75	<15	<15	<0.75	<0.75	<0.75	<3.7	<15	**0.41 J**	<0.75	<0.75	<1.5	<1.5	<0.75	<15
	SS-7	SS-7-0.5		0.5	8/23/21	µg/kg	<4.2	<17	<0.84	<17	<0.84	<17	**23**	<0.84	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
		SS-7-2.5		2.5	8/23/21	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	**24**	<0.86	<0.86	<0.86	<4.3	<17	<8.6	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		SS-7-5		5	8/23/21	µg/kg	<4.5	<18	<0.89	<18	<0.89	<18	**8.8 J**	<0.89	<0.89	<0.89	<4.5	<18	**0.91 J**	<0.89	<0.89	<1.8	<1.8	<0.89	<18
	SS-8	SS-8-0.5		0.5	8/23/21	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	**16 J**	**0.76 J**	<0.86	<0.86	<4.3	<17	<8.6	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		SS-108-2.5	X	2.5	8/23/21	µg/kg	<4.0	<16	<0.80	<16	<0.80	<16	**24**	<0.80	<0.80	<0.80	<4.0	<16	<8.0	<0.80	<0.80	<1.6	<1.6	<0.80	<16
		SS-8-2.5		2.5	8/23/21	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	**21**	**0.23 J**	<0.86	<0.86	<4.3	<17	<8.6	<0.86	<0.86	<1.7	<1.7	<0.86	<17
		SS-8-5		5	8/23/21	µg/kg	<4.3	<17	<0.87	<17	<0.87	<17	**20**	**0.28 J**	<0.87	<0.87	<4.3	<17	<8.7	<0.87	<0.87	<1.7	<1.7	<0.87	<17
	SS-9	SS-9-0.5		0.5	8/23/21	µg/kg	<3.9	**3.6 J**	<0.77	<15	<0.77	<15	**13 J**	**0.62 J**	<0.77	<0.77	<3.9	<15	<7.7	<0.77	<0.77	<1.5	<1.5	<0.77	<15
		SS-9-2.5		2.5	8/23/21	µg/kg	<3.7	<15	<0.75	<15	<0.75	<15	**18**	<0.75	<0.75	<0.75	<3.7	<15	<7.5	<0.75	<0.75	<1.5	<1.5	<0.75	<15
		SS-9-5		5	8/23/21	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**11 J**	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
	SS-10	SS-10-0.5		0.5	8/23/21	µg/kg	<3.9	**6.2 J**	<0.77	<15	<0.77	<15	**28**	<0.77	<0.77	<0.77	<3.9	<15	<7.7	<0.77	<0.77	<1.5	<1.5	<0.77	<15
		SS-10-2.5		2.5	8/23/21	µg/kg	<4.0	<16	<0.80	<16	<0.80	<16	**27**	<0.80	<0.80	<0.80	<4.0	<16	<8.0	<0.80	<0.80	<1.6	<1.6	<0.80	<16
		SS-10-5		5	8/23/21	µg/kg	<4.5	<18	<0.90	<18	<0.90	<18	**29**	<0.90	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
		SS-10-10		10	8/23/21	µg/kg	<4.4	<18	<0.89	<18	<0.89	<18	<18	<0.89	<0.89	<0.89	<4.4	<18	<8.9	<0.89	<0.89	<1.8	<1.8	<0.89	<18
		SS-110-10	X	10	8/23/21	µg/kg	<5.5	<22	<1.1	<22	<1.1	<22	**27**	<1.1	<1.1	<1.1	<5.5	<22	<11	<1.1	<1.1	<2.2	<2.2	<1.1	<22
		SS-10-20		20	8/23/21	µg/kg	<5.9	<23	<1.2	<23	<1.2	<23	<23	**0.55 J**	<1.2	<1.2	<5.9	<23	<12	<1.2	<1.2	<2.3	<2.3	<1.2	<23
	SS-11	SS-11-0.5		0.5	8/25/21	µg/kg	<3.3	**8.1 J**	<0.66	<13	<0.66	<13	**35**	<0.66	<0.66	<0.66	<3.3	<13	<6.6	<0.66	<0.66	<1.3	<1.3	<0.66	<13
		SS-11-2.5		2.5	8/25/21	µg/kg	<4.1	<16	<0.82	<16	<0.82	<16	**14 J**	<0.82	<0.82	<0.82	<4.1	<16	<8.2	<0.82	<0.82	<1.6	<1.6	<0.82	<16
		SS-111-5	X	5	8/25/21	µg/kg	<4.7	<19	<0.94	<19	<0.94	<19	<19	<0.94	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
		SS-11-5		5	8/25/21	µg/kg	<4.4	<18	<0.88	<18	<0.88	<18	<18	<0.88	<0.88	<0.88	<4.4	<18	**0.49 J**	<0.88	<0.88	<1.8	<1.8	<0.88	<18
		SS-11-10		10	8/25/21	µg/kg	<6.1	<24	<1.2	<24	<1.2	<24	**25**	**0.93 J**	<1.2	<1.2	<6.1	<24	<12	<1.2	<1.2	<2.4	<2.4	<1.2	<24
	SS-12	SS-12-0.5		0.5	8/24/21	µg/kg	<4.2	**10 J**	<0.84	<17	<0.84	**2.9 J**	**78**	**0.24 J**	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
		SS-12-2.5		2.5	8/24/21	µg/kg	<4.1	<16	<0.82	<16	<0.82	<16	**18**	<0.82	<0.82	<0.82	<4.1	<16	<8.2	<0.82	<0.82	<1.6	<1.6	<0.82	<16
		SS-12-5		5	8/24/21	µg/kg	<5.0	<20	<1.0	<20	<1.0	<20	<20	<1.0	<1.0	<1.0	<5.0	<20	<10	<1.0	<1.0	<2.0	<2.0	<1.0	<20
		SS-12-10		10	8/24/21	µg/kg	<5.5	<22	<1.1	<22	<1.1	<22	**24**	**0.60 J**	<1.1	<1.1	<5.5	<22	<11	<1.1	<1.1	<2.2	<2.2	<1.1	<22
		SS-12-20		20	8/24/21	µg/kg	<4.7	<19	<0.95	<19	<0.95	<19	<19	**0.58 J**	<0.95	<0.95	<4.7	<19	<9.5	<0.95	<0.95	<1.9	<1.9	<0.95	<19

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																		
							2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane
EPA RSL Industrial (May 2023)							--	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	1,100,000,000	5,100	1,800,000	1,300	86,000	30,000	3,500,000	2,900	1,300,000	630,000	23,000,000	1,400	460,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	--	--	--	1,400	--	1,300	86,000	--	--	2,900	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	2,500,000	--	2,300,000	--	--	46,000	--	1,300,000	3,000,000	--	--	250,000	--	--	--	--	--
25 (Units 3/4 Transformers)	T3-4-2	T3-4-2-0.5		0.5	9/1/21	µg/kg	<4.5	**13 J**	<0.90	<18	<0.90	<18	**77**	**0.39 J**	<0.90	<0.90	<4.5	<18	<9.0	<0.90	<0.90	<1.8	<1.8	<0.90	<18
	T3-4-4	T3-4-4-0.5		0.5	9/2/21	µg/kg	<13	**46 J**	<2.7	<54	<2.7	<54	**250**	<2.7	<2.7	<2.7	<13	<54	**7.5 J**	<2.7	<2.7	<5.4	<5.4	<2.7	<54
	T3-4-5	T3-4-5-0.5		0.5	9/2/21	µg/kg	<3.9	**8.5 J**	<0.77	<15	<0.77	<15	**39**	<0.77	<0.77	<0.77	<3.9	<15	<7.7	<0.77	<0.77	<1.5	<1.5	<0.77	<15
		T3-4-5-2.5		2.5	9/2/21	µg/kg	<4.4	**13 J**	<0.88	<18	<0.88	<18	**60**	**0.30 J**	<0.88	<0.88	<4.4	<18	<8.8	<0.88	<0.88	<1.8	<1.8	<0.88	<18
	T3-4-8	T3-4-8-0.5		0.5	9/2/21	µg/kg	<4.7	**26**	<0.94	<19	<0.94	<19	**120**	**0.32 J**	<0.94	<0.94	<4.7	<19	<9.4	<0.94	<0.94	<1.9	<1.9	<0.94	<19
25 (Units 3/4 Transformers)	T3-4-14	T3-4-14-0.5		0.5	9/1/21	µg/kg	<4.0	<16	<0.80	<16	<0.80	<16	**19**	**0.27 J**	<0.80	<0.80	<4.0	<16	**1.2 J**	<0.80	<0.80	<1.6	<1.6	<0.80	<16
	T3-4-15	T3-4-15-0.5		0.5	9/1/21	µg/kg	<4.2	**4.1 J**	<0.84	<17	<0.84	<17	**26**	**0.26 J**	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
		T3-4-15-2.5		2.5	9/1/21	µg/kg	<4.0	**16**	<0.80	<16	<0.80	<16	**77**	**0.32 J**	<0.80	<0.80	<4.0	<16	<8.0	<0.80	<0.80	<1.6	<1.6	<0.80	<16
26 (Units 1/2 Transformers)	T1-2-13	T1-2-13-0.5		0.5	8/31/21	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	**21**	**0.28 J**	<0.86	<0.86	<4.3	<17	<8.6	<0.86	<0.86	<1.7	<1.7	<0.86	<17
	T1-2-14	T1-2-14-0.5		0.5	8/31/21	µg/kg	<4.6	**13 J**	<0.92	<18	<0.92	<18	**82**	**0.54 J**	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
	T1-2-15	T1-2-15-0.5		0.5	8/31/21	µg/kg	<4.2	**9.0 J**	<0.83	<17	<0.83	<17	**58**	**0.43 J**	<0.83	<0.83	<4.2	<17	<8.3	<0.83	<0.83	<1.7	<1.7	<0.83	<17
		T1-2-15-2.5		2.5	8/31/21	µg/kg	<4.2	**17**	<0.83	<17	<0.83	<17	**87**	**0.41 J**	<0.83	<0.83	<4.2	<17	<8.3	<0.83	<0.83	<1.7	<1.7	<0.83	<17
	T1-2-16	T1-2-16-0.5		0.5	8/31/21	µg/kg	<4.2	**6.5 J**	<0.84	<17	<0.84	<17	**38**	**0.40 J**	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
	T1-2-19	T1-2-19-0.5		0.5	8/30/21	µg/kg	<4.3	<17	<0.86	<17	<0.86	<17	**24**	**0.34 J**	<0.86	<0.86	<4.3	<17	<8.6	<0.86	<0.86	<1.7	<1.7	<0.86	<17
	T1-2-22	T1-2-22-0.5		0.5	8/30/21	µg/kg	<4.8	**5.0 J**	<0.96	<19	<0.96	<19	**24**	**0.33 J**	<0.96	<0.96	<4.8	<19	**1.1 J**	<0.96	<0.96	<1.9	<1.9	<0.96	<19
	T1-2-26	T1-2-26-2.5		2.5	8/30/21	µg/kg	<4.4	**4.2 J**	<0.89	<18	<0.89	<18	**19**	**0.38 J**	<0.89	<0.89	<4.4	<18	**8.2 J**	<0.89	<0.89	<1.8	<1.8	<0.89	<18
	T1-2-32	T1-2-32-0.5		0.5	8/26/21	µg/kg	<4.2	**16 J**	<0.84	<17	<0.84	<17	**85**	**0.43 J**	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
36 (Former Haz Waste Area)	F36-1	F36-1-0.5		0.5	8/24/21	µg/kg	<4.2	<17	<0.84	<17	<0.84	<17	**18**	**0.60 J**	<0.84	<0.84	<4.2	<17	<8.4	<0.84	<0.84	<1.7	<1.7	<0.84	<17
		F36-1-2.5		2.5	8/24/21	µg/kg	<4.6	**4.1 J**	<0.91	<18	<0.91	<18	**28**	**0.63 J**	<0.91	<0.91	<4.6	<18	<9.1	<0.91	<0.91	<1.8	<1.8	<0.91	<18
	F36-2	F36-2-0.5		0.5	8/24/21	µg/kg	<4.2	<17	<0.85	<17	<0.85	<17	**25**	**0.57 J**	<0.85	<0.85	<4.2	<17	<8.5	<0.85	<0.85	<1.7	<1.7	<0.85	<17
		F36-2-2.5		2.5	8/24/21	µg/kg	<4.3	<17	<0.85	<17	<0.85	<17	**17**	**0.23 J**	<0.85	<0.85	<4.3	<17	<8.5	<0.85	<0.85	<1.7	<1.7	<0.85	<17
	F36-3	F36-3-0.5		0.5	8/25/21	µg/kg	<4.5	<18	<0.89	<18	<0.89	<18	**16 J**	**0.34 J**	<0.89	<0.89	<4.5	<18	<8.9	<0.89	<0.89	<1.8	<1.8	<0.89	<18
		F36-3-2.5		2.5	8/25/21	µg/kg	<4.6	<18	<0.92	<18	<0.92	<18	**22**	<0.92	<0.92	<0.92	<4.6	<18	<9.2	<0.92	<0.92	<1.8	<1.8	<0.92	<18
Equipment Rinsate Blanks																									
--	--	EB-B-082321		--	8/23/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.3**	<10
--	--	EB-A-082421		--	8/24/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**34**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**3.4**	<10
--	--	EB-B-082521		--	8/25/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.6**	<10
--	--	EB-A-082721		--	8/27/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**3.7**	<10
--	--	EB-B-082721		--	8/27/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	**0.44 J**	<0.50	<1.0	<2.0	<5.0	**2.7**	<10
--	--	EB-B-083021		--	8/30/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**0.95 J**	<10
--	--	EB-A-083121		--	8/31/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**3.0**	<10
--	--	EB-B-083121		--	8/31/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.8**	<10
--	--	EB-A1-090121		--	9/1/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.1**	<10
--	--	EB-B-090121		--	9/1/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.8**	<10
--	--	EB-A2-090221		--	9/2/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.9**	<10
--	--	EB-A-010322		--	1/3/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**13 J**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.5**	<10
--	--	EB-020822		--	2/8/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.9**	<10
--	--	EB-021122		--	2/11/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.5**	<10

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																		
							2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane
EPA RSL Industrial (May 2023)							--	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	1,100,000,000	5,100	1,800,000	1,300	86,000	30,000	3,500,000	2,900	1,300,000	630,000	23,000,000	1,400	460,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	--	--	--	1,400	--	1,300	86,000	--	--	2,900	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	2,500,000	--	2,300,000	--	--	46,000	--	1,300,000	3,000,000	--	--	250,000	--	--	--	--	--
Trip Blanks																									
--	--	TB-A-082321		--	8/23/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-082321		--	8/23/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-082421		--	8/24/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-082421		--	8/24/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-082521		--	8/25/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-082521		--	8/25/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-082621		--	8/26/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-082621		--	8/26/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-082721		--	8/27/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-083021		--	8/30/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-083021		--	8/30/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-083121		--	8/31/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-083121		--	8/31/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-090121		--	9/1/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-090121		--	9/1/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-090221		--	9/2/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-B-090221		--	9/2/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-091021		--	9/10/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-091522		--	9/15/21	µg/L	<1.0	<10	<1.0	<10	<1.0	<10	<10	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-101421		--	10/14/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-110521		--	11/5/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-A-010322		--	1/3/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-020822		--	2/8/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**8.8 J**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	TB-021122		--	2/11/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**9.2 J**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
Field Blanks																									
--	--	FB-EA182-082321		--	8/23/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**31**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**3.0**	<10
--	--	FB-EA182-082421		--	8/24/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**33**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**3.8**	<10
--	--	FB-DZ609-082521		--	8/25/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.9**	<10
--	--	FB-DZ609-082621		--	8/26/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**0.61 J**	<10
--	--	FB-DZ609-082721		--	8/27/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.6**	<10
--	--	FB-D2609-083021		--	8/30/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.3**	<10
--	--	FB-DZ609-083121		--	8/31/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.9**	<10
--	--	FB-DZ609-090121		--	9/1/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.3**	<10
--	--	FB-EA-182-090221		--	9/2/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**3.7**	<10
--	--	FB-DX348-091021		--	9/10/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.5**	<10
--	--	FB-091522		--	9/15/21	µg/L	<1.0	<10	<1.0	<10	<1.0	<10	<10	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	<1.0	<10
--	--	FB-EB152-091621		--	9/16/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**10 J**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.9**	<10
--	--	FB-EB152-101421		--	10/14/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.6**	<10
--	--	FB-EB152-101521		--	10/15/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.3**	<10
--	--	FB-EB152-110521		--	11/5/21	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.2**	<10
--	--	FB-EB152-010322		--	1/3/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**14 J**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.8**	<10

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																		
							2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane
EPA RSL Industrial (May 2023)							--	190,000,000	23,000,000	1,300,000	23,000,000	140,000,000	1,100,000,000	5,100	1,800,000	1,300	86,000	30,000	3,500,000	2,900	1,300,000	630,000	23,000,000	1,400	460,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	--	--	--	1,400	--	1,300	86,000	--	--	2,900	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	2,500,000	--	2,300,000	--	--	46,000	--	1,300,000	3,000,000	--	--	250,000	--	--	--	--	--
--	--	FB-A-010422		--	1/4/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**14 J**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.7**	<10
--	--	FB-A-010522		--	1/5/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	**15 J**	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.6**	<10
--	--	FB-D2838-020822		--	2/8/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**2.0**	<10
--	--	FB-D2838-021122		--	2/11/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.6**	<10
Potable Water Sample (Drilling Rig Tank Water)																									
--	--	RW-010322		--	1/3/22	µg/L	<1.0	<20	<1.0	<10	<1.0	<10	<20	<0.50	<1.0	**1.7**	<5.0	<25	<10	<0.50	<1.0	<2.0	<5.0	**1.6**	<10

NOTES:

17	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
<0.84	Denotes analyte not detected above the posted Reporting Limit (RL)
J	Concentration is below the RL but above the MDL so the result represents an estimated value
B	Compound was detected in the laboratory method blank and the sample
NA	Not analyzed or No Published Value
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)
EPA RSL Industrial (May 2023)							370,000	--	39,000	99,000	370,000	9,400,000	--	25,000	560,000	9,900,000	--	1,000,000	210,000	8,600	58,000,000	24,000,000	2,800,000	--	120,000,000	35,000,000	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	4,100	--	--	--	--	--	--	--	--	26,000	--	6,500	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							84,000	--	2,500,000	--	--	--	--	--	--	--	--	2,500,000	--	570,000	18,000,000	--	--	--	12,000,000	32,000,000	--
RFI Sample Results																											
5 (Fueling Station)	F5-1	F5-1-2.5		2.5	8/27/21	µg/kg	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<230	<0.93	<0.93	<0.93	<1.9	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93
		F5-1-5		5	8/27/21	µg/kg	<1.2	<1.2	<2.3	<1.2	<2.3	<1.2	<290	<1.2	<1.2	<1.2	<2.3	<12	<2.3	<12	<1.2	<2.3	<1.2	<1.2	<1.2	<1.2	<1.2
	F5-2	F5-2-2.5		2.5	8/27/21	µg/kg	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<220	<0.87	<0.87	<0.87	<1.7	<8.7	<1.7	<8.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<0.87
		F5-2-5		5	8/27/21	µg/kg	<1.6	<1.6	<3.1	<1.6	<3.1	<1.6	<390	<1.6	<1.6	<1.6	<3.1	<16	<3.1	<16	<1.6	<3.1	<1.6	<1.6	<1.6	<1.6	<1.6
6 (Unit 5 Peaker)	P-1	P-1-2.5		2.5	8/23/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<220	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
		P-1-5		5	8/23/21	µg/kg	<0.79	<0.79	<1.6	<0.79	<1.6	<0.79	<200	<0.79	<0.79	<0.79	<1.6	<7.9	<1.6	<7.9	<0.79	<1.6	<0.79	<0.79	<0.79	<0.79	<0.79
		P-1-10		10	8/23/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<240	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
	P-1B	P-1B-20		20	9/2/21	µg/kg	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<230	<0.93	<0.93	<0.93	<1.9	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93
		P-1B-40		40	9/2/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<210	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
	P-5	P-5-5		5	9/1/21	µg/kg	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	<270	<1.1	<1.1	<1.1	<2.2	<11	<2.2	<11	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
		P-5-20		20	9/1/21	µg/kg	<0.85	<0.85	<1.7	<0.85	<1.7	<0.85	<210	<0.85	<0.85	<0.85	<1.7	<8.5	<1.7	<8.5	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<0.85
	P-6	P-106-5	X	5	9/1/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	**90 J**	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
		P-6-5		5	9/1/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	<230	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
		P-6-20		20	9/1/21	µg/kg	<1.3	<1.3	<2.6	<1.3	<2.6	<1.3	<320	<1.3	<1.3	<1.3	<2.6	<13	<2.6	<13	<1.3	<2.6	<1.3	<1.3	<1.3	<1.3	<1.3
	P-8	P-8-5		5	9/10/21	µg/kg	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	**79 J**	<0.97	<0.97	<0.97	<1.9	<9.7	<1.9	<9.7	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<0.97
		P-8-20		20	9/10/21	µg/kg	<0.82	<0.82	<1.6	<0.82	<1.6	<0.82	<210	<0.82	<0.82	<0.82	**0.45 J**	<8.2	<1.6	<8.2	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<0.82
	P-9	P-9-5		5	9/10/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	**76 J**	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	**3.6**	<0.92	<0.92	<0.92
		P-9-20		20	9/10/21	µg/kg	<0.77	<0.77	<1.5	<0.77	<1.5	<0.77	<190	<0.77	<0.77	<0.77	<1.5	<7.7	<1.5	<7.7	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<0.77
	PT1-2	PT1-2-0.5		0.5	8/24/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<220	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
	PT1-3	PT1-3-0.5		0.5	8/24/21	µg/kg	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<230	<0.93	<0.93	<0.93	<1.9	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93
	PT2-1	PT2-1-0.5		0.5	8/23/21	µg/kg	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<220	<0.87	<0.87	<0.87	<1.7	<8.7	<1.7	<8.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<0.87
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	8/26/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	**79 J**	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		F11-101-0.5	X	0.5	8/26/21	µg/kg	<1.0	<1.0	<2.1	<1.0	<2.1	<1.0	**84 J**	<1.0	<1.0	<1.0	<2.1	<10	<2.1	<10	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<1.0
		F11-1-2.5		2.5	8/26/21	µg/kg	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	<280	<1.1	<1.1	<1.1	<2.2	<11	<2.2	<11	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
	F11-10	F11-10-0.5		0.5	8/26/21	µg/kg	<0.83	<0.83	<1.7	<0.83	<1.7	<0.83	**140 J**	<0.83	<0.83	<0.83	<1.7	<8.3	<1.7	<8.3	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83
		F11-110-0.5	X	0.5	8/26/21	µg/kg	<0.91	<0.91	<1.8	<0.91	<1.8	<0.91	**120 J**	<0.91	<0.91	<0.91	<1.8	<9.1	<1.8	<9.1	<0.91	<1.8	<0.91	<0.91	<0.91	<0.91	<0.91
		F11-10-2.5		2.5	8/26/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	**79 J**	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
	F11-2A	F11-2A-0.5		0.5	8/26/21	µg/kg	<0.98	<0.98	<2.0	<0.98	<2.0	<0.98	**150 J**	<0.98	<0.98	<0.98	<2.0	<9.8	<2.0	<9.8	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<0.98
		F11-2A-2.5		2.5	8/26/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	**84 J**	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
	F11-2B	F11-2B-0.5		0.5	8/26/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	**110 J**	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
		F11-2B-2.5		2.5	8/26/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<230	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
	F11-3	F11-3-0.5		0.5	8/26/21	µg/kg	<0.96	<0.96	<1.9	<0.96	<1.9	<0.96	**120 J**	<0.96	<0.96	<0.96	<1.9	<9.6	<1.9	<9.6	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<0.96
		F11-3-2.5		2.5	8/26/21	µg/kg	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	<280	<1.1	<1.1	<1.1	<2.2	<11	<2.2	<11	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
	F11-4	F11-4-0.5		0.5	8/31/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	**65 J**	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
		F11-4-2.5		2.5	8/31/21	µg/kg	<0.98	<0.98	<2.0	<0.98	<2.0	<0.98	<250	<0.98	<0.98	<0.98	<2.0	<9.8	<2.0	<9.8	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<0.98
	F11-5	F11-105-0.5	X	0.5	8/31/21	µg/kg	<1.0	<1.0	<2.1	<1.0	<2.1	<1.0	<260	<1.0	<1.0	<1.0	<2.1	<10	<2.1	<10	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<1.0
		F11-5-0.5		0.5	8/31/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<220	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
11 (Chadwick Channel)	F11-5	F11-5-2.5		2.5	8/31/21	µg/kg	<0.99	<0.99	<2.0	<0.99	<2.0	<0.99	<250	<0.99	<0.99	<0.99	<2.0	<9.9	<2.0	<9.9	<0.99	<2.0	<0.99	<0.99	<0.99	<0.99	<0.99
	F11-6	F11-6-0.5		0.5	8/31/21	µg/kg	<0.77	<0.77	<1.5	<0.77	<1.5	<0.77	**82 J**	<0.77	<0.77	<0.77	<1.5	<7.7	<1.5	<7.7	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<0.77
		F11-6-2.5		2.5	8/31/21	µg/kg	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<220	<0.87	<0.87	<0.87	<1.7	<8.7	<1.7	<8.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<0.87
	F11-7	F11-7-0.5		0.5	8/31/21	µg/kg	<0.96	<0.96	<1.9	<0.96	<1.9	<0.96	<240	<0.96	<0.96	<0.96	<1.9	<9.6	<1.9	<9.6	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<0.96
		F11-7-2.5		2.5	8/31/21	µg/kg	<0.99	<0.99	<2.0	<0.99	<2.0	<0.99	<250	<0.99	<0.99	<0.99	<2.0	<9.9	<2.0	<9.9	<0.99	<2.0	<0.99	<0.99	<0.99	<0.99	<0.99
	F11-8	F11-8-0.5		0.5	8/31/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<230	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
		F11-8-2.5		2.5	8/31/21	µg/kg	<1.0	<1.0	<2.1	<1.0	<2.1	<1.0	<260	<1.0	<1.0	<1.0	<2.1	<10	<2.1	<10	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<1.0
	F11-9	F11-9-0.5		0.5	8/26/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	**100 J**	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)
EPA RSL Industrial (May 2023)							370,000	--	39,000	99,000	370,000	9,400,000	--	25,000	560,000	9,900,000	--	1,000,000	210,000	8,600	58,000,000	24,000,000	2,800,000	--	120,000,000	35,000,000	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	4,100	--	--	--	--	--	--	--	--	26,000	--	6,500	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							84,000	--	2,500,000	--	--	--	--	--	--	--	--	2,500,000	--	570,000	18,000,000	--	--	--	12,000,000	32,000,000	--
14 (Haz Waste Accumulation Area)	F14-1	F14-1-0.5		0.5	8/25/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<210	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		F14-1-2.5		2.5	8/25/21	µg/kg	<0.95	<0.95	<1.9	<0.95	<1.9	<0.95	<240	<0.95	<0.95	<0.95	<1.9	<9.5	<1.9	<9.5	<0.95	<1.9	<0.95	<0.95	<0.95	<0.95	<0.95
17 (Maintenance Shop)	MS-10	MS-10-0.5		0.5	8/25/21	µg/kg	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<230	<0.93	<0.93	<0.93	<1.9	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93
		MS-10-2.5		2.5	8/25/21	µg/kg	<0.78	<0.78	<1.6	<0.78	<1.6	<0.78	<190	<0.78	<0.78	<0.78	<1.6	<7.8	<1.6	<7.8	<0.78	<1.6	<0.78	<0.78	<0.78	<0.78	<0.78
		MS-10-5		5	8/25/21	µg/kg	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	<270	<1.1	<1.1	<1.1	<2.2	<11	<2.2	<11	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
		MS-10-10		10	8/25/21	µg/kg	<1.2	<1.2	<2.4	<1.2	<2.4	<1.2	<310	<1.2	<1.2	<1.2	<2.4	<12	<2.4	<12	<1.2	<2.4	<1.2	<1.2	<1.2	<1.2	<1.2
		MS-10-20		20	8/25/21	µg/kg	<1.4	<1.4	<2.7	<1.4	<2.7	<1.4	**110 J**	<1.4	<1.4	<1.4	<2.7	<14	<2.7	<14	<1.4	<2.7	<1.4	<1.4	<1.4	<1.4	<1.4
	MS-11	MS-11-0.5		0.5	8/25/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	**120 J**	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
		MS-11-2.5		2.5	8/25/21	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<220	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
		MS-11-5		5	8/25/21	µg/kg	<0.99	<0.99	<2.0	<0.99	<2.0	<0.99	<250	<0.99	<0.99	<0.99	<2.0	<9.9	<2.0	<9.9	<0.99	<2.0	<0.99	<0.99	<0.99	<0.99	<0.99
		MS-11-10		10	8/25/21	µg/kg	<0.96	<0.96	<1.9	<0.96	<1.9	<0.96	<240	<0.96	<0.96	<0.96	<1.9	<9.6	<1.9	<9.6	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<0.96
		MS-111-10	X	10	8/25/21	µg/kg	<1.2	<1.2	<2.3	<1.2	<2.3	<1.2	<290	<1.2	<1.2	<1.2	<2.3	<12	<2.3	<12	<1.2	<2.3	<1.2	<1.2	<1.2	<1.2	<1.2
		MS-11-20		20	8/25/21	µg/kg	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	<270	<1.1	<1.1	<1.1	<2.2	<11	<2.2	<11	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
	MS-12	MS-12-0.5		0.5	8/25/21	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<220	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
		MS-12-2.5		2.5	8/25/21	µg/kg	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<260	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		MS-12-5		5	8/25/21	µg/kg	<1.5	<1.5	<3.0	<1.5	<3.0	<1.5	<380	<1.5	<1.5	<1.5	<3.0	<15	<3.0	<15	<1.5	<3.0	<1.5	<1.5	<1.5	<1.5	<1.5
		MS-12-10		10	8/25/21	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<230	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
		MS-12-20		20	8/25/21	µg/kg	<0.98	<0.98	<2.0	<0.98	<2.0	<0.98	<250	<0.98	<0.98	<0.98	<2.0	<9.8	<2.0	<9.8	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<0.98
	MS-13	MS-13-0.5		0.5	8/26/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	**71 J**	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
		MS-113-2.5	X	2.5	8/26/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<220	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
		MS-13-2.5		2.5	8/26/21	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	**100 J**	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
		MS-13-5		5	8/26/21	µg/kg	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	**120 J**	<0.93	<0.93	<0.93	<1.9	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93
		MS-13-10		10	8/26/21	µg/kg	<0.82	<0.82	<1.6	<0.82	<1.6	<0.82	<210	<0.82	<0.82	<0.82	<1.6	<8.2	<1.6	<8.2	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<0.82
		MS-13-20		20	8/26/21	µg/kg	<1.2	<1.2	<2.4	<1.2	<2.4	<1.2	<300	<1.2	<1.2	<1.2	<2.4	<12	<2.4	<12	<1.2	<2.4	<1.2	<1.2	<1.2	<1.2	<1.2
	MS-13B	MS-13B-35		35	9/2/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<230	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
		MS-13B-50		50	9/2/21	µg/kg	<1.0	<1.0	<2.1	<1.0	<2.1	<1.0	**110 J**	<1.0	<1.0	<1.0	<2.1	<10	<2.1	<10	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<1.0
	MS-14	MS-14-0.5		0.5	8/25/21	µg/kg	<0.91	<0.91	<1.8	<0.91	<1.8	<0.91	<230	<0.91	<0.91	<0.91	<1.8	<9.1	<1.8	<9.1	<0.91	<1.8	<0.91	<0.91	<0.91	<0.91	<0.91
		MS-14-2.5		2.5	8/25/21	µg/kg	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	<240	<0.97	<0.97	<0.97	<1.9	<9.7	<1.9	<9.7	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<0.97
		MS-14-5		5	8/25/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<240	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
17 (Maintenance Shop)	MS-15	MS-15-0.5		0.5	8/26/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	**72 J**	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
		MS-15-2.5		2.5	8/26/21	µg/kg	<0.96	<0.96	<1.9	<0.96	<1.9	<0.96	**97 J**	<0.96	<0.96	<0.96	<1.9	<9.6	<1.9	<9.6	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<0.96
		MS-15-5		5	8/26/21	µg/kg	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	**100 J**	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		MS-15-10		10	8/26/21	µg/kg	<1.3	<1.3	<2.6	<1.3	<2.6	<1.3	<330	<1.3	<1.3	<1.3	<2.6	<13	<2.6	<13	<1.3	<2.6	<1.3	<1.3	<1.3	<1.3	<1.3
		MS-15-20		20	8/26/21	µg/kg	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	<240	<0.97	<0.97	<0.97	<1.9	<9.7	<1.9	<9.7	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<0.97
	MS-16	MS-116-0.5	X	0.5	8/24/21	µg/kg	<0.81	<0.81	<1.6	<0.81	<1.6	<0.81	<200	<0.81	<0.81	<0.81	<1.6	<8.1	<1.6	<8.1	<0.81	<1.6	<0.81	<0.81	<0.81	<0.81	<0.81
		MS-16-0.5		0.5	8/24/21	µg/kg	<0.79	<0.79	<1.6	<0.79	<1.6	<0.79	<200	<0.79	<0.79	<0.79	<1.6	<7.9	<1.6	<7.9	<0.79	<1.6	<0.79	<0.79	<0.79	<0.79	<0.79
		MS-16-2.5		2.5	8/24/21	µg/kg	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<220	<0.87	<0.87	<0.87	<1.7	<8.7	<1.7	<8.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<0.87
		MS-16-5		5	8/24/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<220	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
		MS-16-10		10	8/24/21	µg/kg	<1.2	<1.2	<2.3	<1.2	<2.3	<1.2	<290	<1.2	<1.2	<1.2	<2.3	<12	<2.3	<12	<1.2	<2.3	<1.2	<1.2	<1.2	<1.2	<1.2
		MS-16-20		20	8/24/21	µg/kg	<1.1	<1.1	<2.3	<1.1	<2.3	<1.1	<280	<1.1	<1.1	<1.1	<2.3	<11	<2.3	<11	<1.1	<2.3	<1.1	<1.1	<1.1	<1.1	<1.1

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)
EPA RSL Industrial (May 2023)							370,000	--	39,000	99,000	370,000	9,400,000	--	25,000	560,000	9,900,000	--	1,000,000	210,000	8,600	58,000,000	24,000,000	2,800,000	--	120,000,000	35,000,000	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	4,100	--	--	--	--	--	--	--	--	26,000	--	6,500	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							84,000	--	2,500,000	--	--	--	--	--	--	--	--	2,500,000	--	570,000	18,000,000	--	--	--	12,000,000	32,000,000	--
17 (Maintenance Shop)	MS-17	MS-17-0.5		0.5	8/24/21	µg/kg	<0.82	<0.82	<1.6	<0.82	<1.6	<0.82	<210	<0.82	<0.82	<0.82	<1.6	<8.2	<1.6	<8.2	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<0.82
		MS-17-2.5		2.5	8/24/21	µg/kg	<1.3	<1.3	<2.6	<1.3	<2.6	<1.3	<320	<1.3	<1.3	<1.3	<2.6	<13	<2.6	<13	<1.3	<2.6	<1.3	<1.3	<1.3	<1.3	<1.3
		MS-17-5		5	8/24/21	µg/kg	<1.3	<1.3	<2.7	<1.3	<2.7	<1.3	<330	<1.3	<1.3	<1.3	<2.7	<13	<2.7	<13	<1.3	<2.7	<1.3	<1.3	<1.3	<1.3	<1.3
		MS-117-10	X	10	8/24/21	µg/kg	<0.78	<0.78	<1.6	<0.78	<1.6	<0.78	<190	<0.78	<0.78	<0.78	**0.40 J**	<7.8	<1.6	<7.8	<0.78	<1.6	<0.78	<0.78	<0.78	<0.78	<0.78
		MS-17-10		10	8/24/21	µg/kg	<0.83	<0.83	<1.7	<0.83	<1.7	<0.83	<210	<0.83	<0.83	<0.83	<1.7	<8.3	<1.7	<8.3	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83
		MS-17-20		20	8/24/21	µg/kg	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<220	<0.87	<0.87	<0.87	<1.7	<8.7	<1.7	<8.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<0.87
	MS-17B	MS-17B-40		40	9/2/21	µg/kg	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<260	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		MS-17B-60		60	9/2/21	µg/kg	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	<240	<0.97	<0.97	<0.97	<1.9	<9.7	<1.9	<9.7	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<0.97
	MS-18	MS-18-0.5		0.5	8/24/21	µg/kg	<0.85	<0.85	<1.7	<0.85	<1.7	<0.85	<210	<0.85	<0.85	<0.85	<1.7	<8.5	<1.7	<8.5	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<0.85
		MS-18-2.5		2.5	8/24/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	<230	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
		MS-18-5		5	8/24/21	µg/kg	<0.98	<0.98	<2.0	<0.98	<2.0	<0.98	<240	<0.98	<0.98	<0.98	<2.0	<9.8	<2.0	<9.8	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<0.98
	MS-19	MS-19-5		5	9/1/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	**73 J**	<0.94	<0.94	<0.94	**0.55 J**	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
		MS-19-20		20	9/1/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<210	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
	MS-20	MS-20-5		5	9/1/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<210	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
		MS-20-20		20	9/1/21	µg/kg	<0.69	<0.69	<1.4	<0.69	<1.4	<0.69	<170	<0.69	<0.69	<0.69	<1.4	<6.9	<1.4	<6.9	<0.69	<1.4	<0.69	<0.69	<0.69	<0.69	<0.69
	MS-21	MS-21-5		5	9/10/21	µg/kg	<0.91	<0.91	<1.8	<0.91	<1.8	<0.91	<230	<0.91	<0.91	<0.91	<1.8	<9.1	<1.8	<9.1	<0.91	<1.8	<0.91	<0.91	<0.91	<0.91	<0.91
		MS-21-20		20	9/10/21	µg/kg	<0.71	<0.71	<1.4	<0.71	<1.4	<0.71	**97 J**	<0.71	<0.71	<0.71	<1.4	<7.1	<1.4	<7.1	<0.71	<1.4	<0.71	<0.71	<0.71	<0.71	<0.71
	MS-22	MS-22-5		5	10/14/21	µg/kg	<1.0	<1.0	<2.1	<1.0	<2.1	<1.0	<260	<1.0	<1.0	<1.0	<2.1	<10	<2.1	<10	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<1.0
		MS-22-20		20	10/14/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<220	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
	MS-23	MS-123-5	X	5	10/14/22	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	**130 J**	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		MS-23-5		5	10/14/22	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	**70 J**	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
		MS-23-20		20	10/14/22	µg/kg	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<230	<0.93	<0.93	<0.93	<1.9	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93
	MS-23B	MS-23B-40		40	11/5/22	µg/kg	<0.91	<0.91	<1.8	<0.91	<1.8	<0.91	<230	<0.91	<0.91	<0.91	<1.8	<9.1	<1.8	<9.1	<0.91	<1.8	<0.91	<0.91	<0.91	<0.91	<0.91
		MS-23B-60		60	11/5/22	µg/kg	<0.85	<0.85	<1.7	<0.85	<1.7	<0.85	<210	<0.85	<0.85	<0.85	<1.7	<8.5	<1.7	<8.5	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<0.85
		MS-23B-80		80	11/5/22	µg/kg	<0.79	<0.79	<1.6	<0.79	<1.6	<0.79	<200	<0.79	<0.79	<0.79	<1.6	<7.9	<1.6	<7.9	<0.79	<1.6	<0.79	<0.79	<0.79	<0.79	<0.79
		MS-23B-100		100	11/5/22	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<240	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
	MS-23C	MS-23C-125		125	1/3/22	µg/kg	<0.96	<0.96	<1.9	<0.96	<1.9	<0.96	<240	<0.96	<0.96	<0.96	<1.9	<9.6	<1.9	<9.6	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<0.96
		MS-23C-150		150	1/4/22	µg/kg	<0.83	<0.83	<1.7	<0.83	<1.7	<0.83	<210	<0.83	<0.83	<0.83	<1.7	<8.3	<1.7	<8.3	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83
		MS-23C-190		190	1/5/22	µg/kg	<1.2	<1.2	<2.4	<1.2	<2.4	<1.2	<300	<1.2	<1.2	<1.2	<2.4	<12	<2.4	<12	<1.2	<2.4	<1.2	<1.2	<1.2	<1.2	<1.2
		MS-23C-200		200	1/5/22	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<220	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
	MS-24	MS-24-20		20	10/14/22	µg/kg	<1.1	<1.1	<2.1	<1.1	<2.1	<1.1	<260	<1.1	<1.1	<1.1	<2.1	<11	<2.1	<11	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<1.1
	MS-25	MS-25-20		20	10/14/22	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<220	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
	MS-26	MS-26-20		20	10/15/22	µg/kg	<0.95	<0.95	<1.9	<0.95	<1.9	<0.95	<240	<0.95	<0.95	<0.95	<1.9	<9.5	<1.9	<9.5	<0.95	<1.9	<0.95	<0.95	<0.95	<0.95	<0.95
	MS-27	MS-27-5		5	10/15/22	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<210	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		MS-127-20	X	20	10/15/22	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	<230	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
		MS-27-20		20	10/15/22	µg/kg	<0.98	<0.98	<2.0	<0.98	<2.0	<0.98	<250	<0.98	<0.98	<0.98	<2.0	<9.8	<2.0	<9.8	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<0.98
	MS-28	MS-28-5		5	11/5/22	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<220	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
	MS-29	MS-29-20		20	2/8/22	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	**70 J**	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
	MS-30	MS-30-20		20	2/8/22	µg/kg	<0.80	<0.80	<1.6	<0.80	<1.6	<0.80	<200	<0.80	<0.80	<0.80	<1.6	<8.0	<1.6	<8.0	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<0.80
	MS-31	MS-31-20		20	2/8/22	µg/kg	<0.83	<0.83	<1.7	<0.83	<1.7	<0.83	<210	<0.83	<0.83	<0.83	<1.7	<8.3	<1.7	<8.3	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83
	MS-32	MS-32-5		5	2/11/22	µg/kg	<0.82	<0.82	<1.6	<0.82	<1.6	<0.82	<200	<0.82	<0.82	<0.82	<1.6	<8.2	<1.6	<8.2	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<0.82
		MS-32-20		20	2/11/22	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<220	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)
EPA RSL Industrial (May 2023)							370,000	--	39,000	99,000	370,000	9,400,000	--	25,000	560,000	9,900,000	--	1,000,000	210,000	8,600	58,000,000	24,000,000	2,800,000	--	120,000,000	35,000,000	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	4,100	--	--	--	--	--	--	--	--	26,000	--	6,500	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							84,000	--	2,500,000	--	--	--	--	--	--	--	--	2,500,000	--	570,000	18,000,000	--	--	--	12,000,000	32,000,000	--
17 (Maintenance Shop)	SS-1B	SS-1B-0.5		0.5	8/24/21	µg/kg	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<220	<0.87	<0.87	<0.87	<1.7	<8.7	<1.7	<8.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<0.87
		SS-1B-2.5		2.5	8/24/21	µg/kg	<0.77	<0.77	<1.5	<0.77	<1.5	<0.77	<190	<0.77	<0.77	<0.77	<1.5	<7.7	<1.5	<7.7	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<0.77
		SS-1B-5		5	8/24/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<220	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
		SS-1B-10		10	8/24/21	µg/kg	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<260	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		SS-1B-20		20	8/24/21	µg/kg	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	<240	<0.97	<0.97	<0.97	<1.9	<9.7	<1.9	<9.7	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<0.97
	SS-4	SS-4-0.5		0.5	8/24/21	µg/kg	<0.73	<0.73	<1.5	<0.73	<1.5	<0.73	<200	<0.73	<0.73	<0.73	<1.5	<7.3	<1.5	<7.3	<0.73	<1.5	<0.73	<0.73	<0.73	<0.73	<0.73
		SS-4-2.5		2.5	8/24/21	µg/kg	<0.95	<0.95	<1.9	<0.95	<1.9	<0.95	<240	<0.95	<0.95	<0.95	<1.9	<9.5	<1.9	<9.5	<0.95	<1.9	<0.95	<0.95	<0.95	<0.95	<0.95
		SS-4-5		5	8/24/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<220	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		SS-4-10		10	8/24/21	µg/kg	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	<240	<0.97	<0.97	<0.97	<1.9	<9.7	<1.9	<9.7	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<0.97
		SS-4-20		20	8/24/21	µg/kg	<1.2	<1.2	<2.4	<1.2	<2.4	<1.2	<300	<1.2	<1.2	<1.2	**0.58 J**	<12	<2.4	<12	<1.2	<2.4	<1.2	<1.2	<1.2	<1.2	<1.2
	SS-5	SS-105-0.5	X	0.5	8/24/21	µg/kg	<0.82	<0.82	<1.6	<0.82	<1.6	<0.82	<200	<0.82	<0.82	<0.82	<1.6	<8.2	<1.6	<8.2	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<0.82
		SS-5-0.5		0.5	8/24/21	µg/kg	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<230	<0.93	<0.93	<0.93	<1.9	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93
		SS-5-2.5		2.5	8/24/21	µg/kg	<0.80	<0.80	<1.6	<0.80	<1.6	<0.80	**66 J**	<0.80	<0.80	<0.80	<1.6	<8.0	<1.6	<8.0	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<0.80
		SS-5-5		5	8/24/21	µg/kg	<0.77	<0.77	<1.5	<0.77	<1.5	<0.77	<190	<0.77	<0.77	<0.77	<1.5	<7.7	<1.5	<7.7	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<0.77
	SS-6	SS-6-0.5		0.5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<0.75	<1.5	<0.75	<190	<0.75	<0.75	<0.75	<1.5	<7.5	<1.5	<7.5	<0.75	<1.5	<0.75	<0.75	<0.75	<0.75	<0.75
		SS-6-2.5		2.5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<0.75	<1.5	<0.75	<190	<0.75	<0.75	<0.75	<1.5	<7.5	<1.5	<7.5	<0.75	<1.5	<0.75	<0.75	<0.75	<0.75	<0.75
		SS-6-5		5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<0.75	<1.5	<0.75	<190	<0.75	<0.75	<0.75	<1.5	<7.5	<1.5	<7.5	<0.75	<1.5	<0.75	<0.75	<0.75	<0.75	<0.75
	SS-7	SS-7-0.5		0.5	8/23/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<210	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
		SS-7-2.5		2.5	8/23/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<210	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		SS-7-5		5	8/23/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<220	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
	SS-8	SS-8-0.5		0.5	8/23/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<210	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		SS-108-2.5	X	2.5	8/23/21	µg/kg	<0.80	<0.80	<1.6	<0.80	<1.6	<0.80	<200	<0.80	<0.80	<0.80	<1.6	<8.0	<1.6	<8.0	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<0.80
		SS-8-2.5		2.5	8/23/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<210	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
		SS-8-5		5	8/23/21	µg/kg	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<230	<0.87	<0.87	<0.87	<1.7	<8.7	<1.7	<8.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<0.87
	SS-9	SS-9-0.5		0.5	8/23/21	µg/kg	<0.77	<0.77	<1.5	<0.77	<1.5	<0.77	**59 J**	<0.77	<0.77	<0.77	<1.5	<7.7	<1.5	<7.7	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<0.77
		SS-9-2.5		2.5	8/23/21	µg/kg	<0.75	<0.75	<1.5	<0.75	<1.5	<0.75	<190	<0.75	<0.75	<0.75	<1.5	<7.5	<1.5	<7.5	<0.75	<1.5	<0.75	<0.75	<0.75	<0.75	<0.75
		SS-9-5		5	8/23/21	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<180	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
	SS-10	SS-10-0.5		0.5	8/23/21	µg/kg	<0.77	<0.77	<1.5	<0.77	<1.5	<0.77	**63 J**	<0.77	<0.77	<0.77	<1.5	<7.7	<1.5	<7.7	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<0.77
		SS-10-2.5		2.5	8/23/21	µg/kg	<0.80	<0.80	<1.6	<0.80	<1.6	<0.80	**120 J**	<0.80	<0.80	<0.80	<1.6	<8.0	<1.6	<8.0	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<0.80
		SS-10-5		5	8/23/21	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<230	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
		SS-10-10		10	8/23/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<220	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
		SS-110-10	X	10	8/23/21	µg/kg	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	**120 J**	<1.1	<1.1	<1.1	<2.2	<11	<2.2	<11	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
		SS-10-20		20	8/23/21	µg/kg	<1.2	<1.2	<2.3	<1.2	<2.3	<1.2	**120 J**	<1.2	<1.2	<1.2	<2.3	<12	<2.3	<12	<1.2	<2.3	<1.2	<1.2	<1.2	<1.2	<1.2
	SS-11	SS-11-0.5		0.5	8/25/21	µg/kg	<0.66	<0.66	<1.3	<0.66	<1.3	<0.66	<170	**0.19 J**	<0.66	<0.66	**0.69 J**	<6.6	<1.3	<6.6	<0.66	<1.3	<0.66	<0.66	<0.66	<0.66	<0.66
		SS-11-2.5		2.5	8/25/21	µg/kg	<0.82	<0.82	<1.6	<0.82	<1.6	<0.82	<200	<0.82	<0.82	<0.82	<1.6	<8.2	<1.6	<8.2	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<0.82
		SS-111-5	X	5	8/25/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<230	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
		SS-11-5		5	8/25/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<220	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
		SS-11-10		10	8/25/21	µg/kg	<1.2	<1.2	<2.4	<1.2	<2.4	<1.2	<300	<1.2	<1.2	<1.2	<2.4	<12	<2.4	<12	<1.2	<2.4	<1.2	<1.2	<1.2	<1.2	<1.2
	SS-12	SS-12-0.5		0.5	8/24/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<200	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
		SS-12-2.5		2.5	8/24/21	µg/kg	<0.82	<0.82	<1.6	<0.82	<1.6	<0.82	**61 J**	<0.82	<0.82	<0.82	<1.6	<8.2	<1.6	<8.2	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<0.82
		SS-12-5		5	8/24/21	µg/kg	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<250	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
		SS-12-10		10	8/24/21	µg/kg	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	<280	<1.1	<1.1	<1.1	<2.2	<11	<2.2	<11	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
		SS-12-20		20	8/24/21	µg/kg	<0.95	<0.95	<1.9	<0.95	<1.9	<0.95	<240	<0.95	<0.95	<0.95	<1.9	<9.5	<1.9	<9.5	<0.95	<1.9	<0.95	<0.95	<0.95	<0.95	<0.95

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)
EPA RSL Industrial (May 2023)							370,000	--	39,000	99,000	370,000	9,400,000	--	25,000	560,000	9,900,000	--	1,000,000	210,000	8,600	58,000,000	24,000,000	2,800,000	--	120,000,000	35,000,000	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	4,100	--	--	--	--	--	--	--	--	26,000	--	6,500	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							84,000	--	2,500,000	--	--	--	--	--	--	--	--	2,500,000	--	570,000	18,000,000	--	--	--	12,000,000	32,000,000	--
25 (Units 3/4 Transformers)	T3-4-2	T3-4-2-0.5		0.5	9/1/21	µg/kg	<0.90	<0.90	<1.8	<0.90	<1.8	<0.90	<230	<0.90	<0.90	<0.90	<1.8	<9.0	<1.8	<9.0	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<0.90
	T3-4-4	T3-4-4-0.5		0.5	9/2/21	µg/kg	<2.7	<2.7	<5.4	<2.7	<5.4	<2.7	<670	<2.7	<2.7	<2.7	<5.4	<27	<5.4	<27	<2.7	<5.4	<2.7	<2.7	<2.7	<2.7	<2.7
	T3-4-5	T3-4-5-0.5		0.5	9/2/21	µg/kg	<0.77	<0.77	<1.5	<0.77	<1.5	<0.77	<190	<0.77	<0.77	<0.77	<1.5	<7.7	**0.23 J**	<7.7	<0.77	<1.5	<0.77	<0.77	<0.77	<0.77	<0.77
		T3-4-5-2.5		2.5	9/2/21	µg/kg	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<220	<0.88	<0.88	<0.88	<1.8	<8.8	<1.8	<8.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<0.88
	T3-4-8	T3-4-8-0.5		0.5	9/2/21	µg/kg	<0.94	<0.94	<1.9	<0.94	<1.9	<0.94	<230	<0.94	<0.94	<0.94	<1.9	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<0.94
25 (Units 3/4 Transformers)	T3-4-14	T3-4-14-0.5		0.5	9/1/21	µg/kg	<0.80	<0.80	<1.6	<0.80	<1.6	<0.80	**140 J**	<0.80	<0.80	<0.80	<1.6	<8.0	<1.6	<8.0	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<0.80
	T3-4-15	T3-4-15-0.5		0.5	9/1/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<210	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
		T3-4-15-2.5		2.5	9/1/21	µg/kg	<0.80	<0.80	<1.6	<0.80	<1.6	<0.80	<200	<0.80	<0.80	<0.80	<1.6	<8.0	<1.6	<8.0	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<0.80
26 (Units 1/2 Transformers)	T1-2-13	T1-2-13-0.5		0.5	8/31/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<220	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
	T1-2-14	T1-2-14-0.5		0.5	8/31/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	<230	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
	T1-2-15	T1-2-15-0.5		0.5	8/31/21	µg/kg	<0.83	<0.83	<1.7	<0.83	<1.7	<0.83	<210	<0.83	<0.83	<0.83	<1.7	<8.3	<1.7	<8.3	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83
		T1-2-15-2.5		2.5	8/31/21	µg/kg	<0.83	<0.83	<1.7	<0.83	<1.7	<0.83	<210	<0.83	<0.83	<0.83	<1.7	<8.3	<1.7	<8.3	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83
	T1-2-16	T1-2-16-0.5		0.5	8/31/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<210	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
	T1-2-19	T1-2-19-0.5		0.5	8/30/21	µg/kg	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<220	<0.86	<0.86	<0.86	<1.7	<8.6	<1.7	<8.6	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
	T1-2-22	T1-2-22-0.5		0.5	8/30/21	µg/kg	<0.96	<0.96	<1.9	<0.96	<1.9	<0.96	<240	<0.96	<0.96	<0.96	<1.9	<9.6	<1.9	<9.6	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<0.96
	T1-2-26	T1-2-26-2.5		2.5	8/30/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<220	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
	T1-2-32	T1-2-32-0.5		0.5	8/26/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	**95 J**	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
36 (Former Haz Waste Area)	F36-1	F36-1-0.5		0.5	8/24/21	µg/kg	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<210	<0.84	<0.84	<0.84	<1.7	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<0.84
		F36-1-2.5		2.5	8/24/21	µg/kg	<0.91	<0.91	<1.8	<0.91	<1.8	<0.91	**66 J**	<0.91	<0.91	<0.91	<1.8	<9.1	<1.8	<9.1	<0.91	<1.8	<0.91	<0.91	<0.91	<0.91	<0.91
	F36-2	F36-2-0.5		0.5	8/24/21	µg/kg	<0.85	<0.85	<1.7	<0.85	<1.7	<0.85	<210	<0.85	<0.85	<0.85	<1.7	<8.5	<1.7	<8.5	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<0.85
		F36-2-2.5		2.5	8/24/21	µg/kg	<0.85	<0.85	<1.7	<0.85	<1.7	<0.85	<210	<0.85	<0.85	<0.85	<1.7	<8.5	<1.7	<8.5	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<0.85
	F36-3	F36-3-0.5		0.5	8/25/21	µg/kg	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<220	<0.89	<0.89	<0.89	<1.8	<8.9	<1.8	<8.9	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
		F36-3-2.5		2.5	8/25/21	µg/kg	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	<230	<0.92	<0.92	<0.92	<1.8	<9.2	<1.8	<9.2	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<0.92
Equipment Rinsate Blanks																											
--	--	EB-B-082321		--	8/23/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-A-082421		--	8/24/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-B-082521		--	8/25/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-A-082721		--	8/27/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-B-082721		--	8/27/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-B-083021		--	8/30/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-A-083121		--	8/31/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-B-083121		--	8/31/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-A1-090121		--	9/1/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-B-090121		--	9/1/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-A2-090221		--	9/2/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-A-010322		--	1/3/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-020822		--	2/8/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	EB-021122		--	2/11/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																			
							cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)
EPA RSL Industrial (May 2023)							370,000	--	39,000	99,000	370,000	9,400,000	--	25,000	560,000	9,900,000	--	1,000,000	210,000	8,600	58,000,000	24,000,000	2,800,000	--	120,000,000	35,000,000	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	4,100	--	--	--	--	--	--	--	--	26,000	--	6,500	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							84,000	--	2,500,000	--	--	--	--	--	--	--	--	2,500,000	--	570,000	18,000,000	--	--	--	12,000,000	32,000,000	--
Trip Blanks																											
--	--	TB-A-082321		--	8/23/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-082321		--	8/23/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-082421		--	8/24/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-082421		--	8/24/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-082521		--	8/25/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-082521		--	8/25/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-082621		--	8/26/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-082621		--	8/26/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-082721		--	8/27/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-083021		--	8/30/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-083021		--	8/30/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-083121		--	8/31/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-083121		--	8/31/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-090121		--	9/1/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-090121		--	9/1/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-090221		--	9/2/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-B-090221		--	9/2/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-091021		--	9/10/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-091522		--	9/15/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-101421		--	10/14/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-110521		--	11/5/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-A-010322		--	1/3/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-020822		--	2/8/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	TB-021122		--	2/11/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
Field Blanks																											
--	--	FB-EA182-082321		--	8/23/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-EA182-082421		--	8/24/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-DZ609-082521		--	8/25/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-DZ609-082621		--	8/26/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-DZ609-082721		--	8/27/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-D2609-083021		--	8/30/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<0.30 J B	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-DZ609-083121		--	8/31/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-DZ609-090121		--	9/1/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-EA-182-090221		--	9/2/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-DX348-091021		--	9/10/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-091522		--	9/15/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-EB152-091621		--	9/16/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-EB152-101421		--	10/14/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-EB152-101521		--	10/15/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-EB152-110521		--	11/5/21	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-EB152-010322		--	1/3/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260																				
							cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)
EPA RSL Industrial (May 2023)							370,000	--	39,000	99,000	370,000	9,400,000	--	25,000	560,000	9,900,000	--	1,000,000	210,000	8,600	58,000,000	24,000,000	2,800,000	--	120,000,000	35,000,000	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	4,100	--	--	--	--	--	--	--	--	26,000	--	6,500	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							84,000	--	2,500,000	--	--	--	--	--	--	--	--	2,500,000	--	570,000	18,000,000	--	--	--	12,000,000	32,000,000	--
--	--	FB-A-010422		--	1/4/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-A-010522		--	1/5/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-D2838-020822		--	2/8/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
--	--	FB-D2838-021122		--	2/11/22	µg/L	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
Potable Water Sample (Drilling Rig Tank Water)																											
--	--	RW-010322		--	1/3/22	µg/L	<1.0	<0.50	**1.8 J**	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0

NOTES:

17	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
<0.84	Denotes analyte not detected above the posted Reporting Limit (RL)
J	Concentration is below the RL but above the MDL so the result represents an estimated value
B	Compound was detected in the laboratory method blank and the sample
NA	Not analyzed or No Published Value
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260									
							tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Vinylacetate
EPA RSL Industrial (May 2023)							6,500,000	120,000,000	100,000	47,000,000	300,000	--	6,000	350,000,000	1,700	3,800,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	2,700	--	--	--	--	--	150	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	12,000,000	390,000	5,300,000	600,000	--	--	5,400,000	370,000	--
RFI Sample Results																
5 (Fueling Station)	F5-1	F5-1-2.5		2.5	8/27/21	µg/kg	<19	<0.93	<0.93	<0.93	<0.93	<1.9	<1.9	<9.3	<0.93	<9.3
		F5-1-5		5	8/27/21	µg/kg	<23	<1.2	<1.2	<1.2	<1.2	<2.3	<2.3	<12	<1.2	<12
	F5-2	F5-2-2.5		2.5	8/27/21	µg/kg	<17	<0.87	<0.87	<0.87	<0.87	<1.7	<1.7	<8.7	<0.87	<8.7
		F5-2-5		5	8/27/21	µg/kg	<31	<1.6	<1.6	<1.6	<1.6	<3.1	<3.1	<16	<1.6	<16
6 (Unit 5 Peaker)	P-1	P-1-2.5		2.5	8/23/21	µg/kg	<18	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
		P-1-5		5	8/23/21	µg/kg	<16	<0.79	<0.79	<0.79	<0.79	<1.6	<1.6	<7.9	<0.79	<7.9
		P-1-10		10	8/23/21	µg/kg	<19	<0.94	<0.94	**0.74 J**	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
	P-1B	P-1B-20		20	9/2/21	µg/kg	<19	<0.93	<0.93	<0.93	<0.93	<1.9	<1.9	<9.3	<0.93	<9.3
		P-1B-40		40	9/2/21	µg/kg	<17	<0.84	<0.84	**0.65 J**	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
	P-5	P-5-5		5	9/1/21	µg/kg	<22	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<11	<1.1	<11
		P-5-20		20	9/1/21	µg/kg	<17	<0.85	<0.85	<0.85	<0.85	<1.7	<1.7	<8.5	<0.85	<8.5
	P-6	P-106-5	X	5	9/1/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
		P-6-5		5	9/1/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
		P-6-20		20	9/1/21	µg/kg	<26	<1.3	<1.3	<1.3	<1.3	<2.6	<2.6	<13	<1.3	<13
	P-8	P-8-5		5	9/10/21	µg/kg	<19	<0.97	<0.97	<0.97	<0.97	<1.9	<1.9	<9.7	<0.97	<9.7
		P-8-20		20	9/10/21	µg/kg	<16	<0.82	<0.82	**0.57 J**	<0.82	<1.6	<1.6	<8.2	<0.82	<8.2
	P-9	P-9-5		5	9/10/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
		P-9-20		20	9/10/21	µg/kg	<15	<0.77	<0.77	<0.77	<0.77	<1.5	<1.5	<7.7	<0.77	<7.7
	PT1-2	PT1-2-0.5		0.5	8/24/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
	PT1-3	PT1-3-0.5		0.5	8/24/21	µg/kg	<19	<0.93	<0.93	<0.93	<0.93	<1.9	<1.9	<9.3	<0.93	<9.3
	PT2-1	PT2-1-0.5		0.5	8/23/21	µg/kg	**7.4 J**	<0.87	<0.87	<0.87	<0.87	<1.7	<1.7	<8.7	<0.87	<8.7
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	8/26/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		F11-101-0.5	X	0.5	8/26/21	µg/kg	<21	<1.0	<1.0	<1.0	<1.0	<2.1	<2.1	<10	<1.0	<10
		F11-1-2.5		2.5	8/26/21	µg/kg	<22	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<11	<1.1	<11
	F11-10	F11-10-0.5		0.5	8/26/21	µg/kg	<17	<0.83	<0.83	<0.83	<0.83	<1.7	<1.7	<8.3	<0.83	<8.3
		F11-110-0.5	X	0.5	8/26/21	µg/kg	<18	<0.91	<0.91	<0.91	<0.91	<1.8	<1.8	<9.1	<0.91	<9.1
		F11-10-2.5		2.5	8/26/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
	F11-2A	F11-2A-0.5		0.5	8/26/21	µg/kg	<20	<0.98	<0.98	<0.98	<0.98	<2.0	<2.0	<9.8	<0.98	<9.8
		F11-2A-2.5		2.5	8/26/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
	F11-2B	F11-2B-0.5		0.5	8/26/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
		F11-2B-2.5		2.5	8/26/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
	F11-3	F11-3-0.5		0.5	8/26/21	µg/kg	<19	<0.96	<0.96	<0.96	<0.96	<1.9	<1.9	<9.6	<0.96	<9.6
		F11-3-2.5		2.5	8/26/21	µg/kg	<22	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<11	<1.1	<11
	F11-4	F11-4-0.5		0.5	8/31/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
		F11-4-2.5		2.5	8/31/21	µg/kg	<20	<0.98	<0.98	<0.98	<0.98	<2.0	<2.0	<9.8	<0.98	<9.8
	F11-5	F11-105-0.5	X	0.5	8/31/21	µg/kg	<21	<1.0	<1.0	<1.0	<1.0	<2.1	<2.1	<10	<1.0	<10
		F11-5-0.5		0.5	8/31/21	µg/kg	**7.8 J**	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
11 (Chadwick Channel)	F11-5	F11-5-2.5		2.5	8/31/21	µg/kg	**7.3 J**	<0.99	<0.99	<0.99	<0.99	<2.0	<2.0	<9.9	<0.99	<9.9
	F11-6	F11-6-0.5		0.5	8/31/21	µg/kg	**12 J**	<0.77	<0.77	<0.77	<0.77	<1.5	<1.5	<7.7	<0.77	<7.7
		F11-6-2.5		2.5	8/31/21	µg/kg	<17	<0.87	<0.87	<0.87	<0.87	<1.7	<1.7	<8.7	<0.87	<8.7
	F11-7	F11-7-0.5		0.5	8/31/21	µg/kg	<19	<0.96	<0.96	<0.96	<0.96	<1.9	<1.9	<9.6	<0.96	<9.6
		F11-7-2.5		2.5	8/31/21	µg/kg	<20	<0.99	<0.99	<0.99	<0.99	<2.0	<2.0	<9.9	<0.99	<9.9
	F11-8	F11-8-0.5		0.5	8/31/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
		F11-8-2.5		2.5	8/31/21	µg/kg	<21	<1.0	<1.0	<1.0	<1.0	<2.1	<2.1	<10	<1.0	<10
	F11-9	F11-9-0.5		0.5	8/26/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260									
							tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Vinylacetate
EPA RSL Industrial (May 2023)							6,500,000	120,000,000	100,000	47,000,000	300,000	--	6,000	350,000,000	1,700	3,800,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	2,700	--	--	--	--	--	150	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	12,000,000	390,000	5,300,000	600,000	--	--	5,400,000	370,000	--
14 (Haz Waste Accumulation Area)	F14-1	F14-1-0.5		0.5	8/25/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		F14-1-2.5		2.5	8/25/21	µg/kg	<19	<0.95	<0.95	<0.95	<0.95	<1.9	<1.9	<9.5	<0.95	<9.5
17 (Maintenance Shop)	MS-10	MS-10-0.5		0.5	8/25/21	µg/kg	<19	<0.93	<0.93	<0.93	<0.93	<1.9	<1.9	<9.3	<0.93	<9.3
		MS-10-2.5		2.5	8/25/21	µg/kg	<16	<0.78	<0.78	<0.78	<0.78	<1.6	<1.6	<7.8	<0.78	<7.8
		MS-10-5		5	8/25/21	µg/kg	<22	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<11	<1.1	<11
		MS-10-10		10	8/25/21	µg/kg	<24	<1.2	<1.2	<1.2	<1.2	<2.4	<2.4	<12	<1.2	<12
		MS-10-20		20	8/25/21	µg/kg	<27	<1.4	<1.4	<1.4	<1.4	<2.7	<2.7	<14	<1.4	<14
	MS-11	MS-11-0.5		0.5	8/25/21	µg/kg	<18	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
		MS-11-2.5		2.5	8/25/21	µg/kg	**15 J**	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
		MS-11-5		5	8/25/21	µg/kg	**14 J**	<0.99	<0.99	<0.99	<0.99	<2.0	<2.0	<9.9	<0.99	<9.9
		MS-11-10		10	8/25/21	µg/kg	<19	<0.96	<0.96	<0.96	<0.96	<1.9	<1.9	<9.6	<0.96	<9.6
		MS-111-10	X	10	8/25/21	µg/kg	<23	<1.2	<1.2	<1.2	<1.2	<2.3	<2.3	<12	<1.2	<12
		MS-11-20		20	8/25/21	µg/kg	<22	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<11	<1.1	<11
	MS-12	MS-12-0.5		0.5	8/25/21	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
		MS-12-2.5		2.5	8/25/21	µg/kg	<20	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<10	<1.0	<10
		MS-12-5		5	8/25/21	µg/kg	<30	<1.5	<1.5	<1.5	<1.5	<3.0	<3.0	<15	<1.5	<15
		MS-12-10		10	8/25/21	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
		MS-12-20		20	8/25/21	µg/kg	<20	<0.98	<0.98	<0.98	<0.98	<2.0	<2.0	<9.8	<0.98	<9.8
	MS-13	MS-13-0.5		0.5	8/26/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
		MS-113-2.5	X	2.5	8/26/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
		MS-13-2.5		2.5	8/26/21	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
		MS-13-5		5	8/26/21	µg/kg	<19	<0.93	<0.93	<0.93	<0.93	<1.9	<1.9	<9.3	<0.93	<9.3
		MS-13-10		10	8/26/21	µg/kg	<16	<0.82	<0.82	<0.82	<0.82	<1.6	<1.6	<8.2	<0.82	<8.2
		MS-13-20		20	8/26/21	µg/kg	<24	<1.2	<1.2	<1.2	<1.2	<2.4	<2.4	<12	<1.2	<12
	MS-13B	MS-13B-35		35	9/2/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
		MS-13B-50		50	9/2/21	µg/kg	<21	<1.0	<1.0	<1.0	<1.0	<2.1	<2.1	<10	<1.0	<10
	MS-14	MS-14-0.5		0.5	8/25/21	µg/kg	<18	<0.91	<0.91	<0.91	<0.91	<1.8	<1.8	<9.1	<0.91	<9.1
		MS-14-2.5		2.5	8/25/21	µg/kg	<19	<0.97	<0.97	<0.97	<0.97	<1.9	<1.9	<9.7	<0.97	<9.7
		MS-14-5		5	8/25/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
17 (Maintenance Shop)	MS-15	MS-15-0.5		0.5	8/26/21	µg/kg	<18	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
		MS-15-2.5		2.5	8/26/21	µg/kg	**8.6 J**	<0.96	<0.96	<0.96	<0.96	<1.9	<1.9	<9.6	<0.96	<9.6
		MS-15-5		5	8/26/21	µg/kg	<20	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<10	<1.0	<10
		MS-15-10		10	8/26/21	µg/kg	<26	<1.3	<1.3	**1.1 J**	<1.3	<2.6	<2.6	<13	<1.3	<13
		MS-15-20		20	8/26/21	µg/kg	<19	<0.97	<0.97	<0.97	<0.97	<1.9	<1.9	<9.7	<0.97	<9.7
	MS-16	MS-116-0.5	X	0.5	8/24/21	µg/kg	<16	<0.81	<0.81	<0.81	<0.81	<1.6	<1.6	<8.1	<0.81	<8.1
		MS-16-0.5		0.5	8/24/21	µg/kg	<16	<0.79	<0.79	<0.79	<0.79	<1.6	<1.6	<7.9	<0.79	<7.9
		MS-16-2.5		2.5	8/24/21	µg/kg	**17**	<0.87	<0.87	<0.87	<0.87	<1.7	<1.7	<8.7	<0.87	<8.7
		MS-16-5		5	8/24/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
		MS-16-10		10	8/24/21	µg/kg	<23	<1.2	<1.2	<1.2	<1.2	<2.3	<2.3	<12	<1.2	<12
		MS-16-20		20	8/24/21	µg/kg	<23	<1.1	<1.1	<1.1	<1.1	<2.3	<2.3	<11	<1.1	<11

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260									
							tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Vinylacetate
EPA RSL Industrial (May 2023)							6,500,000	120,000,000	100,000	47,000,000	300,000	--	6,000	350,000,000	1,700	3,800,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	2,700	--	--	--	--	--	150	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	12,000,000	390,000	5,300,000	600,000	--	--	5,400,000	370,000	--
17 (Maintenance Shop)	MS-17	MS-17-0.5		0.5	8/24/21	µg/kg	<16	<0.82	<0.82	<0.82	<0.82	<1.6	<1.6	<8.2	<0.82	<8.2
		MS-17-2.5		2.5	8/24/21	µg/kg	<26	<1.3	<1.3	<1.3	<1.3	<2.6	<2.6	<13	<1.3	<13
		MS-17-5		5	8/24/21	µg/kg	<27	<1.3	<1.3	<1.3	<1.3	<2.7	<2.7	<13	<1.3	<13
		MS-117-10	X	10	8/24/21	µg/kg	<16	<0.78	<0.78	**0.89**	<0.78	<1.6	<1.6	<7.8	<0.78	<7.8
		MS-17-10		10	8/24/21	µg/kg	<17	<0.83	<0.83	<0.83	<0.83	<1.7	<1.7	<8.3	<0.83	<8.3
		MS-17-20		20	8/24/21	µg/kg	<17	<0.87	<0.87	<0.87	<0.87	<1.7	<1.7	<8.7	<0.87	<8.7
	MS-17B	MS-17B-40		40	9/2/21	µg/kg	<20	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<10	<1.0	<10
		MS-17B-60		60	9/2/21	µg/kg	<19	<0.97	<0.97	<0.97	<0.97	<1.9	<1.9	<9.7	<0.97	<9.7
	MS-18	MS-18-0.5		0.5	8/24/21	µg/kg	<17	<0.85	<0.85	<0.85	<0.85	<1.7	<1.7	<8.5	<0.85	<8.5
		MS-18-2.5		2.5	8/24/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
		MS-18-5		5	8/24/21	µg/kg	<20	<0.98	<0.98	<0.98	<0.98	<2.0	<2.0	<9.8	<0.98	<9.8
	MS-19	MS-19-5		5	9/1/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
		MS-19-20		20	9/1/21	µg/kg	<17	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
	MS-20	MS-20-5		5	9/1/21	µg/kg	<17	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
		MS-20-20		20	9/1/21	µg/kg	<14	<0.69	<0.69	<0.69	<0.69	<1.4	<1.4	<6.9	<0.69	<6.9
	MS-21	MS-21-5		5	9/10/21	µg/kg	<18	<0.91	<0.91	**0.58 J**	<0.91	<1.8	<1.8	<9.1	<0.91	<9.1
		MS-21-20		20	9/10/21	µg/kg	<14	<0.71	<0.71	<0.71	<0.71	<1.4	<1.4	<7.1	<0.71	<7.1
	MS-22	MS-22-5		5	10/14/21	µg/kg	<21	<1.0	<1.0	<1.0	<1.0	<2.1	<2.1	<10	<1.0	<10
		MS-22-20		20	10/14/21	µg/kg	<18	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
	MS-23	MS-123-5	X	5	10/14/22	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		MS-23-5		5	10/14/22	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
		MS-23-20		20	10/14/22	µg/kg	<19	<0.93	<0.93	<0.93	<0.93	<1.9	<1.9	<9.3	<0.93	<9.3
	MS-23B	MS-23B-40		40	11/5/22	µg/kg	<18	<0.91	<0.91	**0.66 J**	<0.91	<1.8	<1.8	<9.1	<0.91	<9.1
		MS-23B-60		60	11/5/22	µg/kg	<17	<0.85	<0.85	**0.38 J**	<0.85	<1.7	<1.7	<8.5	<0.85	<8.5
		MS-23B-80		80	11/5/22	µg/kg	<16	<0.79	<0.79	<0.79	<0.79	<1.6	<1.6	<7.9	<0.79	<7.9
		MS-23B-100		100	11/5/22	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
	MS-23C	MS-23C-125		125	1/3/22	µg/kg	<19	<0.96	<0.96	<0.96	<0.96	<1.9	<1.9	<9.6	<0.96	<9.6
		MS-23C-150		150	1/4/22	µg/kg	<17	<0.83	<0.83	<0.83	<0.83	<1.7	<1.7	<8.3	<0.83	<8.3
		MS-23C-190		190	1/5/22	µg/kg	<24	<1.2	<1.2	<1.2	<1.2	<2.4	<2.4	<12	<1.2	<12
		MS-23C-200		200	1/5/22	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
	MS-24	MS-24-20		20	10/14/22	µg/kg	<21	<1.1	<1.1	<1.1	<1.1	<2.1	<2.1	<11	<1.1	<11
	MS-25	MS-25-20		20	10/14/22	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
	MS-26	MS-26-20		20	10/15/22	µg/kg	<19	<0.95	<0.95	<0.95	<0.95	<1.9	<1.9	<9.5	<0.95	<9.5
	MS-27	MS-27-5		5	10/15/22	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		MS-127-20	X	20	10/15/22	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
		MS-27-20		20	10/15/22	µg/kg	<20	<0.98	<0.98	<0.98	<0.98	<2.0	<2.0	<9.8	<0.98	<9.8
	MS-28	MS-28-5		5	11/5/22	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
	MS-29	MS-29-20		20	2/8/22	µg/kg	<17	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
	MS-30	MS-30-20		20	2/8/22	µg/kg	<16	<0.80	<0.80	<0.80	<0.80	<1.6	<1.6	<8.0	<0.80	<8.0
	MS-31	MS-31-20		20	2/8/22	µg/kg	<17	<0.83	<0.83	<0.83	<0.83	<1.7	<1.7	<8.3	<0.83	<8.3
	MS-32	MS-32-5		5	2/11/22	µg/kg	<16	<0.82	<0.82	<0.82	<0.82	<1.6	<1.6	<8.2	<0.82	<8.2
		MS-32-20		20	2/11/22	µg/kg	<18	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260									
							tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Vinylacetate
EPA RSL Industrial (May 2023)							6,500,000	120,000,000	100,000	47,000,000	300,000	--	6,000	350,000,000	1,700	3,800,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	2,700	--	--	--	--	--	150	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	12,000,000	390,000	5,300,000	600,000	--	--	5,400,000	370,000	--
17 (Maintenance Shop)	SS-1B	SS-1B-0.5		0.5	8/24/21	µg/kg	<17	<0.87	<0.87	<0.87	<0.87	<1.7	<1.7	<8.7	<0.87	<8.7
		SS-1B-2.5		2.5	8/24/21	µg/kg	<15	<0.77	<0.77	<0.77	<0.77	<1.5	<1.5	<7.7	<0.77	<7.7
		SS-1B-5		5	8/24/21	µg/kg	<18	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
		SS-1B-10		10	8/24/21	µg/kg	<20	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<10	<1.0	<10
		SS-1B-20		20	8/24/21	µg/kg	<19	<0.97	<0.97	<0.97	<0.97	<1.9	<1.9	<9.7	<0.97	<9.7
	SS-4	SS-4-0.5		0.5	8/24/21	µg/kg	**5.4 J**	<0.73	<0.73	<0.73	<0.73	<1.5	<1.5	<7.3	<0.73	<7.3
		SS-4-2.5		2.5	8/24/21	µg/kg	<19	<0.95	<0.95	<0.95	<0.95	<1.9	<1.9	<9.5	<0.95	<9.5
		SS-4-5		5	8/24/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		SS-4-10		10	8/24/21	µg/kg	<19	<0.97	<0.97	<0.97	<0.97	<1.9	<1.9	<9.7	<0.97	<9.7
		SS-4-20		20	8/24/21	µg/kg	<24	<1.2	<1.2	**1.2**	<1.2	<2.4	<2.4	<12	<1.2	<12
	SS-5	SS-105-0.5	X	0.5	8/24/21	µg/kg	<16	<0.82	<0.82	<0.82	<0.82	<1.6	<1.6	<8.2	<0.82	<8.2
		SS-5-0.5		0.5	8/24/21	µg/kg	<19	<0.93	<0.93	<0.93	<0.93	<1.9	<1.9	<9.3	<0.93	<9.3
		SS-5-2.5		2.5	8/24/21	µg/kg	**10 J**	<0.80	<0.80	<0.80	<0.80	<1.6	<1.6	<8.0	<0.80	<8.0
		SS-5-5		5	8/24/21	µg/kg	<15	<0.77	<0.77	<0.77	<0.77	<1.5	<1.5	<7.7	<0.77	<7.7
	SS-6	SS-6-0.5		0.5	8/23/21	µg/kg	<15	<0.75	<0.75	<0.75	<0.75	<1.5	<1.5	<7.5	<0.75	<7.5
		SS-6-2.5		2.5	8/23/21	µg/kg	<15	<0.75	<0.75	<0.75	<0.75	<1.5	<1.5	<7.5	<0.75	<7.5
		SS-6-5		5	8/23/21	µg/kg	<15	<0.75	<0.75	<0.75	<0.75	<1.5	<1.5	<7.5	<0.75	<7.5
	SS-7	SS-7-0.5		0.5	8/23/21	µg/kg	<17	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
		SS-7-2.5		2.5	8/23/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		SS-7-5		5	8/23/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
	SS-8	SS-8-0.5		0.5	8/23/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		SS-108-2.5	X	2.5	8/23/21	µg/kg	<16	<0.80	<0.80	<0.80	<0.80	<1.6	<1.6	<8.0	<0.80	<8.0
		SS-8-2.5		2.5	8/23/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
		SS-8-5		5	8/23/21	µg/kg	<19	<0.87	<0.87	<0.87	<0.87	<1.7	<1.7	<8.7	<0.87	<8.7
	SS-9	SS-9-0.5		0.5	8/23/21	µg/kg	<15	<0.77	<0.77	<0.77	<0.77	<1.5	<1.5	<7.7	<0.77	<7.7
		SS-9-2.5		2.5	8/23/21	µg/kg	<15	<0.75	<0.75	<0.75	<0.75	<1.5	<1.5	<7.5	<0.75	<7.5
		SS-9-5		5	8/23/21	µg/kg	<15	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
	SS-10	SS-10-0.5		0.5	8/23/21	µg/kg	<15	<0.77	<0.77	<0.77	<0.77	<1.5	<1.5	<7.7	<0.77	<7.7
		SS-10-2.5		2.5	8/23/21	µg/kg	<16	<0.80	<0.80	<0.80	<0.80	<1.6	<1.6	<8.0	<0.80	<8.0
		SS-10-5		5	8/23/21	µg/kg	<18	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
		SS-10-10		10	8/23/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
		SS-110-10	X	10	8/23/21	µg/kg	**10 J**	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<11	<1.1	<11
		SS-10-20		20	8/23/21	µg/kg	<23	<1.2	<1.2	<1.2	<1.2	<2.3	<2.3	<12	<1.2	<12
	SS-11	SS-11-0.5		0.5	8/25/21	µg/kg	**28**	<0.66	<0.66	<0.66	<0.66	<1.3	<1.3	<6.6	<0.66	<6.6
		SS-11-2.5		2.5	8/25/21	µg/kg	<16	<0.82	<0.82	<0.82	<0.82	<1.6	<1.6	<8.2	<0.82	<8.2
		SS-111-5	X	5	8/25/21	µg/kg	<19	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
		SS-11-5		5	8/25/21	µg/kg	<18	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
		SS-11-10		10	8/25/21	µg/kg	<24	<1.2	<1.2	<1.2	<1.2	<2.4	<2.4	<12	<1.2	<12
	SS-12	SS-12-0.5		0.5	8/24/21	µg/kg	**6.7 J**	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
		SS-12-2.5		2.5	8/24/21	µg/kg	<16	<0.82	<0.82	<0.82	<0.82	<1.6	<1.6	<8.2	<0.82	<8.2
		SS-12-5		5	8/24/21	µg/kg	<20	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<10	<1.0	<10
		SS-12-10		10	8/24/21	µg/kg	**7.9 J**	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<11	<1.1	<11
		SS-12-20		20	8/24/21	µg/kg	<19	<0.95	<0.95	<0.95	<0.95	<1.9	<1.9	<9.5	<0.95	<9.5

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260									
							tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Vinylacetate
EPA RSL Industrial (May 2023)							6,500,000	120,000,000	100,000	47,000,000	300,000	--	6,000	350,000,000	1,700	3,800,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	2,700	--	--	--	--	--	150	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	12,000,000	390,000	5,300,000	600,000	--	--	5,400,000	370,000	--
25 (Units 3/4 Transformers)	T3-4-2	T3-4-2-0.5		0.5	9/1/21	µg/kg	**11 J**	<0.90	<0.90	<0.90	<0.90	<1.8	<1.8	<9.0	<0.90	<9.0
	T3-4-4	T3-4-4-0.5		0.5	9/2/21	µg/kg	<54	<2.7	<2.7	<2.7	<2.7	<5.4	<5.4	<27	<2.7	<27
	T3-4-5	T3-4-5-0.5		0.5	9/2/21	µg/kg	**7.0 J**	<0.77	<0.77	<0.77	<0.77	<1.5	<1.5	<7.7	<0.77	<7.7
		T3-4-5-2.5		2.5	9/2/21	µg/kg	**15 J**	<0.88	<0.88	<0.88	<0.88	<1.8	<1.8	<8.8	<0.88	<8.8
	T3-4-8	T3-4-8-0.5		0.5	9/2/21	µg/kg	**10 J**	<0.94	<0.94	<0.94	<0.94	<1.9	<1.9	<9.4	<0.94	<9.4
25 (Units 3/4 Transformers)	T3-4-14	T3-4-14-0.5		0.5	9/1/21	µg/kg	<16	<0.80	<0.80	<0.80	<0.80	<1.6	<1.6	<8.0	<0.80	<8.0
	T3-4-15	T3-4-15-0.5		0.5	9/1/21	µg/kg	**7.6 J**	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
		T3-4-15-2.5		2.5	9/1/21	µg/kg	**14 J**	<0.80	<0.80	<0.80	<0.80	<1.6	<1.6	<8.0	<0.80	<8.0
26 (Units 1/2 Transformers)	T1-2-13	T1-2-13-0.5		0.5	8/31/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
	T1-2-14	T1-2-14-0.5		0.5	8/31/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
	T1-2-15	T1-2-15-0.5		0.5	8/31/21	µg/kg	<17	<0.83	<0.83	<0.83	<0.83	<1.7	<1.7	<8.3	<0.83	<8.3
		T1-2-15-2.5		2.5	8/31/21	µg/kg	**6.6 J**	<0.83	<0.83	<0.83	<0.83	<1.7	<1.7	<8.3	<0.83	<8.3
	T1-2-16	T1-2-16-0.5		0.5	8/31/21	µg/kg	<17	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
	T1-2-19	T1-2-19-0.5		0.5	8/30/21	µg/kg	<17	<0.86	<0.86	<0.86	<0.86	<1.7	<1.7	<8.6	<0.86	<8.6
	T1-2-22	T1-2-22-0.5		0.5	8/30/21	µg/kg	<19	<0.96	<0.96	<0.96	<0.96	<1.9	<1.9	<9.6	<0.96	<9.6
	T1-2-26	T1-2-26-2.5		2.5	8/30/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
	T1-2-32	T1-2-32-0.5		0.5	8/26/21	µg/kg	**10 J**	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
36 (Former Haz Waste Area)	F36-1	F36-1-0.5		0.5	8/24/21	µg/kg	<17	<0.84	<0.84	<0.84	<0.84	<1.7	<1.7	<8.4	<0.84	<8.4
		F36-1-2.5		2.5	8/24/21	µg/kg	<18	<0.91	<0.91	<0.91	<0.91	<1.8	<1.8	<9.1	<0.91	<9.1
	F36-2	F36-2-0.5		0.5	8/24/21	µg/kg	<17	<0.85	<0.85	<0.85	<0.85	<1.7	<1.7	<8.5	<0.85	<8.5
		F36-2-2.5		2.5	8/24/21	µg/kg	<17	<0.85	<0.85	<0.85	<0.85	<1.7	<1.7	<8.5	<0.85	<8.5
	F36-3	F36-3-0.5		0.5	8/25/21	µg/kg	<18	<0.89	<0.89	<0.89	<0.89	<1.8	<1.8	<8.9	<0.89	<8.9
		F36-3-2.5		2.5	8/25/21	µg/kg	<18	<0.92	<0.92	<0.92	<0.92	<1.8	<1.8	<9.2	<0.92	<9.2
Equipment Rinsate Blanks																
--	--	EB-B-082321		--	8/23/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-A-082421		--	8/24/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-B-082521		--	8/25/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-A-082721		--	8/27/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-B-082721		--	8/27/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-B-083021		--	8/30/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-A-083121		--	8/31/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-B-083121		--	8/31/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-A1-090121		--	9/1/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-B-090121		--	9/1/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-A2-090221		--	9/2/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-A-010322		--	1/3/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-020822		--	2/8/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	EB-021122		--	2/11/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10

Table 3
RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260									
							tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Vinylacetate
EPA RSL Industrial (May 2023)							6,500,000	120,000,000	100,000	47,000,000	300,000	--	6,000	350,000,000	1,700	3,800,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	2,700	--	--	--	--	--	150	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	12,000,000	390,000	5,300,000	600,000	--	--	5,400,000	370,000	--
Trip Blanks																
--	--	TB-A-082321		--	8/23/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-082321		--	8/23/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-082421		--	8/24/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-082421		--	8/24/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-082521		--	8/25/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-082521		--	8/25/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-082621		--	8/26/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-082621		--	8/26/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-082721		--	8/27/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-083021		--	8/30/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-083021		--	8/30/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-083121		--	8/31/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-083121		--	8/31/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-090121		--	9/1/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-090121		--	9/1/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-090221		--	9/2/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-B-090221		--	9/2/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-091021		--	9/10/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-091522		--	9/15/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-101421		--	10/14/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-110521		--	11/5/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-A-010322		--	1/3/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-020822		--	2/8/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	TB-021122		--	2/11/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
Field Blanks																
--	--	FB-EA182-082321		--	8/23/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-EA182-082421		--	8/24/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-DZ609-082521		--	8/25/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-DZ609-082621		--	8/26/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-DZ609-082721		--	8/27/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-D2609-083021		--	8/30/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-DZ609-083121		--	8/31/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-DZ609-090121		--	9/1/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-EA-182-090221		--	9/2/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-DX348-091021		--	9/10/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-091522		--	9/15/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-EB152-091621		--	9/16/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-EB152-101421		--	10/14/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-EB152-101521		--	10/15/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-EB152-110521		--	11/5/21	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-EB152-010322		--	1/3/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10

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RFI Soil Sample Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8260									
							tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Vinylacetate
EPA RSL Industrial (May 2023)							6,500,000	120,000,000	100,000	47,000,000	300,000	--	6,000	350,000,000	1,700	3,800,000
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	2,700	--	--	--	--	--	150	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	12,000,000	390,000	5,300,000	600,000	--	--	5,400,000	370,000	--
--	--	FB-A-010422		--	1/4/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-A-010522		--	1/5/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-D2838-020822		--	2/8/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
--	--	FB-D2838-021122		--	2/11/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10
Potable Water Sample (Drilling Rig Tank Water)																
--	--	RW-010322		--	1/3/22	µg/L	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<0.50	<10

NOTES:

17	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
<0.84	Denotes analyte not detected above the posted Reporting Limit (RL)
J	Concentration is below the RL but above the MDL so the result represents an estimated value
B	Compound was detected in the laboratory method blank and the sample
NA	Not analyzed or No Published Value
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 4
RFI Soil Sample Analytical Results - Semi Volatile Organic Compounds (SVOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8270C																		
							1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3 & 4 Methylphenol
EPA RSL Industrial (May 2023)							110	9,300	--	11	73	82,000	210	2,500	16,000	1,600	7.4	--	1.5	60,000	5,800	3,000	41,000	8,000	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							35	--	--	--	30	--	21	--	--	--	4.7	--	0.99	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							260	--	--	--	22,000	53,000	530	1,600	11,000	1,100	1,000	--	160	27,000	3,900	1,300	26,000	5,200	--	--
RFI Sample Results																									
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
		F11-101-0.5	X	0.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.98
		F11-1-2.5		2.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.99
	F11-10	F11-10-0.5		0.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.98
		F11-110-0.5	X	0.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.98
		F11-10-2.5		2.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
	F11-2A	F11-2A-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
		F11-2A-2.5		2.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.98
	F11-2B	F11-2B-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
		F11-2B-2.5		2.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
	F11-3	F11-3-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
		F11-3-2.5		2.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.98
	F11-4	F11-4-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
		F11-4-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
	F11-5	F11-105-0.5	X	0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
		F11-5-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
		F11-5-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
	F11-6	F11-6-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
		F11-6-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
	F11-7	F11-7-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
		F11-7-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
	F11-8	F11-8-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
		F11-8-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
	F11-9	F11-9-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99
Equipment Rinsate Blanks																									
--	--	EB-B-083121		--	08/31/21	µg/L	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<48	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7
--	--	EB-B-090121		--	09/01/21	µg/L	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<48	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6

NOTES:

<0.50	Denotes analyte not detected above the posted Reporting Limit (RL)
--	Not Aanalyzed, No Published Value, or Not Applicable
mg/kg	Milligrams per kilogram
µg/L	micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 4
RFI Soil Sample Analytical Results - Semi Volatile Organic Compounds (SVOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8270C																		
							3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Aniline	Anthracene	Azobenzene	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
EPA RSL Industrial (May 2023)							5.1	--	66	--	82,000	11	--	110	--	45,000	--	400	230,000	26	0.01	21	2.1	21	--	210
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							1.2	--	--	--	--	7.4	--	74	--	--	--	260	--	--	0.003	12	1.3	13	--	130
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	--	42	--	53,000	2,100	--	2,100	--	23,000	--	3,700	130,000	--	1,600	--	130	--	--	--
RFI Sample Results																									
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-101-0.5	X	0.5	08/26/21	mg/kg	<2.5	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<4.9	<0.49	<0.49	<0.49	<0.49	<0.49
		F11-1-2.5		2.5	08/26/21	mg/kg	<2.5	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<4.9	<0.49	<0.49	<0.49	<0.49	<0.49
	F11-10	F11-10-0.5		0.5	08/26/21	mg/kg	<2.4	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<4.9	<0.49	<0.49	<0.49	<0.49	<0.49
		F11-110-0.5	X	0.5	08/26/21	mg/kg	<2.5	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<4.9	<0.49	<0.49	<0.49	<0.49	<0.49
		F11-10-2.5		2.5	08/26/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	F11-2A	F11-2A-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-2A-2.5		2.5	08/26/21	mg/kg	<2.4	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<4.9	<0.49	<0.49	<0.49	<0.49	<0.49
	F11-2B	F11-2B-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-2B-2.5		2.5	08/26/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	F11-3	F11-3-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-3-2.5		2.5	08/26/21	mg/kg	<2.4	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<4.9	<0.49	<0.49	<0.49	<0.49	<0.49
	F11-4	F11-4-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-4-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	F11-5	F11-105-0.5	X	0.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-5-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-5-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	F11-6	F11-6-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-6-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	F11-7	F11-7-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-7-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	F11-8	F11-8-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
		F11-8-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
	F11-9	F11-9-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50
Equipment Rinsate Blanks																									
--	--	EB-B-083121		--	08/31/21	µg/L	<24	<9.7	<48	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<48	<9.7	<9.7	<9.7	<9.7	<9.7
--	--	EB-B-090121		--	09/01/21	µg/L	<24	<9.6	<48	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<48	<9.6	<9.6	<9.6	<9.6	<9.6

NOTES:

<0.50	Denotes analyte not detected above the posted Reporting Limit (RL)
--	Not Aanalyzed, No Published Value, or Not Applicable
mg/kg	Milligrams per kilogram
µg/L	micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 4
RFI Soil Sample Analytical Results - Semi Volatile Organic Compounds (SVOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8270C																			
							Benzoic acid	Benzyl alcohol	bis (2-chloroisopropyl) ether	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Diethylphthalate	Dimethyl phthalate	Di-N-Butyl phthalate	Di-N-Octyl phthalate	Fluoranthene	Fluorene	Hexachloro-1,3-butadiene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane
EPA RSL Industrial (May 2023)							3,300,000	82,000	47,000	2,500	1	160	1,200	2,100	2.1	1,200	660,000	--	82,000	8,200	30,000	30,000	5.3	0.96	7.5	8
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	--	--	--	0.47	110	780	1,300	0.31	--	--	--	--	--	--	--	5.3	0.86	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							2,100,000	53,000	16,000	1,600	--	11,000	110,000	--	--	650	420,000	--	53,000	5,300	18,000	17,000	160	470	--	--
RFI Sample Results																										
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-101-0.5	X	0.5	08/26/21	mg/kg	<2.5	<0.49	<0.49	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<1.5	<0.49
		F11-1-2.5		2.5	08/26/21	mg/kg	<2.5	<0.49	<0.49	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<1.5	<0.49
	F11-10	F11-10-0.5		0.5	08/26/21	mg/kg	<2.4	<0.49	<0.49	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<1.5	<0.49
		F11-110-0.5	X	0.5	08/26/21	mg/kg	<2.5	<0.49	<0.49	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<1.5	<0.49
		F11-10-2.5		2.5	08/26/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
	F11-2A	F11-2A-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	**0.29 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-2A-2.5		2.5	08/26/21	mg/kg	<2.4	<0.49	<0.49	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<1.5	<0.49
	F11-2B	F11-2B-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-2B-2.5		2.5	08/26/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
	F11-3	F11-3-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-3-2.5		2.5	08/26/21	mg/kg	<2.4	<0.49	<0.49	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<1.5	<0.49
	F11-4	F11-4-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-4-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
	F11-5	F11-105-0.5	X	0.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-5-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-5-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
	F11-6	F11-6-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-6-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
	F11-7	F11-7-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-7-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
	F11-8	F11-8-0.5		0.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
		F11-8-2.5		2.5	08/31/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
	F11-9	F11-9-0.5		0.5	08/26/21	mg/kg	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50
Equipment Rinsate Blanks																										
--	--	EB-B-083121		--	08/31/21	µg/L	<48	<9.7	<9.7	<9.7	<24	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<24	<9.7
--	--	EB-B-090121		--	09/01/21	µg/L	<48	<9.6	<9.6	<9.6	<24	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<24	<9.6

NOTES:

<0.50	Denotes analyte not detected above the posted Reporting Limit (RL)
--	Not Aanalyzed, No Published Value, or Not Applicable
mg/kg	Milligrams per kilogram
µg/L	micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 4
RFI Soil Sample Analytical Results - Semi Volatile Organic Compounds (SVOCs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8270C											
							Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	N-Nitrosodimethylamine	N-Nitroso-di-N-propylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
EPA RSL Industrial (May 2023)							21	2,400	8.6	22	0.034	0.33	470	4	--	250,000	23,000	1,200
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							13	1,600	6.5	--	--	0.21	300	2	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	110,000	570	--	--	--	--	1,500	--	160,000	13,000	530
RFI Sample Results																		
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-101-0.5	X	0.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49
		F11-1-2.5		2.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49
	F11-10	F11-10-0.5		0.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49
		F11-110-0.5	X	0.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<2.5	<0.49	<0.49	<0.49	<0.49
		F11-10-2.5		2.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
	F11-2A	F11-2A-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-2A-2.5		2.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49
	F11-2B	F11-2B-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-2B-2.5		2.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
	F11-3	F11-3-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-3-2.5		2.5	08/26/21	mg/kg	<0.49	<0.49	<0.49	<2.0	<0.49	<0.49	<0.49	<2.4	<0.49	<0.49	<0.49	<0.49
	F11-4	F11-4-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-4-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
	F11-5	F11-105-0.5	X	0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-5-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-5-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
	F11-6	F11-6-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-6-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
	F11-7	F11-7-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-7-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
	F11-8	F11-8-0.5		0.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		F11-8-2.5		2.5	08/31/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
	F11-9	F11-9-0.5		0.5	08/26/21	mg/kg	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
Equipment Rinsate Blanks																		
--	--	EB-B-083121		--	08/31/21	µg/L	<9.7	<9.7	<9.7	<24	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7
--	--	EB-B-090121		--	09/01/21	µg/L	<9.6	<9.6	<9.6	<24	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6

NOTES:

<0.50	Denotes analyte not detected above the posted Reporting Limit (RL)
--	Not Aanalyzed, No Published Value, or Not Applicable
mg/kg	Milligrams per kilogram
µg/L	micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)

Table 5
RFI Soil Sample Analytical Results - Metals and pH

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 6020/7471A																EPA Method 9045C	
							Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury	Laboratory pH (s.u.)	Temperature (Deg C)
EPA RSL Industrial (May 2023)							470	3	220000	2300	100		350	47000	800	5800	22000	5800	5800	12	5800	350000	46	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	0.36	--	6900	--	--	--	--	--	--	64000	--	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	4.2	--	230	--	--	--	--	500	--	11000	--	--	--	--	--	4.4	--	--
DTSC Southern California Ambient Arsenic Screening Level (1)							--	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RFI Sample Results																									
5 (Fueling Station)	F5-1	F5-1-2.5		2.5	08/27/21	mg/kg	--	--	--	--	--	--	--	--	18.7	--	--	--	--	--	--	--	--	--	--
		F5-1-5		5	08/27/21	mg/kg	--	--	--	--	--	--	--	--	16.1	--	--	--	--	--	--	--	--	--	--
	F5-2	F5-2-2.5		2.5	08/27/21	mg/kg	--	--	--	--	--	--	--	--	16.9	--	--	--	--	--	--	--	--	--	--
		F5-2-5		5	08/27/21	mg/kg	--	--	--	--	--	--	--	--	15.2	--	--	--	--	--	--	--	--	--	--
14 (Haz Waste Accumulation Area)	F14-1	F14-1-0.5		0.5	08/25/21	mg/kg	<2.05	<1.03	**98.3**	<1.03	<1.03	**3.38**	**3.11**	**3.94**	**3.20**	<1.03	**3.57**	<1.03	<1.03	<1.03	**12.8**	**26.7**	**0.0230 J**	--	--
		F14-1-2.5		2.5	08/25/21	mg/kg	<1.91	<0.957	**47.6**	<0.957	<0.957	**1.54 J**	**1.52**	**2.02**	**1.64**	<0.957	**1.93**	<0.957	<0.957	<0.957	**6.64**	**13.3**	<0.0833	--	--
17 (Maintenance Shop)	MS-10	MS-10-0.5		0.5	08/25/21	mg/kg	<1.97	**0.348 J**	**61.5**	<0.985	<0.985	**4.76**	**3.34**	**4.16**	**4.37**	<0.985	**2.81**	<0.985	<0.985	<0.985	**12.5**	**24.0**	<0.0820	--	--
		MS-10-2.5		2.5	08/25/21	mg/kg	<2.11	<1.05	**114**	<1.05	<1.05	**5.22**	**3.69**	**4.09**	**2.44**	<1.05	**3.81**	<1.05	<1.05	<1.05	**11.6**	**26.7**	<0.0833	--	--
		MS-10-5		5	08/25/21	mg/kg	<1.90	<0.952	**142**	<0.952	<0.952	**6.68**	**4.44**	**5.01**	**3.44**	<0.952	**4.69**	<0.952	<0.952	<0.952	**14.4**	**32.7**	<0.0877	--	--
	MS-12	MS-12-0.5		0.5	08/25/21	mg/kg	<2.05	<1.03	**37.9**	<1.03	<1.03	**2.59**	**2.12**	**2.48**	**3.07**	<1.03	**1.55**	<1.03	<1.03	<1.03	**7.29**	**14.0**	<0.0820	--	--
		MS-12-2.5		2.5	08/25/21	mg/kg	<2.01	**0.343 J**	**56.0**	<1.01	<1.01	**3.58**	**2.76**	**3.56**	**3.96**	<1.01	**2.33**	<1.01	<1.01	<1.01	**10.1**	**19.2**	<0.0806	--	--
		MS-12-5		5	08/25/21	mg/kg	<1.92	**0.425 J**	**58.1**	<0.962	<0.962	**4.40**	**3.10**	**3.79**	**4.17**	<0.962	**2.53**	<0.962	<0.962	<0.962	**10.8**	**22.3**	<0.0847	--	--
	MS-14	MS-14-0.5		0.5	08/25/21	mg/kg	<2.06	<1.03	**120**	<1.03	<1.03	**6.62**	**4.58**	**4.99**	**3.09**	<1.03	**4.49**	<1.03	<1.03	<1.03	**14.7**	**33.6**	**0.0224 J**	--	--
		MS-14-2.5		2.5	08/25/21	mg/kg	<1.91	<0.957	**127**	<0.957	<0.957	**5.54**	**3.81**	**4.37**	**2.94**	<0.957	**3.92**	<0.957	<0.957	<0.957	**11.2**	**28.1**	<0.0862	--	--
		MS-14-5		5	08/25/21	mg/kg	<2.00	**0.382 J**	**94.8**	<1.00	<1.00	**5.90**	**3.72**	**8.44**	**10.2**	<1.00	**16.2**	<1.00	<1.00	<1.00	**32.0**	**36.0**	<0.0820	--	--
	MS-16	MS-116-0.5	X	0.5	08/24/21	mg/kg	<1.99	**0.376 J**	**56.5**	<0.995	**0.739 J**	**5.09**	**3.55**	**5.89**	**2.08**	<0.995	**17.7**	<0.995	<0.995	<0.995	**13.5**	**42.0**	**0.0182 J B**	--	--
		MS-16-0.5		0.5	08/24/21	mg/kg	<2.01	<1.01	**56.3**	<1.01	**0.710 J**	**3.94**	**3.41**	**4.92**	**1.97**	<1.01	**18.0**	<1.01	<1.01	<1.01	**11.6**	**37.8**	**0.0324 J B**	--	--
		MS-16-2.5		2.5	08/24/21	mg/kg	<1.93	**0.432 J**	**59.5**	**0.209 J**	**0.848 J**	**4.96**	**4.04**	**6.16**	**2.15**	<0.966	**22.3**	<0.966	<0.966	<0.966	**14.1**	**46.7**	**0.0197 J B**	--	--
		MS-16-5		5	08/24/21	mg/kg	<2.06	<1.03	**51.8**	<1.03	**0.707 J**	**4.00**	**3.08**	**4.69**	**1.86**	<1.03	**14.8**	<1.03	<1.03	<1.03	**11.3**	**32.2**	**0.0262 J B**	--	--
	MS-17	MS-17-0.5		0.5	08/24/21	mg/kg	<2.00	<1.00	**43.5**	<1.00	<1.00	**3.84**	**2.60**	**3.42**	**1.52**	<1.00	**8.13**	<1.00	<1.00	<1.00	**10.4**	**20.9**	**0.0970 B**	--	--
		MS-17-2.5		2.5	08/24/21	mg/kg	<2.11	**0.394 J**	**50.8**	<1.05	**0.842 J**	**4.13**	**4.05**	**6.69**	**2.03**	<1.05	**28.0**	<1.05	<1.05	<1.05	**13.0**	**58.9**	**0.176 B**	--	--
		MS-17-5		5	08/24/21	mg/kg	<1.95	<0.976	**62.0**	**0.209 J**	**1.06**	**5.14**	**4.92**	**8.03**	**2.46**	<0.976	**31.9**	<0.976	<0.976	<0.976	**15.0**	**67.5**	**0.0257 J B**	--	--
	SS-4	SS-4-0.5		0.5	08/24/21	mg/kg	<2.00	<1.00	**59.5**	<1.00	**0.954 J**	**4.75**	**4.48**	**6.45**	**2.11**	<1.00	**27.6**	<1.00	<1.00	<1.00	**14.3**	**58.1**	**0.0210 J B**	--	--
		SS-4-2.5		2.5	08/24/21	mg/kg	<2.11	<1.05	**60.1**	<1.05	**0.956 J**	**4.02**	**3.82**	**6.70**	**2.24**	<1.05	**25.5**	<1.05	<1.05	<1.05	**11.7**	**50.3**	**0.180 B**	--	--
		SS-4-5		5	08/24/21	mg/kg	<1.99	<0.995	**62.1**	<0.995	**1.08**	**4.24**	**4.47**	**8.00**	**2.27**	<0.995	**31.9**	<0.995	<0.995	<0.995	**13.2**	**66.0**	**0.0213 J B**	--	--
	SS-5	SS-105-0.5	X	0.5	08/24/21	mg/kg	<2.01	**0.357 J**	**50.9**	<1.01	**0.737 J**	**4.31**	**3.45**	**5.81**	**1.91**	<1.01	**21.4**	<1.01	<1.01	<1.01	**13.1**	**45.1**	**0.0267 J B**	--	--
		SS-5-0.5		0.5	08/24/21	mg/kg	<2.07	<1.04	**44.8**	<1.04	**0.531 J**	**3.58**	**2.72**	**4.08**	**1.49**	<1.04	**13.9**	<1.04	<1.04	<1.04	**10.0**	**28.7**	**0.0308 J B**	--	--
		SS-5-2.5		2.5	08/24/21	mg/kg	<1.97	<0.985	**48.8**	<0.985	**0.761 J**	**3.70**	**3.49**	**5.99**	**1.93**	<0.985	**23.0**	<0.985	<0.985	<0.985	**11.4**	**47.1**	**0.135 B**	--	--
		SS-5-5		5	08/24/21	mg/kg	<1.94	<0.971	**47.3**	<0.971	**0.539 J**	**3.78**	**2.80**	**4.60**	**1.65**	<0.971	**13.5**	<0.971	<0.971	<0.971	**10.5**	**30.0**	**0.0221 J B**	--	--
	SS-10	SS-10-0.5		0.5	08/23/21	mg/kg	<1.94	**1.23**	**39.8**	<0.971	<0.971	**8.24**	**3.92**	**11.8**	**5.80**	**0.345 J**	**11.7**	<0.971	<0.971	<0.971	**21.0**	**23.7**	**0.0607 J**	--	--
		SS-10-2.5		2.5	08/23/21	mg/kg	<1.95	**0.458 J**	**54.0**	<0.976	<0.976	**5.01**	**2.96**	**3.88**	**4.56**	<0.976	**2.59**	<0.976	<0.976	<0.976	**12.0**	**22.9**	**0.0552 J**	--	--
		SS-10-5		5	08/23/21	mg/kg	<2.11	**0.570 J**	**58.1**	<1.05	<1.05	**5.84**	**3.12**	**4.25**	**4.57**	<1.05	**2.74**	<1.05	<1.05	<1.05	**13.2**	**25.3**	**0.0394 J**	--	--
	SS-11	SS-11-0.5		0.5	08/25/21	mg/kg	<2.05	**0.348 J**	**52.2**	<1.03	<1.03	**3.87**	**2.89**	**3.44**	**3.63**	<1.03	**2.13**	<1.03	<1.03	<1.03	**10.3**	**19.7**	<0.0794	--	--
		SS-11-2.5		2.5	08/25/21	mg/kg	<1.92	**0.375 J**	**52.1**	<0.962	<0.962	**3.75**	**2.79**	**3.23**	**3.75**	<0.962	**2.07**	<0.962	<0.962	<0.962	**10.2**	**18.7**	<0.0877	--	--
		SS-111-5	X	5	08/25/21	mg/kg	<1.98	<0.990	**31.1**	<0.990	<0.990	**2.26**	**1.64**	**2.12**	**2.56**	<0.990	**1.21**	<0.990	<0.990	<0.990	**6.31**	**11.9**	<0.0862	--	--
		SS-11-5		5	08/25/21	mg/kg	<2.03	**0.415 J**	**57.8**	<1.02	<1.02	**4.73**	**4.29**	**5.65**	**4.24**	<1.02	**3.18**	<1.02	<1.02	<1.02	**11.8**	**22.8**	<0.0833	--	--
	SS-12	SS-12-0.5		0.5	08/24/21	mg/kg	<1.94	<0.971	**67.2**	<0.971	<0.971	**2.89**	**2.94**	**2.71**	**1.54**	<0.971	**2.39**	<0.971	<0.971	<0.971	**10.4**	**21.2**	**0.222 B**	--	--
		SS-12-2.5		2.5	08/24/21	mg/kg	<2.08	**0.456 J**	**70.6**	<1.04	**0.681 J**	**6.25**	**4.17**	**5.79**	**2.46**	<1.04	**15.5**	<1.04	<1.04	<1.04	**16.4**	**38.4**	**0.102 B**	--	--
		SS-12-5		5	08/24/21	mg/kg	<1.94	<0.971	**60.3**	**0.224 J**	**0.714 J**	**4.67**	**3.59**	**5.35**	**2.09**	<0.971	**16.6**	<0.971	<0.971	<0.971	**12.8**	**37.0**	**0.0371 J B**	--	--
24 (Sulfuric Acid Tank)	F24-1	F24-1-0.5		0.5	08/18/21	mg/kg	<2.08	**0.350 J**	**78.1**	<1.04	<1.04	**11.8**	**3.30**	**16.9**	**2.72**	<1.04	**6.19**	<1.04	<1.04	<1.04	**22.3**	**49.2**	<0.0862	--	--
		F24-101-0.5	X	0.5	08/18/21	mg/kg	<1.93	<0.966	**63.8**	<0.966	<0.966	**8.92**	**2.98**	**14.2**	**2.21**	<0.966	**5.97**	<0.966	<0.966	<0.966	**15.7**	**45.1**	**0.0136 J**	--	--
		F24-1-2.5		2.5	08/18/21	mg/kg	<2.01	**0.526 J**	**98.5**	**0.329 J**	<1.01	**11.2**	**5.39**	**9.69**	**2.99**	<1.01	**11.1**	<1.01	<1.01	<1.01	**22.9**	**72.8**	<0.0877	--	--
	F24-2	F24-2-0.5		0.5	08/25/21	mg/kg	<2.01	**0.504 J**	**37.4**	<1.01	<1.01	**4.72**	**2.24**	**4.29**	**3.13**	<1.01	**3.54**	<1.01	<1.01	<1.01	**8.92**	**18.4**	<0.0847	--	--
		F24-2-2.5		2.5	08/25/21	mg/kg	<1.90	<0.952	**102**	<0.952	<0.952	**4.30**	**3.30**	**4.44**	**4.74**	<0.952	**5.13**	<0.952	<0.952	<0.952	**14.0**	**29.7**	<0.0820	--	--

Table 5
RFI Soil Sample Analytical Results - Metals and pH

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 6020/7471A																EPA Method 9045C	
							Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury	Laboratory pH (s.u.)	Temperature (Deg C)
EPA RSL Industrial (May 2023)							470	3	220000	2300	100		350	47000	800	5800	22000	5800	5800	12	5800	350000	46	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							--	0.36	--	6900	--	--	--	--	--	--	64000	--	--	--	--	--	--	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							--	4.2	--	230	--	--	--	--	500	--	11000	--	--	--	--	--	4.4	--	--
DTSC Southern California Ambient Arsenic Screening Level (1)							--	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27 (Acid Caustic Tanks Area)	FS-3	FS-3-0.5		0.5	08/25/21	mg/kg	<1.99	<0.995	**97.5**	<0.995	<0.995	**3.33**	**3.20**	**3.84**	**3.04**	<0.995	**3.69**	<0.995	<0.995	<0.995	**13.3**	**28.1**	<0.0877	**10.3**	**23.0**
		FS-103-2.5	X	2.5	08/25/21	mg/kg	<2.06	**0.606 J**	**42.4**	<1.03	<1.03	**5.73**	**2.71**	**5.13**	**3.58**	<1.03	**4.18**	<1.03	<1.03	<1.03	**10.2**	**20.5**	<0.0794	**9.7**	**22.8**
		FS-3-2.5		2.5	08/25/21	mg/kg	<2.11	<1.05	**97.4**	<1.05	<1.05	**3.50**	**3.14**	**3.90**	**3.28**	<1.05	**4.08**	<1.05	<1.05	<1.05	**13.7**	**27.8**	<0.0847	**10.1**	**22.8**
35 (Sodium Hypochlorite Tank)	F35-1	F35-1-0.5		0.5	08/18/21	mg/kg	<1.90	<0.952	**84.0**	<0.952	<0.952	**3.65**	**2.87**	**3.26**	**1.56**	<0.952	**2.59**	<0.952	<0.952	<0.952	**11.4**	**26.5**	<0.0794	**7.3**	**23.2**
		F35-1-2.5		2.5	08/18/21	mg/kg	<2.08	**0.538 J**	**88.3**	**0.245 J**	<1.04	**7.51**	**3.70**	**4.45**	**1.97**	<1.04	**3.90**	<1.04	<1.04	<1.04	**8.59**	**28.9**	<0.0847	**7.4**	**23.2**
	F35-2	F35-2-0.5		0.5	08/18/21	mg/kg	<1.99	**0.607 J**	**79.0**	<0.995	<0.995	**8.34**	**3.70**	**6.96**	**3.78**	<0.995	**4.96**	<0.995	<0.995	<0.995	**14.6**	**38.3**	<0.0820	--	--
		F35-2-2.5		2.5	08/18/21	mg/kg	<1.93	<0.966	**70.6**	<0.966	<0.966	**8.84**	**4.07**	**7.17**	**2.28**	<0.966	**5.17**	<0.966	<0.966	<0.966	**15.6**	**37.8**	<0.0794	--	--
	F35-3	F35-3-0.5		0.5	08/23/21	mg/kg	<2.08	**0.615 J**	**68.4**	<1.04	<1.04	**2.01 J**	**0.812 J**	**3.25**	**2.58**	<1.04	**0.930 J**	<1.04	<1.04	<1.04	**6.08**	<5.21	**0.0561 J**	--	--
		F35-3-2.5		2.5	08/23/21	mg/kg	<1.93	**0.761 J**	**47.5**	<0.966	<0.966	**7.26**	**2.30**	**7.03**	**1.86**	**0.323 J**	**3.55**	<0.966	<0.966	<0.966	**15.1**	**18.5**	**0.0369 J**	--	--
	MS-23C	MS-23C-0.5		0.5	01/03/22	mg/kg	<1.01	**4.17**	**83.7 B**	**0.268 J**	<0.503	**18.4**	**4.58**	**16.1**	**31.3**	**1.45**	**14.6**	**0.473 J**	<0.503	<0.503	**36.9**	**44.8**	<0.0806	**11.6**	**23.2**
		MS-23C-2.5		2.5	01/03/22	mg/kg	<0.990	**1.52**	**143 B**	**0.203 J**	<0.495	**10.9**	**5.01**	**9.43**	**4.48**	<0.990	**8.70**	**0.449 J**	<0.495	<0.495	**31.4**	**35.5**	<0.0847	**9.3**	**23.3**
36 (Former Haz Waste Area)	F36-1	F36-1-0.5		0.5	08/24/21	mg/kg	<1.97	<0.985	**64.3**	<0.985	<0.985	**7.20**	**3.47**	**6.86**	**4.61**	<0.985	**11.6**	<0.985	<0.985	<0.985	**19.8**	**29.0**	**0.0692 J**	--	--
		F36-1-2.5		2.5	08/24/21	mg/kg	<1.94	**0.668 J**	**87.5**	**0.267 J**	<0.971	**6.91**	**4.40**	**7.34**	**3.74**	<0.971	**4.04**	<0.971	<0.971	<0.971	**17.2**	**25.8**	**0.0368 J**	--	--
	F36-2	F36-2-0.5		0.5	08/24/21	mg/kg	<1.95	**0.531 J**	**75.1**	**0.216 J**	<0.976	**5.55**	**3.69**	**5.33**	**2.89**	<0.976	**3.32**	<0.976	<0.976	<0.976	**13.9**	**22.5**	**0.0353 J**	--	--
		F36-2-2.5		2.5	08/24/21	mg/kg	<1.93	**0.593 J**	**74.0**	**0.215 J**	<0.966	**5.50**	**3.46**	**4.10**	**2.67**	<0.966	**3.33**	<0.966	<0.966	<0.966	**13.9**	**20.7**	**0.0340 J**	--	--
	F36-3	F36-3-0.5		0.5	08/25/21	mg/kg	<1.93	<0.966	**114**	<0.966	<0.966	**5.08**	**3.36**	**4.21**	**3.72**	<0.966	**4.30**	<0.966	<0.966	<0.966	**14.2**	**29.3**	<0.0847	--	--
		F36-3-2.5		2.5	08/25/21	mg/kg	<2.08	<1.04	**98.2**	<1.04	<1.04	**3.11**	**3.05**	**3.90**	**9.28**	<1.04	**3.80**	<1.04	<1.04	<1.04	**12.7**	**26.7**	<0.0794	--	--
Equipment Rinsate Blanks																									
--		EB-A-082321		--	08/23/21	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.000500	--	--
--	--	EB-B-082321		--	08/23/21	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.000271 J**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.00325 J**	<0.000500	--	--
--	--	EB-A-082421		--	08/24/21	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.000500	--	--
--	--	EB-A-082521		--	08/25/21	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.00660**	<0.000500	--	--
--	--	EB-B-082521		--	08/25/21	mg/L	<0.00100	<0.00100	**0.000543 J**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.00800**	<0.000500	--	--
--	--	EB-B-083021		--	08/30/21	mg/L	--	--	--	--	--	--	--	--	<0.00100	--	--	--	--	--	--	--	--	--	--

NOTES:

	Concentration exceeds a regulatory screening level
1.23	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
<1.90	Denotes analyte not detected above the posted Reporting Limit (RL)
J	Concentration is below the RL but above the MDL so the result represents an estimated value
B	Analyte was detected in the method blank and sample
Deg C	Degrees Centigrade
--	Not analyzed or No Published Value
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
s.u.	Standard units
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated May 2022)
(1)	Selected screening level for arsenic in soil (DTSC Human Health Risk Assessment Note Number 11)

Table 6
RFI Soil Sample Analytical Results - Polychlorinated Biphenyls (PCBs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
							Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
EPA RSL Industrial (May 2023)							27	0.83	0.72	0.95	0.94	0.97	0.99	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							29	--	--	--	--	8.4	--	--	--
6 (Unit 5 Peaker)	PT1-1	PT1-1-0		0	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		PT1-1-0.5		0.5	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.051**	**0.032 J**	<0.050	<0.050
		PT1-101-1	X	1	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.15**	**0.078**	<0.050	<0.050
		PT1-1-1		1	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.062**	**0.036 J**	<0.050	<0.050
	PT1-2	PT1-2-0		0	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		PT1-2-0.5		0.5	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.029 J**	<0.050	<0.050
		PT1-2-1		1	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	PT1-3	PT1-3-0		0	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**1.4**	**0.50**	<0.049	<0.049
		PT1-3-0.5		0.5	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**1.8**	**0.65**	<0.050	<0.050
		PT1-3-1		1	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**6.9**	**1.5**	<0.050	<0.050
		PT1-3-2.5		2.5	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.067**	**0.035 J**	<0.050	<0.050
	PT1-3E	PTI-3E-0		0	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.23**	<0.050	<0.050	<0.050
		PTI-3E-0.5		0.5	09/10/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.11**	<0.049	<0.049	<0.049
		PTI-3E-1		1	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	PT1-3S	PTI-3S-0		0	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.059**	<0.050	<0.050	<0.050
		PTI-3S-0.5		0.5	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.029 J**	<0.050	<0.050	<0.050
		PTI-3S-1		1	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.048 J**	<0.050	<0.050	<0.050
	PT1-4	PT1-4-0		0	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.21**	**0.17**	<0.049	<0.049
		PT1-4-0.5		0.5	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.12**	<0.049	<0.049
		PT1-104-1	X	1	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.33**	**0.19**	<0.049	<0.049
		PT1-4-1		1	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.93**	**0.33**	<0.050	<0.050
		PT1-4-2.5		2.5	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.030 J**	<0.050	<0.050	<0.050
	PT1-4E	PTI-4E-0		0	09/10/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.081**	<0.049	<0.049	<0.049
		PTI-4E-0.5		0.5	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.46**	<0.050	<0.050	<0.050
		PTI-4E-1		1	09/10/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.18**	<0.049	<0.049	<0.049
	PT1-4N	PTI-4N-0		0	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.031 J**	<0.050	<0.050	<0.050
		PTI-4N-0.5		0.5	09/10/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050	<0.050
		PTI-4N-1		1	09/10/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	PT2-1	PT2-1-0		0	08/23/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		PT2-1-0.5		0.5	08/23/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		PT2-1-1		1	08/23/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.075**	<0.049	<0.049	<0.049
	PT2-2	PT2-2-0		0	08/23/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.069**	<0.050	<0.050	<0.050
		PT2-2-0.5		0.5	08/23/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.035 J**	<0.050	<0.050	<0.050
		PT2-2-1		1	08/23/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Table 6
RFI Soil Sample Analytical Results - Polychlorinated Biphenyls (PCBs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
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EPA RSL Industrial (May 2023)							27	0.83	0.72	0.95	0.94	0.97	0.99	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							29	--	--	--	--	8.4	--	--	--
6 (Unit 5 Peaker)	PT2-3	PT2-3-0		0	08/23/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.042 J**	<0.050	<0.050	<0.050
		PT2-103-0.5	X	0.5	08/23/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.10**	<0.049	<0.049	<0.049
		PT2-3-0.5		0.5	08/23/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.070**	<0.049	<0.049	<0.049
		PT2-3-1		1	08/23/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.032 J**	<0.049	<0.049	<0.049
	PT2-4	PT2-4-0		0	08/23/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.058**	<0.050	<0.050	<0.050
		PT2-4-0.5		0.5	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.029 J**	<0.050	<0.050	<0.050
		PT2-4-1		1	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.032 J**	<0.049	<0.049	<0.049
11 (Chadwick Channel)	F11-1	F11-1-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	**0.24**	<0.050	<0.050	<0.050	<0.050
		F11-101-0.5	X	0.5	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	**0.18**	<0.049	<0.049	<0.049	<0.049
		F11-1-2.5		2.5	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	**0.046 J**	<0.049	<0.049	<0.049	<0.049
	F11-2A	F11-2A-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	**0.15**	<0.050	<0.050	<0.050	<0.050
		F11-2A-2.5		2.5	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	F11-2B	F11-2B-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F11-2B-2.5		2.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F11-3	F11-3-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	**0.13**	<0.050	<0.050	<0.050	<0.050
		F11-3-2.5		2.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F11-4	F11-4-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F11-4-2.5		2.5	08/31/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	F11-5	F11-105-0.5	X	0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F11-5-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F11-5-2.5		2.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F11-6	F11-6-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F11-6-2.5		2.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F11-7	F11-7-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.073**	<0.050	<0.050
		F11-7-2.5		2.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.10**	<0.050	<0.050
	F11-8	F11-8-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.042 J**
		F11-8-2.5		2.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F11-9	F11-9-0.5		0.5	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	F11-10	F11-10-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	**0.050**	<0.050	<0.050	<0.050	<0.050
		F11-110-0.5	X	0.5	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	**0.055**	<0.049	<0.049	<0.049	<0.049
		F11-10-2.5		2.5	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	**0.055**	<0.049	<0.049	<0.049	<0.049
14 (Haz Waste Accumulation Area)	F14-1	F14-1-0		0	08/25/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		F14-1-0.5		0.5	08/25/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.026 J**	<0.049	<0.049	<0.049
		F14-101-1	X	1	08/25/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.17**	**0.063**	<0.050	<0.050
		F14-1-1		1	08/25/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.12**	**0.055**	<0.050	<0.050

Table 6
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AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
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DTSC-SLs Commercial/Industrial - Cancer (May 2022)							17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							29	--	--	--	--	8.4	--	--	--
21 (Cooling Tower Makeup Water Pond)	F21-T1-1	F21-T1-1-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F21-T1-1-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F21-T1-1-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F21-T1-2	F21-T1-2-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.036 J**	<0.050	<0.050
		F21-T1-2-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F21-T1-102-1	X	1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F21-T1-2-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050
	F21-T2-1	F21-T2-1-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F21-T2-1-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F21-T2-1-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F21-T2-2	F21-T2-2-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.049 J**	<0.050	<0.050
		F21-T2-2-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F21-T2-2-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
25 (Units 3 & 4 Transformers)	T3-4-1	T3-4-1-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.21**	**0.15**	<0.050	<0.050
		T3-4-1-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-1-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.062**	**0.076**	<0.050	<0.050
	T3-4-2	T3-4-2-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**1.7**	<0.050	<0.050	<0.050
		T3-4-2-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.10**	**0.13**	<0.050	<0.050
		T3-4-102-1	X	1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.24**	<0.050	<0.050	<0.050
		T3-4-2-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.61**	<0.050	<0.050	<0.050
		T3-4-2-2.5		2.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-2NE	T3-4-2NE-0		0	09/16/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.043 J**	<0.049	<0.049
		T3-4-2NE-1		1	09/16/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-2NW	T3-4-2NW-0		0	09/16/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T3-4-2NW-1		1	09/16/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-3	T3-4-3-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.038 J**	<0.050	<0.050
		T3-4-3-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.038 J**	<0.050	<0.050
		T3-4-3-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.029 J**	<0.050	<0.050
	T3-4-4	T3-4-4-0		0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-4-0.5		0.5	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050
		T3-4-4-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-5	T3-4-105-0	X	0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.052**	<0.050	<0.050
		T3-4-5-0		0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.12**	<0.050	<0.050
		T3-4-5-0.5		0.5	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.064**	<0.050	<0.050
		T3-4-5-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.048 J**	<0.050	<0.050

Table 6
RFI Soil Sample Analytical Results - Polychlorinated Biphenyls (PCBs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
							Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
EPA RSL Industrial (May 2023)							27	0.83	0.72	0.95	0.94	0.97	0.99	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							29	--	--	--	--	8.4	--	--	--
25 (Units 3 & 4 Transformers)	T3-4-6	T3-4-6-0		0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-6-0.5		0.5	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-6-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-7	T3-4-7-0		0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.17**	<0.050	<0.050
		T3-4-7-0.5		0.5	09/02/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T3-4-7-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-8	T3-4-8-0		0	09/02/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.069**	<0.049	<0.049
		T3-4-8-0.5		0.5	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.11**	<0.050	<0.050
		T3-4-108-1	X	1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.087**	<0.050	<0.050
		T3-4-8-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.047 J**	<0.050	<0.050
	T3-4-9	T3-4-9-0		0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-9-0.5		0.5	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-9-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-10	T3-4-10-0		0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-10-0.5		0.5	09/02/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.23**
		T3-4-10-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050
	T3-4-11	T3-4-11-0		0	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-11-0.5		0.5	09/02/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T3-4-11-1		1	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-12	T3-4-112-0	X	0	09/02/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T3-4-12-0		0	09/02/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T3-4-12-0.5		0.5	09/02/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-12-1		1	09/02/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	T3-4-13	T3-4-13-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050	<0.050
		T3-4-13-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-13-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-14	T3-4-14-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.062**	<0.050	<0.050	<0.050
		T3-4-14-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-114-1	X	1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-14-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T3-4-15	T3-4-15-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.098**	**0.085**	<0.050	<0.050
		T3-4-15-0.5		0.5	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.14**	<0.050	<0.050
		T3-4-15-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	**0.051**	**0.089**	<0.050	<0.050
	T3-4-16	T3-4-16-0		0	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T3-4-16-1		1	09/01/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Table 6
RFI Soil Sample Analytical Results - Polychlorinated Biphenyls (PCBs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
							Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
EPA RSL Industrial (May 2023)							27	0.83	0.72	0.95	0.94	0.97	0.99	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							29	--	--	--	--	8.4	--	--	--
26 (Units 1 & 2 Transformers)	T1-2-1	T1-2-1-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050
		T1-2-101-0	X	0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T1-2-1-0.5		0.5	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T1-2-1-1		1	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	T1-2-2	T1-2-2-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.050**	<0.050	<0.050
		T1-2-2-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.050**	<0.050	<0.050
		T1-2-2-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.048 J**	<0.050	<0.050
	T1-2-3	T1-2-3-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-3-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-3-1		1	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	T1-2-4	T1-2-4-0		0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.084**	<0.049	<0.049
		T1-2-4-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-104-1	X	1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-4-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.026 J**	<0.050	<0.050
	T1-2-5	T1-2-5-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-5-0.5		0.5	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T1-2-5-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.032 J**	<0.050	<0.050
	T1-2-6	T1-2-106-0	X	0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-6-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.038 J**	<0.050	<0.050
		T1-2-6-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-6-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-7	T1-2-7-0		0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.044 J**	<0.049	<0.049
		T1-2-7-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-7-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-8	T1-2-8-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-8-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-108-1	X	1	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T1-2-8-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-9	T1-2-9-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.046 J**	<0.050	<0.050
		T1-2-9-0.5		0.5	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T1-2-9-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.030 J**	<0.050	<0.050
	T1-2-10	T1-2-10-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.16**	<0.050	<0.050
		T1-2-10-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-10-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-11	T1-2-11-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.045 J**	<0.050	<0.050
		T1-2-111-0	X	0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T1-2-11-0.5		0.5	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		T1-2-11-1		1	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049

Table 6
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EPA RSL Industrial (May 2023)							27	0.83	0.72	0.95	0.94	0.97	0.99	--	--
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DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							29	--	--	--	--	8.4	--	--	--
26 (Units 1 & 2 Transformers)	T1-2-12	T1-2-12-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-12-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-12-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-13	T1-2-13-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.056**	<0.050	<0.050
		T1-2-13-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.054**	<0.050	<0.050
		T1-2-113-1	X	1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.045 J**	<0.050	<0.050
		T1-2-13-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.029 J**	<0.050	<0.050
	T1-2-14	T1-2-14-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.081**	<0.050	<0.050
		T1-2-14-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.070**	<0.050	<0.050
		T1-2-14-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-15	T1-2-15-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.031 J**	<0.050	<0.050
		T1-2-15-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.038 J**	<0.050	<0.050
		T1-2-15-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.065**	<0.050	<0.050
	T1-2-16	T1-2-116-0	X	0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.063**	<0.050	<0.050
		T1-2-16-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.058**	<0.050	<0.050
		T1-2-16-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.11**	<0.050	<0.050
		T1-2-16-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.063**	<0.050	<0.050
	T1-2-17	T1-2-17-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.085**	<0.050	<0.050
		T1-2-17-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.026 J**	<0.050	<0.050
		T1-2-17-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.053**	<0.050	<0.050
	T1-2-18	T1-2-18-0		0	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.053**	<0.050	<0.050
		T1-2-18-0.5		0.5	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-118-1	X	1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.033 J**	<0.050	<0.050
		T1-2-18-1		1	08/31/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-19	T1-2-19-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.21**	<0.050	<0.050
		T1-2-19-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.12**	<0.050	<0.050
		T1-2-19-1		1	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.19**	<0.049	<0.049
	T1-2-20	T1-2-20-0		0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.17**	<0.049	<0.049
		T1-2-20-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.052**	<0.050	<0.050
		T1-2-20-1		1	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.067**	<0.049	<0.049
	T1-2-21	T1-2-121-0	X	0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.025 J**	<0.049	<0.049
		T1-2-21-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.029 J**	<0.050	<0.050
		T1-2-21-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-21-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.045 J**	<0.050	<0.050
	T1-2-22	T1-2-22-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050
		T1-2-22-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.062**	<0.050	<0.050
		T1-2-22-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-23	T1-2-23-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-23-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-23-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Table 6
RFI Soil Sample Analytical Results - Polychlorinated Biphenyls (PCBs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
							Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
EPA RSL Industrial (May 2023)							27	0.83	0.72	0.95	0.94	0.97	0.99	--	--
DTSC-SLs Commercial/Industrial - Cancer (May 2022)							17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)							29	--	--	--	--	8.4	--	--	--
26 (Units 1 & 2 Transformers)	T1-2-24	T1-2-24-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.043 J**	<0.050	<0.050
		T1-2-24-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.033 J**	<0.050	<0.050
		T1-2-24-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-25	T1-2-25-0		0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.081**	<0.049	<0.049
		T1-2-25-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.090**	<0.050	<0.050
		T1-2-25-1		1	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.071**	<0.049	<0.049
	T1-2-26	T1-2-126-0	X	0	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.057**	<0.049	<0.049
		T1-2-26-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.071**	<0.050	<0.050
		T1-2-26-0.5		0.5	08/30/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.060**	<0.049	<0.049
		T1-2-26-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.067**	<0.050	<0.050
	T1-2-27	T1-2-27-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.027 J**	<0.050	<0.050
		T1-2-27-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.029 J**	<0.050	<0.050
		T1-2-27-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.031 J**	<0.050	<0.050
	T1-2-28	T1-2-28-0		0	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-28-0.5		0.5	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-128-1	X	1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-28-1		1	08/30/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-29	T1-2-29-0		0	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-29-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-29-1		1	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-30	T1-2-30-0		0	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-30-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-30-1		1	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	T1-2-31	T1-2-131-0	X	0	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-31-0		0	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-31-0.5		0.5	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		T1-2-31-1		1	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
	T1-2-32	T1-2-32-0		0	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.056**	<0.050	<0.050
		T1-2-32-0.5		0.5	08/26/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.035 J**	<0.049	<0.049
		T1-2-32-1		1	08/26/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.055**	<0.050	<0.050
36 (Former Haz Waste Area)	F36-1	F36-1-0		0	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	**0.031 J**	**0.038 J**	<0.049	<0.049
		F36-1-0.5		0.5	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		F36-101-1	X	1	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F36-1-1		1	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F36-2	F36-2-0		0	08/24/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	**0.031 J**	<0.049	<0.049
		F36-2-0.5		0.5	08/24/21	mg/kg	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
		F36-2-1		1	08/24/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	F36-3	F36-3-0		0	08/25/21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
		F36-3-0.5		0.5	08/25/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
		F36-3-1		1	08/25/21	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049

Table 6
RFI Soil Sample Analytical Results - Polychlorinated Biphenyls (PCBs)

AOI Number	Location ID	Sample ID	Dup	Depth (feet)	Date	Units	EPA Method 8082								
							Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
				EPA RSL Industrial (May 2023)			27	0.83	0.72	0.95	0.94	0.97	0.99	--	--
				DTSC-SLs Commercial/Industrial - Cancer (May 2022)			17	0.53	0.49	0.58	0.58	0.59	0.6	--	--
				DTSC-SLs Commercial/Industrial - Non-Cancer (May 2022)			29	--	--	--	--	8.4	--	--	--
Equipment Rinsate Blanks															
--	--	EB-A-082321		--	08/23/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A-082421		--	08/24/21	µg/L	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63
--	--	EB-A-082521		--	08/25/21	µg/L	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49
--	--	EB-A-083021		--	08/30/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-B-083021		--	08/30/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A-083121		--	08/31/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-B-083121		--	08/31/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A1-090121		--	09/01/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A2-090121		--	09/01/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-B-090121		--	09/01/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A-090221		--	09/02/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A2-090221		--	09/02/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-B-090221		--	09/02/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A-091021		--	09/10/21	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
--	--	EB-A-091621		--	09/16/21	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

NOTES:

	Concentration exceeds a regulatory screening level
792	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
<0.050	Denotes analyte not detected above the posted Reporting Limit (RL)
J	Concentration is below the RL but above the MDL so the result represents an estimated value
--	Not analyzed or No Published Value
mg/kg	Milligrams per kilogram
µg/L	Micrograms per liter
Dup	Field duplicate samples are identified in this column with an "X"
EPA RSL	United States Environmental Protection Agency (EPA) Regional Screening Levels (RSL) for commercial/industrial land use (Updated May 2023)
DTSC-SLs	Department of Toxic Substances Control (DTSC)-modified screening levels for commercial/industrial land use (Updated June 2020)

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2- Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane (Freon-12)	1,1-Dichloroethane (1,1-DCA)	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Freon-113	Hexachlorobutadiene
Commercial/Industrial Screening Levels for Comparison																																						
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						840	--	--	--	1.8E+06	3.6E+06	3.6E+06	--	--	--	700,000	700,000	1,160	--	--	--	--	--	--	--	--	--	--	620,000	70,000	700,000	--	700,000	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3,200	520,000	660	22,000	--	--	--	4,000	440,000	1,060	--	--	--	4	40	36,000	1.8E+06	--	2,200	880,000	15,400	940	1.8E+06	--	360,000	6,600	--	--	--	6,200	--	9,800	4.4E+07	1,120
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						420	--	--	--	880,000	1.8E+06	1.8E+06	--	--	--	350,000	350,000	580	--	--	--	--	--	--	--	--	--	--	310,000	35,000	350,000	--	350,000	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1,600	260,000	330	11,000	--	--	--	2,000	220,000	530	--	--	--	2	20	18,000	880,000	--	1,100	440,000	7,700	470	880,000	--	180,000	3,300	--	--	--	3,100	--	4,900	2.2E+07	560
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						14	--	--	--	29,333	60,000	60,000	--	--	--	11,667	11,667	19	--	--	--	--	--	--	--	--	--	--	10,333	1,167	11,667	--	11,667	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						53	8,667	11	367	--	--	--	67	7,333	18	--	--	--	0.067	0.67	600	29,333	--	37	14,667	257	16	29,333	--	6,000	110	--	--	--	103	--	163	733,333	19
AOI 1 - Distillate Tank for Unit 5 Peaker																																						
DT-1	DT-1-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	DT-1-5-RERUN		5	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	DT-1-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
DT-2	DT-2-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	DT-2-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
DT-3	DT-3-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**7.2**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	DT-3-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
DT-4	DT-4-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	DT-4-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
AOI 5 - Fueling Station																																						
F5-1	F5-1-5		5	8/31/21	µg/m^3	**0.7**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	F5-1-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**4.2**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
F5-2	F5-2-5		5	8/31/21	µg/m^3	**5.5**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**35.1**	<5.0	<4.0
	F5-2-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
AOI 6 - Unit 5 Peaker																																						
P-1	P-1-5		5	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-1-10		10	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**5.0**	<5.0	<4.0
P-1B	P-1B-20		20	9/3/21	µg/m^3	**4.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**4.4**	<5.0	<4.0
	P-1B-40		40	9/3/21	µg/m^3	**2.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.9**	<5.0	<4.0
P-2	P-2-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-2-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-2-10-REP	X	10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
P-3	P-3-5		5	9/3/21	µg/m^3	**1.3**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-3-10		10	8/31/21	µg/m^3	**1.1**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
P-4	P-4-5		5	8/31/21	µg/m^3	**0.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-4-10		10	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
P-5	P-5-5		5	9/3/21	µg/m^3	**1.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**4.6**	<5.0	<4.0
	P-5-20		20	9/3/21	µg/m^3	**6.1**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**13.1**	<5.0	<4.0
	P-5-20-REP	X	20	9/3/21	µg/m^3	**6.2**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**2.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**13.4**	<5.0	<4.0
P-6	P-6-5		5	9/3/21	µg/m^3	**16.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**12.7**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**22.5**	<5.0	<4.0
	P-6-20		20	9/3/21	µg/m^3	**1.0**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**8.8**	<5.0	<4.0
P-7	P-7-5		5	9/3/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
P-8	P-8-5		5	9/17/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**4.1**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-8-20		20	9/17/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**7.4**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
P-9	P-9-5		5	9/17/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-9-5R		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	P-9-20		20	9/17/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**4.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
AOI 14 - Hazardous Waste Accumulation Area																																						
F14-1	F14-1-5		5	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	F14-1-10		10	9/3/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
AOI 15 - Generating 1 & 2																																						
F15-1	F15-1-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2- Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane (Freon-12)	1,1-Dichloroethane (1,1-DCA)	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Freon-113	Hexachlorobutadiene
Commercial/Industrial Screening Levels for Comparison																																						
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						840	--	--	--	1.8E+06	3.6E+06	3.6E+06	--	--	--	700,000	700,000	1,160	--	--	--	--	--	--	--	--	620,000	70,000	700,000	--	700,000	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3,200	520,000	660	22,000	--	--	--	4,000	440,000	1,060	--	--	--	4	40	36,000	1.8E+06	--	2,200	880,000	15,400	940	1.8E+06	--	360,000	6,600	--	--	--	6,200	--	9,800	4.4E+07	1,120
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						420	--	--	--	880,000	1.8E+06	1.8E+06	--	--	--	350,000	350,000	580	--	--	--	--	--	--	--	--	310,000	35,000	350,000	--	350,000	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1,600	260,000	330	11,000	--	--	--	2,000	220,000	530	--	--	--	2	20	18,000	880,000	--	1,100	440,000	7,700	470	880,000	--	180,000	3,300	--	--	--	3,100	--	4,900	2.2E+07	560
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						14	--	--	--	29,333	60,000	60,000	--	--	--	11,667	11,667	19	--	--	--	--	--	--	--	--	10,333	1,167	11,667	--	11,667	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						53	8,667	11	367	--	--	--	67	7,333	18	--	--	--	0.067	0.67	600	29,333	--	37	14,667	257	16	29,333	--	6,000	110	--	--	--	103	--	163	733,333	19
AOI 17 - Maintenance Shop																																						
SS-1B	SS-1B-5		5	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**7.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.2**	**30.0**	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-1B-10		10	8/27/21	µg/m^3	**0.7**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**12.6**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.8**	**163**	<1.0	**49.9**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**5.6**	<5.0	<4.0
	SS-1B-20		20	9/1/21	µg/m^3	**0.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**9.4**	<2.0	**92.8**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**13.9**	**1370**	<1.0	**466**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**5.9**	<4.0
MS-10 & MS-10R	MS-10-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**3.2**	<2.0	**19.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.7**	**12.2**	<1.0	**14.1**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-10R-5		5	4/4/22	µg/m^3	**1.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**3.3**	<2.0	**44.8**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**14.0**	**15.3**	<1.0	**18.5**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.7**	<5.0	<4.0
	MS-10-10		10	8/31/21	µg/m^3	**0.7**	<2.0	**4.5**	<2.0	<5.0	<5.0	<5.0	**10.4**	<1.0	**71.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**8.0**	**61.0**	<1.0	**105**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-10-20		20	9/1/21	µg/m^3	<0.5	<2.0	**13.5**	<2.0	<5.0	<5.0	<5.0	**22.8**	<2.0	**185**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**13.1**	**180**	**8.3**	**285**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**6.5**	<4.0
	MS-10R-20		20	4/4/22	µg/m^3	**1.8**	<2.0	**11.4**	<2.0	<5.0	<5.0	<5.0	**27.7**	<2.0	**175**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**20.9**	**154**	**10.9**	**232**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.8**	<5.0	<4.0
MS-11	MS-11-5		5	8/31/21	µg/m^3	**2.3**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1.5**	<2.0	**11.9**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.0**	**7.6**	<1.0	**9.3**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-11-10		10	8/31/21	µg/m^3	**1.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**8.6**	<2.0	**80.4**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**8.5**	**51.4**	<1.0	**74.8**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-11-20		20	9/1/21	µg/m^3	**1.4**	<2.0	**3.8**	<2.0	<5.0	<5.0	<5.0	**39.8**	<2.0	**362**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**17.4**	**295**	**17.3**	**435**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**7.8**	<4.0
MS-12	MS-12-5		5	8/31/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**3.8**	<2.0	**60.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.8**	<1.0	**21.2**	**40.2**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-12-10		10	8/31/21	µg/m^3	**0.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**12.1**	<2.0	**136**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**11.2**	**54.7**	<1.0	**120**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**2.7**	<5.0	<4.0
	MS-12-20		20	9/1/21	µg/m^3	**0.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**46.8**	<2.0	**510**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**21.6**	**313**	**9.0**	**517**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**7.8**	<4.0
MS-13 MS-13B & MS-13R	MS-13-5		5	8/31/21	µg/m^3	**0.7**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**7.6**	<2.0	**68.2**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**10.6**	**11.5**	<1.0	**46.5**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-13R-5		5	4/4/22	µg/m^3	**16.2**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**7.1**	<2.0	**66.4**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**21.1**	**16.4**	<1.0	**55.5**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**23.6**	<5.0	<4.0
	MS-13-10		10	8/31/21	µg/m^3	**5.0**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**9.8**	<2.0	**114**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**11.0**	**19.0**	<1.0	**66.2**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**29.0**	<5.0	<4.0
	MS-13-10-REP	X	10	8/31/21	µg/m^3	**3.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**10.2**	<2.0	**107**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**11.8**	**19.2**	<1.0	**61.6**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**25.6**	<5.0	<4.0
	MS-13-20		20	9/1/21	µg/m^3	**1.2**	<2.0	**2.5**	<2.0	<5.0	<5.0	<5.0	**51.5**	<2.0	**640**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**26.2**	**255**	**3.4**	**501**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.0**	<5.0	<4.0
	MS-13R-20		20	4/4/22	µg/m^3	**4.2**	<2.0	**3.8**	<2.0	<5.0	<5.0	<5.0	**41.7**	<2.0	**454**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**38.4**	**219**	**3.7**	**385**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**4.6**	<5.0	<4.0
	MS-13B-35		35	9/3/21	µg/m^3	**2.2**	<2.0	**2.7**	<2.0	<5.0	<5.0	<5.0	**51.2**	<2.0	**632**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**21.6**	**277**	**8.9**	**494**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**2.1**	<5.0	<4.0
	MS-13B-50		50	9/3/21	µg/m^3	**3.8**	<2.0	**2.2**	<2.0	<5.0	<5.0	<5.0	**65.6**	<2.0	**668**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**26.1**	**343**	**23.4**	**555**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**2.6**	<5.0	<4.0
	MS-13R-46		46	4/4/22	µg/m^3	**2.3**	<2.0	**3.6**	<2.0	<5.0	<5.0	<5.0	**100**	<2.0	**732**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**54.8**	**406**	**23.2**	**665**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**5.7**	<4.0
MS-14	MS-14-5		5	8/31/21	µg/m^3	**1.1**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**9.4**	<2.0	**160**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**13.1**	**55.6**	<1.0	**127**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-14-10		10	8/31/21	µg/m^3	**0.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**11.4**	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**14.7**	**74.4**	<1.0	**157**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-14-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MS-15	MS-15-5		5	8/31/21	µg/m^3	**1.1**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**3.6**	<2.0	**60.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**9.1**	**31.2**	<1.0	**81.4**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-15-10		10	8/31/21	µg/m^3	**2.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**4.5**	<2.0	**76.6**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**9.9**	**52.7**	<1.0	**111**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**11.4**	<5.0	<4.0
	MS-15-20		20	9/1/21	µg/m^3	**0.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**17.2**	<2.0	**294**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**25.1**	**318**	<1.0	**514**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**8.0**	<4.0
MS-16	MS-16-5		5	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**17.9**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	**107**	<1.0	**85.5**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-16-10		10	8/27/21	µg/m^3	**2.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	**3.4**	**41.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**13.0**	**284**	<1.0	**200**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**8.0**	<5.0	<4.0
	MS-16-20		20	9/1/21	µg/m^3	**0.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**12.5**	<2.0	**156**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**18.5**	**1050**	<1.0	**589**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-16-20-REP	X	20	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**11.2**	<2.0	**157**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**18.6**	**1060**	<1.0	**595**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-17 MS-17B & MS-17R	MS-17-5		5	8/27/21	µg/m^3	**0.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**13.6**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.9**	**1950**	<1.0	**125**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**2.9**	<5.0	<4.0
	MS-17R-5		5	4/4/22	µg/m^3	**0.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**39.3**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**15.0**	**1120**	<1.0	**98.3**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-17-10		10	8/27/21	µg/m^3	**2.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**22.0**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**8.0**	**2670**	<1.0	**184**	**1.1**	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**12.0**	<5.0	<4.0
	MS-17-20		20	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**13.2**	<2.0	**88.4**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**18.5**	**3290**	**3.5**	**482**	**6.5**	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-17R-20		20	4/4/22	µg/m^3	**1.1**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**12.3**	<2.0	**130**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**30.8**	**2950**	**5.1**	**525**	**5.1**	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-17B-40		40	9/3/21	µg/m^3	**4.2**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**122**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**13.4**	**1830**	**7.5**	**587**	**2.6**	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.2**	<5.0	<4.0
	MS-17R-40		40	4/4/22	µg/m^3	**7.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**17.4**	<2.0	**162**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**31.3**	**1570**	**11.4**	**596**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.7**	**5.5**	<4.0
	MS-17B-60		60	9/3/21	µg/m^3	**5.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**17.2**	<2.0	**146**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**19.8**	**717**	**20.9**	**726**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.4**	**7.2**	<4.0

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2- Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane (Freon-12)	1,1-Dichloroethane (1,1-DCA)	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Freon-113	Hexachlorobutadiene
Commercial/Industrial Screening Levels for Comparison																																							
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						840	--	--	--	1.8E+06	3.6E+06	3.6E+06	--	--	--	700,000	700,000	1,160	--	--	--	--	--	--	--	--	--	620,000	70,000	700,000	--	700,000	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3,200	520,000	660	22,000	--	--	--	4,000	440,000	1,060	--	--	--	4	40	36,000	1.8E+06	--	2,200	880,000	15,400	940	1.8E+06	--	360,000	6,600	--	--	--	6,200	--	9,800	4.4E+07	1,120
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						420	--	--	--	880,000	1.8E+06	1.8E+06	--	--	--	350,000	350,000	580	--	--	--	--	--	--	--	--	--	310,000	35,000	350,000	--	350,000	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1,600	260,000	330	11,000	--	--	--	2,000	220,000	530	--	--	--	2	20	18,000	880,000	--	1,100	440,000	7,700	470	880,000	--	180,000	3,300	--	--	--	3,100	--	4,900	2.2E+07	560
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						14	--	--	--	29,333	60,000	60,000	--	--	--	11,667	11,667	19	--	--	--	--	--	--	--	--	--	10,333	1,167	11,667	--	11,667	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						53	8,667	11	367	--	--	--	67	7,333	18	--	--	--	0.067	0.67	600	29,333	--	37	14,667	257	16	29,333	--	6,000	110	--	--	--	103	--	163	733,333	19
MS-18	MS-18-5		5	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**8.0**	**1.4**	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-18-10		10	8/27/21	µg/m^3	**1.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**8.6**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**9.1**	**8.9**	<1.0	**12.4**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**12.7**	<5.0	<4.0
	MS-18-20		20	9/17/21	µg/m^3	**1.6**	<2.0	**3.0**	<2.0	<5.0	<5.0	<5.0	**7.1**	<2.0	**62.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**9.7**	**155**	<1.0	**206**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**5.2**	<4.0
MS-19	MS-19-5		5	9/3/21	µg/m^3	**0.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1.3**	<2.0	**19.2**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.9**	**3.4**	<1.0	**13.8**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.2**	<5.0	<4.0
	MS-19-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MS-19-20		20	9/3/21	µg/m^3	**5.1**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**8.6**	<2.0	**233**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**17.9**	**112**	<1.0	**259**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**60.1**	<5.0	<4.0
MS-20	MS-20-5		5	9/3/21	µg/m^3	**1.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**5.2**	<2.0	**39.6**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.2**	**2.0**	<1.0	**8.9**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.5**	<5.0	<4.0
	MS-20-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MS-20-20		20	9/3/21	µg/m^3	**3.0**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**25.7**	<2.0	**158**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**10.3**	**19.6**	<1.0	**89.9**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**4.0**	<5.0	<4.0
MS-21 & MS-21R	MS-21-5		5	9/17/21	µg/m^3	**0.7**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1.5**	<2.0	**78.1**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.0**	**1.7**	<1.0	**1.8**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-21-5R		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1.9**	<2.0	**55**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**12.4**	**2.3**	<1.0	**2.5**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-21R-5		5	4/4/22	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**8.1**	<2.0	**199**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**24.0**	**10.1**	<1.0	**18.9**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-21R-5REP	X	5	4/4/22	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**7.3**	<2.0	**193**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**25.2**	**9.7**	<1.0	**17.8**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-21-20		20	9/17/21	µg/m^3	**0.6**	<2.0	**4.8**	<2.0	<5.0	<5.0	<5.0	**22.9**	<2.0	**787**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**22.5**	**44.6**	<1.0	**132**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**2.6**	<4.0
	MS-21R-20		20	4/4/22	µg/m^3	<0.5	<2.0	**5.2**	<2.0	<5.0	<5.0	<5.0	**31.1**	<2.0	**770**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**44.1**	**69.4**	<1.0	**183**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-22	MS-22-5		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**25.8**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**11.7**	<1.0	<1.0	**5.9**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-22-20		20	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**82.9**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**17**	**17.5**	<1.0	**54**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-23	MS-23-5		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**2.5**	<2.0	**85.9**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.3**	**1.7**	<1.0	**3.2**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23-5 REP	X	5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**3.2**	<2.0	**125**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.9**	**2.6**	<1.0	**4.6**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23-5		5	11/8/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**3.2**	<2.0	**115**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.6**	<1.0	<1.0	**3.7**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23-20		20	10/18/21	µg/m^3	<0.5	<2.0	**8.8**	<2.0	<5.0	<5.0	<5.0	**23.7**	<2.0	**1050**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**22.2**	**48.4**	<1.0	**144**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23-20		20	11/8/21	µg/m^3	<0.5	<2.0	**9.8**	<2.0	<5.0	<5.0	<5.0	**28.3**	<2.0	**1140**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**19.2**	**47.1**	<1.0	**150**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-23B	MS-23B-40		40	11/8/21	µg/m^3	**3.6**	<2.0	**15.4**	**5.9**	<5.0	<5.0	**60.1**	**38.4**	<2.0	**975**	<5.0	<5.0	**12.4**	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**26.7**	**84.7**	<1.0	**263**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23B-40-REP	X	40	11/8/21	µg/m^3	**4.0**	<2.0	**14.3**	**5.3**	<5.0	<5.0	**59.7**	**37.4**	<2.0	**909**	<5.0	<5.0	**12.8**	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**25.7**	**81.6**	<1.0	**252**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23B-40		40	4/4/22	µg/m^3	**0.6**	<2.0	**12.0**	**5.5**	<5.0	<5.0	<5.0	**54.7**	<2.0	**1210**	<5.0	<5.0	**7.5**	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**67.0**	**104**	<1.0	**271**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23B-60		60	11/8/21	µg/m^3	**9.1**	<2.0	**23.8**	**9.9**	<5.0	<5.0	<5.0	**36.9**	<2.0	**236**	<5.0	<5.0	**26.9**	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**30.5**	**27**	<1.0	**162**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**4.9**	<5.0	<4.0
	MS-23B-80		80	11/8/21	µg/m^3	**9.5**	<2.0	**24.7**	**9.4**	<5.0	<5.0	**23.5**	**157**	<2.0	**977**	<5.0	<5.0	**22.4**	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**60.6**	**149**	**2.6**	**513**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**7.2**	<5.0	<4.0
	MS-23B-100		100	11/8/21	µg/m^3	**5.3**	<2.0	**17.8**	**2.1**	<5.0	<5.0	<5.0	**444**	<2.0	**1840**	<5.0	<5.0	**4.8**	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**87.4**	**363**	**12.2**	**725**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**2.9**	<5.0	<4.0
	MS-23B-100-REP	X	100	11/8/21	µg/m^3	**6.0**	<2.0	**21.1**	<2.0	<5.0	<5.0	<5.0	**436**	<2.0	**1900**	<5.0	<5.0	**6.0**	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**87.1**	**364**	**12.7**	**716**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.8**	<5.0	<4.0
	MS-23B-100		100	4/4/22	µg/m^3	**1.1**	<2.0	**23.0**	**7.1**	<5.0	<5.0	<5.0	**470**	<2.0	**1790**	<5.0	<5.0	**13.6**	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**192**	**341**	**10.1**	**651**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-23C	MS-23C-125		125	1/12/22	µg/m^3	**6.4**	<1.0	**25.4**	<1.0	<1.5	<1.5	<1.5	**385**	<1.0	**1110**	<1.5	<1.5	**2.4**	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**98.3**	**187**	**3.9**	**384**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**3.2**	**3.3**	<3.0
	MS-23C-150		150	1/12/22	µg/m^3	**8.6**	<1.0	**32.8**	<1.0	<1.5	<1.5	<1.5	**1450**	<1.0	**1230**	<1.5	<1.5	**5.0**	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**96.8**	**259**	<1.0	**534**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**4.3**	**4.6**	<3.0
	MS-23C-150		150	4/4/22	µg/m^3	**7.3**	<2.0	**77.4**	**3.0**	<5.0	<5.0	<5.0	**2650**	<2.0	**1900**	<5.0	<5.0	**17.2**	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**243**	**362**	**6.1**	**736**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.5**	**6.2**	<4.0
	MS-23C-175		175	1/12/22	µg/m^3	**6.7**	<1.0	**24.1**	<1.0	<1.5	<1.5	<1.5	**2100**	<1.0	**1290**	<1.5	<1.5	**2.1**	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**85.1**	**305**	**9.2**	**560**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**3.9**	**4.2**	<3.0
	MS-23C-200		200	1/12/22	µg/m^3	**13.8**	<1.0	**9.9**	<1.0	<1.5	<1.5	<1.5	**4270**	<1.0	**1130**	<1.5	<1.5	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**63.1**	**493**	**17.1**	**860**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**5.4**	**8.3**	<3.0
	MS-23C-200		200	4/4/22	µg/m^3	**4.8**	<2.0	**59.4**	**3.1**	<5.0	<5.0	<5.0	**4920**	<2.0	**1370**	<5.0	<5.0	**13.7**	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**144**	**451**	**14.0**	**899**	**2.1**	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.1**	**8.8**	<4.0
MS-23D	MS-23D-250		250	10/7/22	µg/m^3	**2.6**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1690**	<2.0	**241**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**22.1**	**150**	**5.9**	**321**	**1.0**	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**5.7**	<4.0
	MS-23D-250 REP	X	250	10/7/22	µg/m^3	**2.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1870**	<2.0	**260**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**24.9**	**167**	**6.1**	**359**	**1.0**	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**6.9**	<4.0
	MS-23D-300		300	10/7/22	µg/m^3	**3.7**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**72.3**	<2.0	**15.8**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**8.6**	**21.5**	<1.0	**61.9**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23D-350		350	10/7/22	µg/m^3	**2.3**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**57.1**	<2.0	**13.1**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**6.7**	**102**	<1.0	**169**	**1.0**	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-23D-400		400	10/7/22	µg/m^3	**2.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**17.3**	<2.0	**4.8**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**5.8**	**18.4**	<1.0	**42.8**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-24	MS-24-5		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**4.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-24-20		20	10/18/21	µg/m^3	**0.8**	<2.0	**2.2**	<2.0	<5.0	<5.0	<5.0	**20.0**	<2.0	**172**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**22.7**	<1.0	<1.0	**17**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2- Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane (Freon-12)	1,1-Dichloroethane (1,1-DCA)	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Freon-113	Hexachlorobutadiene
Commercial/Industrial Screening Levels for Comparison																																							
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						840	--	--	--	1.8E+06	3.6E+06	3.6E+06	--	--	--	700,000	700,000	1,160	--	--	--	--	--	--	--	--	--	620,000	70,000	700,000	--	700,000	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3,200	520,000	660	22,000	--	--	--	4,000	440,000	1,060	--	--	--	4	40	36,000	1.8E+06	--	2,200	880,000	15,400	940	1.8E+06	--	360,000	6,600	--	--	--	6,200	--	9,800	4.4E+07	1,120
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						420	--	--	--	880,000	1.8E+06	1.8E+06	--	--	--	350,000	350,000	580	--	--	--	--	--	--	--	--	--	310,000	35,000	350,000	--	350,000	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1,600	260,000	330	11,000	--	--	--	2,000	220,000	530	--	--	--	2	20	18,000	880,000	--	1,100	440,000	7,700	470	880,000	--	180,000	3,300	--	--	--	3,100	--	4,900	2.2E+07	560
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						14	--	--	--	29,333	60,000	60,000	--	--	--	11,667	11,667	19	--	--	--	--	--	--	--	--	--	10,333	1,167	11,667	--	11,667	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						53	8,667	11	367	--	--	--	67	7,333	18	--	--	--	0.067	0.67	600	29,333	--	37	14,667	257	16	29,333	--	6,000	110	--	--	--	103	--	163	733,333	19
MS-25	MS-25-5		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-25-20		20	10/18/21	µg/m^3	**1.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**6.1**	<2.0	**45.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**22.5**	<1.0	<1.0	**5.1**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-26 & MS-26R	MS-26-5		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**2.8**	<2.0	**4.0**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**16.2**	<1.0	<1.0	**1.1**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-26R-5		5	4/4/22	µg/m^3	**1.2**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**4.4**	<2.0	**4.1**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**34.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-26-20		20	10/18/21	µg/m^3	**1.8**	<2.0	**3.7**	<2.0	<5.0	<5.0	<5.0	**81.9**	<2.0	**114**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**30**	**1.1**	<1.0	**39.8**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-26R-20		20	4/4/22	µg/m^3	**1.0**	<2.0	**3.6**	<2.0	<5.0	<5.0	<5.0	**84.4**	<2.0	**88.6**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**50.3**	<1.0	<1.0	**32.2**	<1.0	<1.0	<2.0	<2.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-27	MS-27-5		5	10/18/21	µg/m^3	**1.3**	<2.0	**1.5**	<2.0	<5.0	<5.0	<5.0	**36.1**	<2.0	**21.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**9.6**	<1.0	<1.0	**1**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-27-20		20	10/18/21	µg/m^3	**1.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**126**	<2.0	**157**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**14.4**	**6.1**	<1.0	**84.7**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-28	MS-28-5		5	11/8/21	µg/m^3	**5.2**	<2.0	**17.6**	**9.3**	<5.0	<5.0	<5.0	<1.0	<2.0	**14.2**	<5.0	<5.0	**24.3**	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**10.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**4.7**	<5.0	<4.0
	MS-28-20		20	11/8/21	µg/m^3	**3.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**29.7**	<1.0	<1.0	**8.7**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-29	MS-29-5		5	2/11/22	µg/m^3	**1.5**	<1.0	**3.4**	**1.7**	<1.5	<1.5	<1.5	**3.1**	<1.0	**8.6**	<1.5	<1.5	**2.7**	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**5**	**1.1**	<1.0	**8.5**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**3.2**	<2.0	<3.0
	MS-29-5		5	4/4/22	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**5.6**	<2.0	**8.3**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**13.6**	**2.5**	<1.0	**15.2**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-29-20		20	2/11/22	µg/m^3	**19**	<1.0	**2.8**	<1.0	<1.5	<1.5	<1.5	**22.6**	<1.0	**123**	<1.5	<1.5	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**8.9**	**50.4**	<1.0	**155**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**9**	<2.0	<3.0
	MS-29-20		20	4/4/22	µg/m^3	**NO FLOW**																																		
MS-30	MS-30-5		5	2/11/22	µg/m^3	<1.0	<1.0	**1.2**	<1.0	<1.5	<1.5	<1.5	**6.5**	<1.0	**3.1**	<1.5	<1.5	**1.1**	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**8.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	<1.0	<2.0	<3.0
	MS-30-5		5	4/4/22	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**5.9**	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**17.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	MS-30-20		20	2/11/22	µg/m^3	<1.0	<1.0	**3.9**	<1.0	<1.5	<1.5	<1.5	**39.9**	<1.0	**33.7**	<1.5	<1.5	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**21.9**	<1.0	<1.0	**24.5**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	<1.0	<2.0	<3.0
	MS-30-20		20	4/4/22	µg/m^3	<0.5	<2.0	**3.5**	<2.0	<5.0	<5.0	<5.0	**42.7**	<2.0	**30.5**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**44.1**	<1.0	<1.0	**28.6**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
MS-31	MS-31-5		5	2/11/22	µg/m^3	<1.0	<1.0	**1.4**	<1.0	<1.5	<1.5	<1.5	<1.0	<1.0	**1.7**	<1.5	<1.5	**1.5**	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**10.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	<1.0	<2.0	<3.0
	MS-31-20		20	2/11/22	µg/m^3	**8.7**	<1.0	<1.0	<1.0	<1.5	<1.5	<1.5	<1.0	<1.0	**1.1**	<1.5	<1.5	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**21.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**7.2**	<2.0	<3.0
MS-32	MS-32-5		5	2/11/22	µg/m^3	**3.6**	<1.0	**18**	**5.5**	<1.5	<1.5	<1.5	**3.5**	<1.0	**28**	<1.5	<1.5	**17.7**	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**5.5**	<1.0	**1.5**	**4**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**5.4**	<2.0	<3.0
	MS-32-20		20	2/11/22	µg/m^3	**6.2**	<1.0	<1.0	<1.0	<1.5	<1.5	<1.5	**56.4**	<1.0	**38.2**	<1.5	<1.5	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**10.6**	**7.3**	<1.0	**213**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**7.7**	<2.0	<3.0
	MS-32-20-REP	X	20	2/11/22	µg/m^3	**5.9**	<1.0	<1.0	<1.0	<1.5	<1.5	<1.5	**59.8**	<1.0	**38.6**	<1.5	<1.5	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	**10.7**	**7.7**	<1.0	**225**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.3	<1.0	<1.0	**7.2**	<2.0	<3.0
SS-4	SS-4-5		5	8/27/21	µg/m^3	**4.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**3.2**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.8**	**35.2**	<1.0	**25.0**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**6.3**	<5.0	<4.0
	SS-4-10		10	8/27/21	µg/m^3	**1.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**7.2**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**8.5**	**190**	<1.0	**67.9**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.5**	<5.0	<4.0
	SS-4-20		20	9/1/21	µg/m^3	**0.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**5.0**	<2.0	**50.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**14.0**	**1140**	<1.0	**356**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**5.0**	**8.5**	<4.0
SS-5	SS-5-5		5	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-5-5-REP	X	5	8/27/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-5-10		10	8/27/21	µg/m^3	**2.1**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**24.7**	<5.0	<4.0
	SS-5-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-6	SS-6-5		5	8/27/21	µg/m^3	**0.7**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**6.4**	<1.0	<1.0	**1.6**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-6-10		10	8/27/21	µg/m^3	**1.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**3.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	**18.7**	<1.0	**25.2**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**14.7**	<5.0	<4.0
	SS-6-20		20	9/17/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**3.2**	<2.0	**26.6**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**8.7**	**183**	<1.0	**160**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**5.7**	<4.0
SS-7	SS-7-5		5	8/31/21	µg/m^3	**1.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	**2.6**	<1.0	**7.1**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-7-5-RERUN		5	9/3/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	**5.0**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-7-10		10	8/31/21	µg/m^3	**0.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1.1**	<2.0	**3.8**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.2**	**18.9**	<1.0	**43.8**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<2.0	<4.0
	SS-7-20		20	9/17/21	µg/m^3	**1.3**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**5.8**	<2.0	**44.4**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**10.1**	**222**	<1.0	**247**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**6.8**	<4.0
SS-8	SS-8-5		5	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-8-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-8-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-9	SS-9-5		5	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-9-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-9-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2- Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane (Freon-12)	1,1-Dichloroethane (1,1-DCA)	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Freon-113	Hexachlorobutadiene
Commercial/Industrial Screening Levels for Comparison																																						
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						840	--	--	--	1.8E+06	3.6E+06	3.6E+06	--	--	--	700,000	700,000	1,160	--	--	--	--	--	--	--	--	--	620,000	70,000	700,000	--	700,000	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3,200	520,000	660	22,000	--	--	--	4,000	440,000	1,060	--	--	--	4	40	36,000	1.8E+06	--	2,200	880,000	15,400	940	1.8E+06	--	360,000	6,600	--	--	--	6,200	--	9,800	4.4E+07	1,120
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						420	--	--	--	880,000	1.8E+06	1.8E+06	--	--	--	350,000	350,000	580	--	--	--	--	--	--	--	--	--	310,000	35,000	350,000	--	350,000	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1,600	260,000	330	11,000	--	--	--	2,000	220,000	530	--	--	--	2	20	18,000	880,000	--	1,100	440,000	7,700	470	880,000	--	180,000	3,300	--	--	--	3,100	--	4,900	2.2E+07	560
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						14	--	--	--	29,333	60,000	60,000	--	--	--	11,667	11,667	19	--	--	--	--	--	--	--	--	--	10,333	1,167	11,667	--	11,667	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						53	8,667	11	367	--	--	--	67	7,333	18	--	--	--	0.067	0.67	600	29,333	--	37	14,667	257	16	29,333	--	6,000	110	--	--	--	103	--	163	733,333	19
SS-10 & SS-10R	SS-10-5		5	8/27/21	µg/m^3	**1.3**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**9.1**	<1.0	<1.0	**2.3**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**19.4**	<5.0	<4.0
	SS-10R-5		5	4/4/22	µg/m^3	**3.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**3.5**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**14.8**	<1.0	<1.0	**4.1**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.8**	<5.0	<4.0
	SS-10-10		10	8/27/21	µg/m^3	**0.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**8.2**	**3.9**	<1.0	**11.3**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**31.9**	<5.0	<4.0
	SS-10-20		20	9/1/21	µg/m^3	**2.2**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1.5**	<2.0	**17.5**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**12.0**	**72.2**	<1.0	**85.6**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**319**	**6.2**	<4.0
	SS-10R-20		20	4/4/22	µg/m^3	**1.9**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**2.4**	<2.0	**16.9**	<5.0	<5.0	<2.0	<5.0	<0.5	<2.0	<2.0	<2.0	<2.0	**16.9**	**58.9**	<1.0	**62.4**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**15.2**	<5.0	<4.0
SS-11	SS-11-5		5	8/31/21	µg/m^3	**2.4**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**5.8**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**9.6**	<1.0	<1.0	**4.3**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**5.0**	<4.0
	SS-11-10		10	8/31/21	µg/m^3	**1.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**3.8**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**10.0**	**5.5**	<1.0	**31.3**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**6.3**	<4.0
	SS-11-20		20	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**2.5**	<2.0	**17.7**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**14.0**	**49.0**	<1.0	**145**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	**6.5**	<4.0
SS-12	SS-12-5		5	8/31/21	µg/m^3	**0.8**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**4.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	**3.9**	<1.0	**8.4**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-12-5-RERUN		5	9/3/21	µg/m^3	**1.2**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	**3.7**	<1.0	**15.6**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-12-5R		5	10/18/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**2.9**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**7.6**	<1.0	<1.0	**9.0**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**19.1**	<5.0	<4.0
	SS-12-10		10	8/31/21	µg/m^3	**1.2**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**1.2**	<2.0	**13.8**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**10.6**	**52.0**	<1.0	**95.2**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	SS-12-20		20	9/1/21	µg/m^3	**1.0**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	**6.8**	<2.0	**85.4**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**18.7**	**427**	<1.0	**445**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	**3.5**	**10.5**	<4.0
AOI 36 - Former Hazardous Waste Area																																						
F36-1	F36-1-5		5	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	F36-1-10		10	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**10.7**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.4**	<1.0	<1.0	**12.9**	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
F36-2	F36-2-5		5	9/1/21	µg/m^3	**0.7**	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	F36-2-10		10	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	**5.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
F36-3	F36-3-5		5	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	F36-3-10		10	9/1/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0
	F36-3-10		10	9/17/21	µg/m^3	<0.5	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	**4.3**	<5.0	<5.0	<2.0	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<4.0	<8.0	<5.0	<2.0	<2.0	<2.0	<5.0	<4.0

Notes:

Bold: Reported chemical concentration in micrograms per cubic meter (µg/m^3)

<: Not detected at or above the indicated Reporting Limit (RL)

-- : No published value or not analyzed

* : Dilution required for this compound

NS: Not sampled

DTSC-SL: Department of Toxic Substances Control-modified screening level (May 2022)

EPA RSL: United States Environmental Protection Agency Regional Screening Level (May 2023)

AF: Attenuation Factor (see Notes 1 and 2 for additional information)

8260B: VOC Analytical Method

Calculated commercial screening values for soil vapor using the default AFs listed (for DTSC SL, the lower of the cancer or non-cancer level was used)

Concentration exceeds the commercial soil vapor screening level after application of the most conservative default soil vapor AF 0.03

Concentration exceeds the commercial soil vapor screening level after application of default soil vapor AF 0.001

Tracer gas concentration was detected in soil vapor sample (results may not be representative of subsurface conditions due to ambient air intrusion in sample)

1 : Default AF of 0.0005 for soil vapor in future commercial settings is in accordance with the DTSC Final Vapor Intrusion Guidance document (October 2011)

2 : Default AF of 0.001 for soil vapor in existing commercial settings is in accordance with the DTSC Final Vapor Intrusion Guidance document (October 2011)

3 : Default AF of 0.03 for soil vapor in accordance with the Final Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion from DTSC and California Water Resources Control Board (February 2023)

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane (Freon-11)	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	Methyl tert butyl ether (MTBE)	Ethyl-tert-butyl ether	Di-isopropylether	tert-amyl methyl ether	tert-Butyl alcohol	n-Pentane (Tracer Gas)	n-Hexane (Tracer Gas)	n-Heptane (Tracer Gas)
Commercial/Industrial Screening Levels for Comparison																																			
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						--	--	24,000	--	--	7.8E+06	--	--	4,000	2.6E+06	28,000	3,400	8.8E+06	--	--	1.1E+07	3.2	--	--	320	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3.6E+06	--	2.4E+06	720	8.8E+06	8.8E+06	3,400	420	94,000	4.4E+07	--	17,600	4.4E+07	1,540	6,000	--	2,600	520,000	520,000	5,600	880,000	880,000	94,000	300,000	6.2E+06	--	4.4E+07	8.8E+06	6.2E+06	3.6E+06
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						--	--	12,000	--	--	3.9E+06	--	--	2,000	1.3E+06	14,000	1,700	4.4E+06	--	--	5.3E+06	2	--	--	160	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1.8E+06	--	1.2E+06	360	4.4E+06	4.4E+06	1,700	210	47,000	2.2E+07	--	8,800	2.2E+07	770	3,000	--	1,300	260,000	260,000	2,800	440,000	440,000	47,000	150,000	3.1E+06	--	2.2E+07	4.4E+06	3.1E+06	1.8E+06
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						--	--	400	--	--	130,000	--	--	67	43,333	467	57	146,667	--	--	176,667	0.053	--	--	5	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						60,000	--	40,000	12	146,667	146,667	57	7	1,567	733,333	--	293	733,333	26	100	--	43	8,667	8,667	93	14,667	14,667	1,567	5,000	103,333	--	733,333	146,667	103,333	60,000
AOI 1 - Distillate Tank for Unit 5 Peaker																																			
DT-1	DT-1-5		5	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**9190**	**12700**	**11800**
	DT-1-5-RERUN		5	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**46100**	**15100**	**8760**
	DT-1-10		10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	**2.0**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
DT-2	DT-2-5		5	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	**10.9**	<2.0	<0.5	**4.4**	**5.3**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	DT-2-10		10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	**5.0**	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	**5.1**	<2.0	<0.5	**2.8**	**14.8**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
DT-3	DT-3-5		5	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	DT-3-10		10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
DT-4	DT-4-5		5	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	DT-4-10		10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**4.8**	**12.1**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
AOI 5 - Fueling Station																																			
F5-1	F5-1-5		5	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**88.7**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	F5-1-10		10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**14.9**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
F5-2	F5-2-5		5	8/31/21	µg/m^3	**2.4**	**2.0**	<2.0	<2.0	**9.0**	<2.0	<4.0	<1.0	**35.6**	**89.8**	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	**76.1**	**19.6**	<0.5	**179**	**69.5**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	F5-2-10		10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**40.0**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
AOI 6 - Unit 5 Peaker																																			
P-1	P-1-5		5	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**317**	<5.0	<10.0	<10.0	**4.2**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**2.9**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-1-10		10	8/27/21	µg/m^3	<2.0	**6.2**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**225**	**5.6**	<10.0	<10.0	**12.4**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**21.2**	**7.1**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-1B	P-1B-20		20	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	**4.1**	<4.0	<1.0	**137**	**44.3**	<10.0	<10.0	**9.9**	<4.0	<5.0	<5.0	<2.0	**2.7**	<2.0	<0.5	**21.1**	**5.0**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-1B-40		40	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**129**	**20.1**	<10.0	<10.0	**6.3**	<4.0	<5.0	<5.0	<2.0	**3.4**	<2.0	<0.5	**17.0**	**5.7**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-2	P-2-5		5	8/31/21	µg/m^3	<2.0	**3.5**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**197**	<5.0	<10.0	<10.0	**3.8**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**2.4**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-2-10		10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**269**	<5.0	<10.0	<10.0	**8.1**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-2-10-REP	X	10	8/31/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**212**	<5.0	<10.0	<10.0	**6.4**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-3	P-3-5		5	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**46.7**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-3-10		10	8/31/21	µg/m^3	<2.0	**5.8**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**108**	**7.2**	<10.0	<10.0	**4.1**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**3.9**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-4	P-4-5		5	8/31/21	µg/m^3	<2.0	**15.2**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**73.6**	<5.0	<10.0	<10.0	**4.3**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**5.9**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-4-10		10	8/31/21	µg/m^3	<2.0	**10.0**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**89.3**	<5.0	<10.0	<10.0	**5.6**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**3.4**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-5	P-5-5		5	9/3/21	µg/m^3	<2.0	**15.7**	<20.0	<2.0	<2.0	**2.2**	<4.0	<1.0	**204**	**32.4**	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	**6.6**	**2.4**	<0.5	**22.3**	**6.8**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-5-20		20	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**111**	**69.0**	<10.0	<10.0	**2.4**	<4.0	<5.0	<5.0	<2.0	**3.7**	<2.0	<0.5	**61.5**	**20.0**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-5-20-REP	X	20	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**115**	**68.9**	<10.0	<10.0	**2.4**	<4.0	<5.0	<5.0	<2.0	**3.8**	<2.0	<0.5	**64.8**	**20.4**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-6	P-6-5		5	9/3/21	µg/m^3	**46.0**	**29.7**	<20.0	<2.0	**2.9**	<2.0	<4.0	<1.0	**10.1**	**3950**	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	**9.2**	**3.4**	<0.5	**131**	**46.7**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-6-20		20	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**32.9**	**16.3**	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**43.3**	**15.4**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-7	P-7-5		5	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	**16.9**	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	**5.3**	**2.5**	<0.5	**3.2**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-8	P-8-5		5	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**18.2**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-8-20		20	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**54.7**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
P-9	P-9-5		5	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**42.2**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**152**	**134**	**50.5**
	P-9-5R		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**48.6**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**5.4**	**2.8**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	P-9-20		20	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**192**	<5.0	<10.0	<10.0	**2.2**	<4.0	<5.0	<5.0	<2.0	**2.2**	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
AOI 14 - Hazardous Waste Accumulation Area																																			
F14-1	F14-1-5		5	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	F14-1-10		10	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
AOI 15 - Generating 1 & 2																																			
F15-1	F15-1-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**8.9**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane (Freon-11)	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	Methyl tert butyl ether (MTBE)	Ethyl-tert-butyl ether	Di-isopropylether	tert-amyl methyl ether	tert-Butyl alcohol	n-Pentane (Tracer Gas)	n-Hexane (Tracer Gas)	n-Heptane (Tracer Gas)
Commercial/Industrial Screening Levels for Comparison																																			
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						--	--	24,000	--	--	7.8E+06	--	--	4,000	2.6E+06	28,000	3,400	8.8E+06	--	--	1.1E+07	3.2	--	--	320	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3.6E+06	--	2.4E+06	720	8.8E+06	8.8E+06	3,400	420	94,000	4.4E+07	--	17,600	4.4E+07	1,540	6,000	--	2,600	520,000	520,000	5,600	880,000	880,000	94,000	300,000	6.2E+06	--	4.4E+07	8.8E+06	6.2E+06	3.6E+06
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						--	--	12,000	--	--	3.9E+06	--	--	2,000	1.3E+06	14,000	1,700	4.4E+06	--	--	5.3E+06	2	--	--	160	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1.8E+06	--	1.2E+06	360	4.4E+06	4.4E+06	1,700	210	47,000	2.2E+07	--	8,800	2.2E+07	770	3,000	--	1,300	260,000	260,000	2,800	440,000	440,000	47,000	150,000	3.1E+06	--	2.2E+07	4.4E+06	3.1E+06	1.8E+06
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						--	--	400	--	--	130,000	--	--	67	43,333	467	57	146,667	--	--	176,667	0.053	--	--	5	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						60,000	--	40,000	12	146,667	146,667	57	7	1,567	733,333	--	293	733,333	26	100	--	43	8,667	8,667	93	14,667	14,667	1,567	5,000	103,333	--	733,333	146,667	103,333	60,000
AOI 17 - Maintenance Shop																																			
SS-1B	SS-1B-5		5	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**214**	<5.0	<10.0	<10.0	**220**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**2.6**	**2.0**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-1B-10		10	8/27/21	µg/m^3	<2.0	**40.0**	<2.0	<2.0	**2.4**	**3.2**	<4.0	<1.0	**304**	**15.2**	<10.0	<10.0	**329**	<4.0	**8.3**	<5.0	<2.0	**14.3**	**5.1**	<0.5	**29.9**	**11.3**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-1B-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**531**	<5.0	<10.0	<10.0	**977**	<4.0	**43.1**	**7.2**	<2.0	<2.0	<2.0	<0.5	**3.0**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-10 & MS-10R	MS-10-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**11.2**	<5.0	<10.0	<10.0	**8.1**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-10R-5		5	4/4/22	µg/m^3	<2.0	**60.5**	<2.0	<2.0	<2.0	**2.0**	<1.0	<1.0	**15.0**	**17.1**	<10.0	<10.0	**10.1**	<2.0	<5.0	**37.4**	<2.0	**7.6**	<2.0	<0.5	**7.5**	**3.3**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-10-10		10	8/31/21	µg/m^3	<2.0	**4.8**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**27.5**	<5.0	<10.0	<10.0	**20.5**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-10-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**66.0**	<5.0	<10.0	<10.0	**44.9**	<4.0	**9.6**	**6.1**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-10R-20		20	4/4/22	µg/m^3	<2.0	**10.0**	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**57.5**	**25.5**	<10.0	<10.0	**43.0**	<2.0	**9.0**	**46.1**	<2.0	<2.0	<2.0	<0.5	**7.5**	**2.7**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
MS-11	MS-11-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**10.7**	<5.0	<10.0	<10.0	**5.7**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-11-10		10	8/31/21	µg/m^3	<2.0	**3.7**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**39.1**	**8.7**	<10.0	<10.0	**29.5**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**2.8**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-11-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**102**	**3.7**	<10.0	<10.0	**98.1**	<4.0	**11.8**	**10.8**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-12	MS-12-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**23.8**	<5.0	<10.0	<10.0	**20.0**	<4.0	<5.0	**7.9**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-12-10		10	8/31/21	µg/m^3	<2.0	**21.8**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**54.0**	**5.9**	<10.0	<10.0	**50.7**	<4.0	<5.0	**15.3**	<2.0	<2.0	**2.5**	<0.5	**7.2**	**2.1**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-12-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**109**	<5.0	<10.0	<10.0	**118**	<4.0	**12.0**	**20.1**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-13 MS-13B & MS-13R	MS-13-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**32.3**	<5.0	<10.0	<10.0	**23.8**	<4.0	<5.0	**11.6**	<2.0	<2.0	<2.0	<0.5	**2.4**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-13R-5		5	4/4/22	µg/m^3	**3.0**	**26.6**	<2.0	<2.0	<2.0	**8.7**	<1.0	<1.0	**25.7**	**41.8**	<10.0	<10.0	**24.6**	<2.0	<5.0	**364**	<2.0	<2.0	<2.0	<0.5	**104**	**36.9**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-13-10		10	8/31/21	µg/m^3	<2.0	**29.6**	<20.0	<2.0	**3.3**	<2.0	<4.0	<1.0	**44.4**	**65.4**	<10.0	<10.0	**32.8**	<4.0	<5.0	**22.5**	<2.0	**26.5**	**8.9**	<0.5	**70.9**	**11.3**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-13-10-REP	X	10	8/31/21	µg/m^3	<2.0	**26.7**	<20.0	<2.0	**3.5**	<2.0	<4.0	<1.0	**43.6**	**55.5**	<10.0	<10.0	**33.1**	<4.0	<5.0	**21.0**	<2.0	**22.2**	**8.1**	<0.5	**62.0**	**9.8**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-13-20		20	9/1/21	µg/m^3	<2.0	**3.3**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**95.6**	**10.7**	<10.0	<10.0	**87.3**	<4.0	**11.6**	**31.4**	<2.0	**5.3**	<2.0	<0.5	**5.8**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-13R-20		20	4/4/22	µg/m^3	**3.2**	**13.2**	<2.0	<2.0	<2.0	**2.1**	<1.0	<1.0	**76.7**	**16.3**	<10.0	<10.0	**81.7**	<2.0	**20.1**	**192**	<2.0	**3.2**	<2.0	<0.5	**19.5**	**6.9**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-13B-35		35	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	**2.1**	<4.0	<1.0	**46.4**	**37.1**	<10.0	<10.0	**87.8**	<4.0	**10.6**	**28.3**	<2.0	<2.0	<2.0	<0.5	**8.1**	<2.0	<5.0	<5.0	<5.0	<5.0	**214**	<5.0	<5.0	<5.0
	MS-13B-50		50	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	**2.6**	<4.0	<1.0	**19.9**	**51.5**	<10.0	<10.0	**74.2**	<4.0	**9.2**	**34.7**	<2.0	**2.4**	<2.0	<0.5	**10.2**	<2.0	<5.0	<5.0	<5.0	<5.0	**792**	<5.0	<5.0	<5.0
	MS-13R-46		46	4/4/22	µg/m^3	<2.0	**8.0**	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**122**	**6.6**	<10.0	<10.0	**110**	**3.9**	**17.2**	**99.2**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
MS-14	MS-14-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**58.7**	<5.0	<10.0	<10.0	**57.4**	<4.0	<5.0	**21.0**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-14-10		10	8/31/21	µg/m^3	<2.0	**2.1**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**65.9**	<5.0	<10.0	<10.0	**66.2**	<4.0	<5.0	**22.3**	<2.0	**10.9**	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-14-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MS-15	MS-15-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**52.7**	<5.0	<10.0	<10.0	**59.4**	<4.0	<5.0	**10.1**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-15-10		10	8/31/21	µg/m^3	<2.0	**31.0**	<20.0	<2.0	**5.4**	<2.0	<4.0	<1.0	**69.8**	**18.3**	<10.0	<10.0	**69.8**	<4.0	<5.0	**10.9**	<2.0	**28.3**	**10.0**	<0.5	**28.3**	**3.9**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-15-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**158**	<5.0	<10.0	<10.0	**225**	<4.0	**6.2**	**29.4**	<2.0	<2.0	<2.0	<0.5	**2.1**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-16	MS-16-5		5	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**179**	<5.0	<10.0	<10.0	**435**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-16-10		10	8/27/21	µg/m^3	<2.0	**24.4**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**250**	**38.1**	<10.0	<10.0	**499**	<4.0	**9.7**	**10.7**	<2.0	**9.7**	**4.0**	<0.5	**35.2**	**9.0**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-16-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**373**	<5.0	<10.0	<10.0	**772**	<4.0	**27.6**	**16.6**	<2.0	<2.0	<2.0	<0.5	**4.2**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-16-20-REP	X	20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**387**	<5.0	<10.0	<10.0	**789**	<4.0	**27.1**	**16.9**	<2.0	<2.0	<2.0	<0.5	**4.1**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-17 MS-17B & MS-17R	MS-17-5		5	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**1570**	<5.0	<10.0	<10.0	**2470**	<4.0	**55.1**	<5.0	<2.0	**2.4**	<2.0	<0.5	**13.0**	**5.4**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-17R-5		5	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**1060**	<5.0	<10.0	<10.0	**1450**	**34.6**	**34.7**	**72.5**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-17-10		10	8/27/21	µg/m^3	<2.0	**51.0**	<2.0	<2.0	**3.4**	**5.5**	<4.0	<1.0	**1900**	**39.6**	<10.0	<10.0	**2950**	<4.0	**72.3**	<5.0	<2.0	**19.7**	**7.0**	<0.5	**62.1**	**19.3**	<5.0	<5.0	<5.0	<5.0	**128**	<5.0	<5.0	<5.0
	MS-17-20		20	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**1280**	<5.0	<10.0	<10.0	**2870**	**4.3**	**194**	**9.3**	<2.0	<2.0	<2.0	<0.5	**2.6**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-17R-20		20	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**1210**	<5.0	<10.0	<10.0	**2210**	**4.6**	**139**	**30.3**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-17B-40		40	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	**2.5**	<4.0	<1.0	**234**	**46.0**	<10.0	<10.0	**1260**	**4.3**	**58.8**	**12.1**	<2.0	**2.1**	<2.0	<0.5	**10.8**	**2.2**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-17R-40		40	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	**2.3**	<1.0	<1.0	**454**	**14.8**	<10.0	<10.0	**1030**	**5.2**	**54.9**	**25.5**	<2.0	<2.0	<2.0	<0.5	<5.0	**2.2**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-17B-60		60	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	**2.7**	<4.0	<1.0	**50.3**	**61.7**	<10.0	<10.0	**356**	**3.5**	**13.1**	**18.1**	<2.0	**2.2**	<2.0	<0.5	**12.7**	**2.3**	<5.0	<5.0	<5.0	<5.0	**823**	<5.0	<5.0	<5.0

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane (Freon-11)	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	Methyl tert butyl ether (MTBE)	Ethyl-tert-butyl ether	Di-isopropylether	tert-amyl methyl ether	tert-Butyl alcohol	n-Pentane (Tracer Gas)	n-Hexane (Tracer Gas)	n-Heptane (Tracer Gas)
Commercial/Industrial Screening Levels for Comparison																																			
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						--	--	24,000	--	--	7.8E+06	--	--	4,000	2.6E+06	28,000	3,400	8.8E+06	--	--	1.1E+07	3.2	--	--	320	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3.6E+06	--	2.4E+06	720	8.8E+06	8.8E+06	3,400	420	94,000	4.4E+07	--	17,600	4.4E+07	1,540	6,000	--	2,600	520,000	520,000	5,600	880,000	880,000	94,000	300,000	6.2E+06	--	4.4E+07	8.8E+06	6.2E+06	3.6E+06
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						--	--	12,000	--	--	3.9E+06	--	--	2,000	1.3E+06	14,000	1,700	4.4E+06	--	--	5.3E+06	2	--	--	160	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1.8E+06	--	1.2E+06	360	4.4E+06	4.4E+06	1,700	210	47,000	2.2E+07	--	8,800	2.2E+07	770	3,000	--	1,300	260,000	260,000	2,800	440,000	440,000	47,000	150,000	3.1E+06	--	2.2E+07	4.4E+06	3.1E+06	1.8E+06
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						--	--	400	--	--	130,000	--	--	67	43,333	467	57	146,667	--	--	176,667	0.053	--	--	5	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						60,000	--	40,000	12	146,667	146,667	57	7	1,567	733,333	--	293	733,333	26	100	--	43	8,667	8,667	93	14,667	14,667	1,567	5,000	103,333	--	733,333	146,667	103,333	60,000
MS-18	MS-18-5		5	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**43.1**	<5.0	<10.0	<10.0	**48.5**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-18-10		10	8/27/21	µg/m^3	<2.0	**40.4**	<2.0	**2.2**	**3.0**	<2.0	<4.0	<1.0	**62.0**	**26.6**	<10.0	<10.0	**67.0**	<4.0	<5.0	<5.0	<2.0	**19.9**	**7.0**	<0.5	**70.9**	**28.7**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-18-20		20	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**120**	<5.0	<10.0	<10.0	**161**	<4.0	**5.1**	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-19	MS-19-5		5	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**14.0**	**10.5**	<10.0	<10.0	**10.4**	<4.0	<5.0	**10.8**	<2.0	**2.5**	<2.0	<0.5	**15.1**	**6.1**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-19-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MS-19-20		20	9/3/21	µg/m^3	**2.8**	<2.0	<20.0	<2.0	**3.8**	<2.0	<4.0	<1.0	**70.3**	**31.1**	<10.0	<10.0	**80.4**	<4.0	<5.0	**35.2**	<2.0	**15.0**	**3.8**	<0.5	**324**	**140**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-20	MS-20-5		5	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**9.3**	**58.7**	<10.0	<10.0	**2.1**	<4.0	<5.0	**9.8**	<2.0	**2.2**	<2.0	<0.5	**13.7**	**3.6**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-20-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MS-20-20		20	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**9.3**	**70.8**	<10.0	<10.0	**5.5**	<4.0	<5.0	**12.5**	<2.0	**2.3**	<2.0	<0.5	**13.2**	**3.0**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-21 & MS-21R	MS-21-5		5	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**7.7**	<5.0	<10.0	<10.0	**5.8**	<4.0	**5.6**	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**138**	**124**	**49.5**
	MS-21-5R		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**14.5**	<5.0	<10.0	<10.0	**8.1**	<4.0	<5.0	**29.5**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-21R-5		5	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**18.6**	<5.0	<10.0	<10.0	**9.8**	<2.0	<5.0	**74.1**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-21R-5REP	X	5	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**20.1**	<5.0	<10.0	<10.0	**9.2**	<2.0	<5.0	**71.0**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-21-20		20	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**30.1**	**4.8**	<10.0	<10.0	**16.3**	<4.0	**2.8**	**31.9**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-21R-20		20	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**37.7**	<5.0	<10.0	<10.0	**21.3**	<2.0	<5.0	**82.9**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
MS-22	MS-22-5		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**10.4**	<5.0	<10.0	<10.0	**6.8**	<4.0	<5.0	**11.2**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-22-20		20	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**15.4**	<5.0	<10.0	<10.0	**11.9**	<4.0	<5.0	**16.8**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-23	MS-23-5		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	**2**	<4.0	<1.0	<5.0	**11.6**	<10.0	<10.0	**7.6**	<4.0	<5.0	**12.2**	<2.0	<2.0	<2.0	<0.5	**3.1**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23-5 REP	X	5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	**3.1**	<4.0	<1.0	**7.4**	**14.7**	<10.0	<10.0	**11.7**	<4.0	<5.0	**17.9**	<2.0	<2.0	<2.0	<0.5	**3.4**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23-5		5	11/8/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**5.6**	<5.0	<10.0	<10.0	**8.5**	<4.0	<5.0	**15.5**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23-20		20	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**21.4**	<5.0	<10.0	<10.0	**29.5**	<4.0	<5.0	**59.1**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23-20		20	11/8/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**23.6**	<5.0	<10.0	<10.0	**27.6**	<4.0	<5.0	**56.7**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-23B	MS-23B-40		40	11/8/21	µg/m^3	<2.0	**13.2**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**35.9**	**13.3**	<10.0	<10.0	**20.5**	<4.0	<5.0	**75.3**	<2.0	**15.1**	<2.0	<0.5	**3.8**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23B-40-REP	X	40	11/8/21	µg/m^3	<2.0	**13.5**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**33.6**	**15.1**	<10.0	<10.0	**19.4**	<4.0	<5.0	**74**	<2.0	**15.8**	<2.0	<0.5	**4.5**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23B-40		40	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**46.3**	<5.0	<10.0	<10.0	**25.6**	<2.0	**5.5**	**108**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-23B-60		60	11/8/21	µg/m^3	**2.6**	**35.7**	<20.0	<2.0	<2.0	**3.8**	<4.0	<1.0	**6.2**	**51.3**	<10.0	<10.0	**4.9**	<4.0	<5.0	**89.9**	<2.0	**28.8**	**6.6**	<0.5	**16.8**	**4.9**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23B-80		80	11/8/21	µg/m^3	<2.0	**4.5**	<20.0	<2.0	<2.0	**11.2**	<4.0	<1.0	**29.8**	**69.3**	<10.0	<10.0	**17.5**	<4.0	**7.2**	**198**	<2.0	<2.0	**3.4**	<0.5	**27.1**	**7.4**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23B-100		100	11/8/21	µg/m^3	<2.0	**2.0**	<20.0	<2.0	<2.0	**3.7**	<4.0	<1.0	**66.2**	**17.6**	<10.0	<10.0	**15.9**	<4.0	**18.8**	**329**	<2.0	**3.3**	<2.0	<0.5	**8.3**	**2.4**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23B-100-REP	X	100	11/8/21	µg/m^3	<2.0	**2.6**	<20.0	<2.0	<2.0	**4.8**	<4.0	<1.0	**66.1**	**20.5**	<10.0	<10.0	**16.4**	<4.0	**19.4**	**323**	<2.0	**4.2**	<2.0	<0.5	**11.1**	**3.2**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-23B-100		100	4/4/22	µg/m^3	<2.0	<2.0	**2.8**	<2.0	<2.0	<2.0	<1.0	<1.0	**66.0**	<5.0	<10.0	<10.0	**16.5**	<2.0	**15.6**	**386**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
MS-23C	MS-23C-125		125	1/12/22	µg/m^3	<1.0	**9.8**	**4.7**	<5.0	<1.0	**1.6**	<1.0	<2.0	**36.2**	**16.0**	<10.0	<10.0	<1.0	<1.0	**8.9**	**411**	<1.0	**2.7**	**1.0**	<1.0	**6.9**	**2.6**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-23C-150		150	1/12/22	µg/m^3	<1.0	**15**	**8.6**	<5.0	**1.3**	**3.6**	<1.0	<2.0	**58.7**	**29.6**	<10.0	<10.0	<1.0	<1.0	**16.4**	**340**	<1.0	**3.7**	**1.4**	<1.0	**9.0**	**3.5**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-23C-150		150	4/4/22	µg/m^3	<2.0	<2.0	**6.7**	<2.0	<2.0	<2.0	<1.0	<1.0	**109**	**24.0**	<10.0	<10.0	**4.4**	<2.0	**21.8**	**429**	<2.0	<2.0	<2.0	**1.1**	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-23C-175		175	1/12/22	µg/m^3	<1.0	**14.2**	**11.1**	<5.0	<1.0	**3.8**	<1.0	<2.0	**67.6**	**21.6**	<10.0	<10.0	<1.0	<1.0	**19.8**	**256**	<1.0	**3.4**	**1.1**	<1.0	**10.0**	**3.5**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-23C-200		200	1/12/22	µg/m^3	<1.0	**4.3**	**27.2**	<5.0	**1.6**	**4.9**	<1.0	<2.0	**196**	**25.1**	<10.0	<10.0	<1.0	<1.0	**42.3**	**94.6**	<1.0	**3.5**	**1.2**	<1.0	**10.8**	**3.6**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-23C-200		200	4/4/22	µg/m^3	<2.0	<2.0	**22.0**	<2.0	<2.0	<2.0	<1.0	<1.0	**197**	**13.5**	<10.0	<10.0	**1.2**	<2.0	**41.5**	**119**	<2.0	<2.0	<2.0	**2.4**	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
MS-23D	MS-23D-250		250	10/7/22	µg/m^3	<2.0	**3.1**	**16.5**	<2.0	<2.0	<2.0	<1.0	<1.0	**51.5**	**5.8**	<10.0	<10.0	<2.0	<2.0	**19.2**	**27.1**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50.0	<50.0	<50.0
	MS-23D-250 REP	X	250	10/7/22	µg/m^3	<2.0	**3.7**	**18.8**	<2.0	<2.0	<2.0	<1.0	<1.0	**55.4**	**6.3**	<10.0	<10.0	<2.0	<2.0	**22.2**	**29.9**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50.0	<50.0	<50.0
	MS-23D-300		300	10/7/22	µg/m^3	<2.0	**2.9**	**4.0**	<2.0	<2.0	<2.0	<1.0	<1.0	**7.8**	**10.9**	<10.0	<10.0	<2.0	<2.0	<5.0	**5.7**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50.0	<50.0	<50.0
	MS-23D-350		350	10/7/22	µg/m^3	<2.0	**2.5**	**7.0**	<2.0	<2.0	<2.0	<1.0	<1.0	**26.8**	**18.6**	<10.0	<10.0	<2.0	<2.0	**13.8**	**5.2**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50.0	<50.0	<50.0
	MS-23D-400		400	10/7/22	µg/m^3	<2.0	**2.2**	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**26.0**	**21.0**	<10.0	<10.0	<2.0	<2.0	**5.2**	<5.0	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50.0	<50.0	<50.0
MS-24	MS-24-5		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	**12.6**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-24-20		20	10/18/21	µg/m^3	<2.0	**5.3**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**6.0**	<5.0	<10.0	<10.0	**13.2**	<4.0	<5.0	**70.7**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane (Freon-11)	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	Methyl tert butyl ether (MTBE)	Ethyl-tert-butyl ether	Di-isopropylether	tert-amyl methyl ether	tert-Butyl alcohol	n-Pentane (Tracer Gas)	n-Hexane (Tracer Gas)	n-Heptane (Tracer Gas)
Commercial/Industrial Screening Levels for Comparison																																			
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						--	--	24,000	--	--	7.8E+06	--	--	4,000	2.6E+06	28,000	3,400	8.8E+06	--	--	1.1E+07	3.2	--	--	320	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3.6E+06	--	2.4E+06	720	8.8E+06	8.8E+06	3,400	420	94,000	4.4E+07	--	17,600	4.4E+07	1,540	6,000	--	2,600	520,000	520,000	5,600	880,000	880,000	94,000	300,000	6.2E+06	--	4.4E+07	8.8E+06	6.2E+06	3.6E+06
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						--	--	12,000	--	--	3.9E+06	--	--	2,000	1.3E+06	14,000	1,700	4.4E+06	--	--	5.3E+06	2	--	--	160	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1.8E+06	--	1.2E+06	360	4.4E+06	4.4E+06	1,700	210	47,000	2.2E+07	--	8,800	2.2E+07	770	3,000	--	1,300	260,000	260,000	2,800	440,000	440,000	47,000	150,000	3.1E+06	--	2.2E+07	4.4E+06	3.1E+06	1.8E+06
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						--	--	400	--	--	130,000	--	--	67	43,333	467	57	146,667	--	--	176,667	0.053	--	--	5	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						60,000	--	40,000	12	146,667	146,667	57	7	1,567	733,333	--	293	733,333	26	100	--	43	8,667	8,667	93	14,667	14,667	1,567	5,000	103,333	--	733,333	146,667	103,333	60,000
MS-25	MS-25-5		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	**10.2**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-25-20		20	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	**14.4**	<10.0	<10.0	<2.0	<4.0	<5.0	**83.7**	<2.0	<2.0	<2.0	<0.5	**4**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-26 & MS-26R	MS-26-5		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	**5.6**	<10.0	<10.0	**12.3**	<4.0	<5.0	**38.8**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-26R-5		5	4/4/22	µg/m^3	<2.0	**2.9**	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**7.5**	<5.0	<10.0	<10.0	**7.7**	<2.0	**5.8**	**45.2**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-26-20		20	10/18/21	µg/m^3	<2.0	**3.2**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**11.6**	**10.1**	<10.0	<10.0	**7.8**	<4.0	<5.0	**89.2**	<2.0	**2.6**	<2.0	<0.5	**2.9**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-26R-20		20	4/4/22	µg/m^3	<2.0	**6.9**	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**9.8**	**5.0**	<10.0	<10.0	**4.8**	<2.0	<5.0	**77.2**	<2.0	<2.0	<2.0	<0.5	**6.6**	**4.5**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
MS-27	MS-27-5		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**6.3**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	**33**	<2.0	<2.0	<2.0	<0.5	**6.8**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-27-20		20	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**16.3**	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	**23.9**	<2.0	<2.0	<2.0	<0.5	<0.5	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-28	MS-28-5		5	11/8/21	µg/m^3	<2.0	**13.3**	<20.0	<2.0	<2.0	**7.5**	<4.0	<1.0	<5.0	**41.5**	<10.0	<10.0	<2.0	<4.0	<5.0	**35.8**	<2.0	**15.1**	<2.0	<0.5	**17.7**	**4.6**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	MS-28-20		20	11/8/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	**2.0**	<4.0	<1.0	**6.4**	**16.2**	<10.0	<10.0	<2.0	<4.0	<5.0	**152**	<2.0	<2.0	<2.0	<0.5	**4.9**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
MS-29	MS-29-5		5	2/11/22	µg/m^3	<1.0	**10.2**	<1.0	<5.0	<1.0	<1.0	<1.0	<2.0	**5.7**	**7.4**	<2.0	<2.0	<1.0	<1.0	<1.0	**51.2**	<1.0	**7.2**	**1.3**	<1.0	**12.1**	**4.1**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-29-5		5	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**9.5**	<5.0	<10.0	<10.0	<2.0	<2.0	<5.0	**133**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-29-20		20	2/11/22	µg/m^3	<1.0	<1.0	<1.0	<5.0	**1.8**	<1.0	<1.0	<2.0	**10.3**	**44.5**	<2.0	<2.0	**3.7**	<1.0	**4.7**	**11900***	<1.0	**5.9**	**2**	<1.0	**36.3**	**9.1**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-29-20		20	4/4/22	µg/m^3	**NO FLOW**																													
MS-30	MS-30-5		5	2/11/22	µg/m^3	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<2.0	**3.2**	<1.0	<2.0	<2.0	<1.0	<1.0	**1.1**	**14.4**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-30-5		5	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**8.4**	<5.0	<10.0	<10.0	<2.0	<2.0	<5.0	**13.6**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	MS-30-20		20	2/11/22	µg/m^3	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<2.0	**9.0**	**2.2**	<2.0	<2.0	<1.0	<1.0	**1.4**	**59.8**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-30-20		20	4/4/22	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**10.9**	**3.8**	<10.0	<10.0	<2.0	<2.0	<5.0	**70.0**	<2.0	<2.0	<2.0	<0.5	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
MS-31	MS-31-5		5	2/11/22	µg/m^3	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<2.0	**1.8**	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	**34**	<1.0	**1.7**	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-31-20		20	2/11/22	µg/m^3	**1.6**	<1.0	<1.0	<5.0	<1.0	**2.7**	<1.0	<2.0	**5.8**	**15.4**	<2.0	<2.0	<1.0	<1.0	**1.7**	**99.3**	<1.0	**7.8**	<1.0	<1.0	**10.5**	**6**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
MS-32	MS-32-5		5	2/11/22	µg/m^3	**1.9**	**19.8**	<1.0	<5.0	<1.0	<1.0	<1.0	<2.0	**5.1**	**90.4**	<2.0	<2.0	<1.0	<1.0	<1.0	**17.3**	<1.0	**2.1**	**1.2**	<1.0	**24.5**	**9**	<5.0	<5.0	<5.0	<5.0	**23600**	<10.0	<10.0	<10.0
	MS-32-20		20	2/11/22	µg/m^3	**1.8**	**18.9**	<1.0	<5.0	<1.0	**4.2**	<1.0	<2.0	**21.7**	**99.8**	<2.0	<2.0	**1.5**	<1.0	**2.4**	**11.4**	<1.0	**2.9**	**1.5**	<1.0	**31.9**	**12.5**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
	MS-32-20-REP	X	20	2/11/22	µg/m^3	**2**	**16.9**	<1.0	<5.0	<1.0	**3.9**	<1.0	<2.0	**23.7**	**87.4**	<2.0	<2.0	**1.4**	<1.0	**2.1**	**12.1**	<1.0	**3.2**	**1.6**	<1.0	**29.5**	**11.9**	<5.0	<5.0	<5.0	<5.0	<50	<10.0	<10.0	<10.0
SS-4	SS-4-5		5	8/27/21	µg/m^3	<2.0	**54.2**	<2.0	<2.0	<2.0	**4.1**	<4.0	<1.0	**239**	**28.5**	<10.0	<10.0	**224**	<4.0	<5.0	<5.0	<2.0	**16.9**	**5.5**	<0.5	**31.7**	**10.3**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-4-10		10	8/27/21	µg/m^3	<2.0	**26.9**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**329**	**9.8**	<10.0	<10.0	**356**	<4.0	**8.0**	**3.6**	<2.0	**8.2**	**2.9**	<0.5	**19.9**	**6.9**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-4-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**479**	<5.0	<10.0	<10.0	**820**	<4.0	**37.0**	**11.6**	<2.0	<2.0	<2.0	<0.5	**13.1**	**2.6**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
SS-5	SS-5-5		5	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**38.8**	<5.0	<10.0	<10.0	**21.8**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**6.4**	**3.6**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-5-5-REP	X	5	8/27/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**38.7**	<5.0	<10.0	<10.0	**23.2**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	**4.8**	**3.2**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-5-10		10	8/27/21	µg/m^3	<2.0	**34.3**	<2.0	<2.0	**3.8**	**10.2**	<4.0	<1.0	**41.8**	**49.1**	<10.0	<10.0	**26.2**	<4.0	<5.0	<5.0	<2.0	**15.3**	**6.4**	<0.5	**130**	**50.4**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-5-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-6	SS-6-5		5	8/27/21	µg/m^3	<2.0	**30.4**	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**17.1**	<5.0	<10.0	<10.0	**14.6**	<4.0	<5.0	<5.0	<2.0	**13.9**	**4.6**	<0.5	**12.0**	**4.5**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-6-10		10	8/27/21	µg/m^3	<2.0	**168**	<2.0	<2.0	**9.1**	**4.2**	<4.0	<1.0	**44.4**	**26.8**	<10.0	<10.0	**46.3**	<4.0	<5.0	<5.0	<2.0	**58.7**	**21.4**	<0.5	**89.7**	**28.5**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-6-20		20	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**165**	<5.0	<10.0	<10.0	**213**	<4.0	**4.9**	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
SS-7	SS-7-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**34.4**	<5.0	<10.0	<10.0	**31.0**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**165000**	**34900**	**25700**
	SS-7-5-RERUN		5	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**30.2**	<5.0	<10.0	<10.0	**21.7**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-7-10		10	8/31/21	µg/m^3	<2.0	**25.9**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**56.5**	<5.0	<10.0	<10.0	**79.2**	<4.0	<5.0	<5.0	<2.0	**14.6**	**3.6**	<0.5	**2.8**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-7-20		20	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**188**	<5.0	<10.0	<10.0	**253**	<4.0	**5.8**	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
SS-8	SS-8-5		5	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-8-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-8-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-9	SS-9-5		5	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-9-10		10	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-9-20		20	NS	µg/m^3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 7
RFI Soil Vapor Analytical Results - Volatile Organic Compounds (VOCs)

Location or Boring ID	Field Sample ID	Duplicate	Sample Depth in feet below ground surface	Sample Date	Units	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane (Freon-11)	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	Methyl tert butyl ether (MTBE)	Ethyl-tert-butyl ether	Di-isopropylether	tert-amyl methyl ether	tert-Butyl alcohol	n-Pentane (Tracer Gas)	n-Hexane (Tracer Gas)	n-Heptane (Tracer Gas)
Commercial/Industrial Screening Levels for Comparison																																			
DTSC-SL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						--	--	24,000	--	--	7.8E+06	--	--	4,000	2.6E+06	28,000	3,400	8.8E+06	--	--	1.1E+07	3.2	--	--	320	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.0005[1]) [µg/m^3]						3.6E+06	--	2.4E+06	720	8.8E+06	8.8E+06	3,400	420	94,000	4.4E+07	--	17,600	4.4E+07	1,540	6,000	--	2,600	520,000	520,000	5,600	880,000	880,000	94,000	300,000	6.2E+06	--	4.4E+07	8.8E+06	6.2E+06	3.6E+06
DTSC-SL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						--	--	12,000	--	--	3.9E+06	--	--	2,000	1.3E+06	14,000	1,700	4.4E+06	--	--	5.3E+06	2	--	--	160	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.001[2]) [µg/m^3]						1.8E+06	--	1.2E+06	360	4.4E+06	4.4E+06	1,700	210	47,000	2.2E+07	--	8,800	2.2E+07	770	3,000	--	1,300	260,000	260,000	2,800	440,000	440,000	47,000	150,000	3.1E+06	--	2.2E+07	4.4E+06	3.1E+06	1.8E+06
DTSC-SL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						--	--	400	--	--	130,000	--	--	67	43,333	467	57	146,667	--	--	176,667	0.053	--	--	5	--	--	--	--	--	--	--	--	--	--
EPA RSL - Soil Vapor (default AF 0.03[3]) [µg/m^3]						60,000	--	40,000	12	146,667	146,667	57	7	1,567	733,333	--	293	733,333	26	100	--	43	8,667	8,667	93	14,667	14,667	1,567	5,000	103,333	--	733,333	146,667	103,333	60,000
SS-10 & SS-10R	SS-10-5		5	8/27/21	µg/m^3	<2.0	**2.4**	<2.0	**5.5**	<2.0	<2.0	<4.0	<1.0	**66.2**	**7.6**	<10.0	<10.0	**33.3**	<4.0	<5.0	<5.0	<2.0	**10.2**	**3.1**	<0.5	**108**	**54.5**	<5.0	<5.0	<5.0	<5.0	**138**	<5.0	<5.0	<5.0
	SS-10R-5		5	4/4/22	µg/m^3	<2.0	**9.9**	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	**32.4**	**12.5**	<10.0	<10.0	**28.5**	<2.0	**13.1**	**7.8**	<2.0	<2.0	<2.0	<0.5	**19.1**	**7.7**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
	SS-10-10		10	8/27/21	µg/m^3	<2.0	**11.3**	<2.0	**17.3**	**2.1**	<2.0	<4.0	<1.0	**63.8**	**7.4**	<10.0	<10.0	**36.5**	<4.0	<5.0	<5.0	<2.0	**28.7**	**8.2**	<0.5	**187**	**96.2**	<5.0	<5.0	<5.0	<5.0	**112**	<5.0	<5.0	<5.0
	SS-10-20		20	9/1/21	µg/m^3	**8.7**	<2.0	<20.0	<2.0	**4.2**	<2.0	<4.0	<1.0	**85.2**	**9.4**	<10.0	<10.0	**99.4**	<4.0	<5.0	**8.5**	<2.0	**3.3**	**3.2**	<0.5	**816**	**159**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-10R-20		20	4/4/22	µg/m^3	<2.0	**5.1**	<2.0	<2.0	<2.0	**7.8**	<1.0	<1.0	**76.0**	**6.6**	<10.0	<10.0	**67.0**	<2.0	**6.5**	**9.3**	<2.0	<2.0	<2.0	<0.5	**95.7**	**34.8**	<5.0	<5.0	<5.0	<5.0	<25.0	<50	<50	<50
SS-11	SS-11-5		5	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**64.4**	**5.0**	<10.0	<10.0	**32.9**	<4.0	<5.0	**6.5**	<2.0	**2.6**	<2.0	<0.5	**3.2**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-11-10		10	8/31/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**88.1**	<5.0	<10.0	<10.0	**48.8**	<4.0	<5.0	**8.4**	<2.0	**2.5**	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-11-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**42.8**	<5.0	<10.0	<10.0	**53.9**	<4.0	<5.0	**11.2**	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
SS-12	SS-12-5		5	8/31/21	µg/m^3	<2.0	**3.8**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**34.3**	<5.0	<10.0	<10.0	**20.8**	<4.0	<5.0	<5.0	<2.0	**3.4**	<2.0	<0.5	**2.0**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**125000**	**25900**	**18900**
	SS-12-5-RERUN		5	9/3/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**45.4**	<5.0	<10.0	<10.0	**34.8**	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**266**	**300**	**229**
	SS-12-5R		5	10/18/21	µg/m^3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<1.0	**30.9**	**5.7**	<10.0	<10.0	**23.4**	<4.0	<5.0	**10.8**	<2.0	<2.0	<2.0	<0.5	**96.4**	**43.4**	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-12-10		10	8/31/21	µg/m^3	<2.0	**7.1**	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**110**	<5.0	<10.0	<10.0	**121**	<4.0	<5.0	**6.8**	<2.0	**7.6**	<2.0	<0.5	**2.4**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	SS-12-20		20	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	**220**	<5.0	<10.0	<10.0	**345**	<4.0	**8.4**	**18.3**	<2.0	<2.0	<2.0	<0.5	**8.8**	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
AOI 36 - Former Hazardous Waste Area																																			
F36-1	F36-1-5		5	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	F36-1-10		10	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
F36-2	F36-2-5		5	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	F36-2-10		10	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
F36-3	F36-3-5		5	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0
	F36-3-10		10	9/1/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**1340**	**6040**	**8630**
	F36-3-10		10	9/17/21	µg/m^3	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<4.0	<1.0	<5.0	<5.0	<10.0	<10.0	<2.0	<4.0	<5.0	<5.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<100	**129**	**136**	**58.5**

Notes:

Bold: Reported chemical concentration in micrograms per cubic meter (µg/m^3)

<: Not detected at or above the indicated Reporting Limit (RL)

-- : No published value or not analyzed

* : Dilution required for this compound

NS: Not sampled

DTSC-SL: Department of Toxic Substances Control-modified screening level (May 2022)

EPA RSL: United States Environmental Protection Agency Regional Screening Level (May 2023)

AF: Attenuation Factor (see Notes 1 and 2 for additional information)

8260B: VOC Analytical Method

Calculated commercial screening values for soil vapor using the default AFs listed (for DTSC SL, the lower of the cancer or non-cancer level was used)

Concentration exceeds the commercial soil vapor screening level after application of the most conservative default soil vapor AF 0.03

Concentration exceeds the commercial soil vapor screening level after application of default soil vapor AF 0.001

Tracer gas concentration was detected in soil vapor sample (results may not be representative of subsurface conditions due to ambient air intrusion in sample)

1 : Default AF of 0.001 for soil vapor in future commercial settings is in accordance with the DTSC Final Vapor Intrusion Guidance document (October 2011)

2 : Default AF of 0.001 for soil vapor in existing commercial settings is in accordance with the DTSC Final Vapor Intrusion Guidance document (October 2011)

3 : Default AF of 0.03 for soil vapor in accordance with the Final Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion from DTSC and California Water Resources Control Board (February 2023)

Table 7A
Summary of Temporal Variation Assessment in Soil Vapor

Location or Boring ID	Field Sample ID	Sample Depth in feet below ground surface	Sample Date	Units	Average RPD (Per Sample Set)	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chloroform	Dibromochloromethane	Dichlorodifluoromethane (Freon-12)	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Ethylbenzene	Freon-113	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene (PCE)	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane (Freon-11)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	tert-Butyl alcohol
Commercial/Industrial Screening Levels for Comparison																																					
DTSC-SL - Commercial Soil Vapor (default AF of 0.001[1]) [ug/m3]						420	--	--	--	--	--	580	--	--	--	310,000	35,000	--	--	--	--	12,000	--	--	3,900,000	2,000	1,300,000	4,400,000	--	--	5,300,000	--	--	160	--	--	--
EPA RSL - Commercial Soil Vapor (default AF of 0.001[1]) [ug/m3]						1,600	260,000	330	11,000	2,000	530	--	440,000	7,700	470	880,000	--	4,900	22,000,000	1,800,000	--	1,200,000	360	4,400,000	4,400,000	47,000	22,000,000	22,000,000	770	3,000	--	260,000	260,000	2,800	440,000	440,000	22,000,000
DTSC-SL - Commercial Soil Vapor (default AF of 0.03[2]) [ug/m3]						14	--	--	--	--	--	19	--	--	--	10,333	1,167	--	--	--	--	400	--	--	130,000	67	43,333	146,667	--	--	176,667	--	--	5	--	--	--
EPA RSL - Commercial Soil Vapor (default AF of 0.03[2]) [ug/m3]						53	8,667	11	367	67	18	--	14,667	257	16	29,333	--	163	733,333	60,000	--	40,000	12	146,667	146,667	1,567	733,333	733,333	26	100	--	8,667	8,667	93	14,667	14,667	733,333
Labortaory RL [ug/m3]						0.5	2.0	2.0	2.0	1.0	2.0	2.0	5.0	1.0	1.0	1.0	1.0	2.0	5.0	2.0	2.0	2.0	2.0	2.0	2.0	5.0	5.0	2.0	4.0	5.0	5.0	2.0	2.0	0.5	2.0	2.0	100.0
5x Laboratory RL [ug/m3]						2.5	10.0	10.0	10.0	5.0	10.0	10.0	25.0	5.0	5.0	5.0	5.0	10.0	25.0	10.0	10.0	10.0	10.0	10.0	10.0	25.0	25.0	10.0	20.0	25.0	25.0	10.0	10.0	2.5	10.0	10.0	500.0
AOI 17 - Maintenance Shop																																					
MS-10 & MS-10R	MS-10-5	5	8/31/21	µg/m3	--	<0.5	<2.0	<2.0	<2.0	**3.2**	**19.3**	<2.0	**5.7**	**12.2**	<1.0	**14.1**	<1.0	<2.0	<5.0	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	**11.2**	<5.0	**8.1**	<4.0	<5.0	<5.0	<2.0	<2.0	<0.5	<2.0	<2.0	<1.0
	MS-10R-5	5	4/4/22	µg/m3	--	**1.9**	<2.0	<2.0	<2.0	**3.3**	**44.8**	<2.0	**14.0**	**15.3**	<1.0	**18.5**	<1.0	**2.7**	<5.0	<2.0	**60.5**	<2.0	<2.0	<2.0	**2.0**	**15.0**	**17.1**	**10.1**	<2.0	<5.0	**37.4**	**7.6**	<2.0	<0.5	**7.5**	**3.3**	<25.0
	RPD	--	--	%	**37.8**	--	--	--	--	--	**79.6**	--	--	**22.5**	--	**27.0**	--	--	--	--	--	--	--	--	--	--	--	**22.0**	--	--	--	--	--	--	--	--	--
	MS-10-20	20	9/1/21	µg/m3		<0.5	<2.0	**13.5**	<2.0	**22.8**	**185**	<2.0	**13.1**	**180**	**8.3**	**285**	<1.0	<2.0	**6.5**	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	**66.0**	<5.0	**44.9**	<4.0	**9.6**	**6.1**	<2.0	<2.0	<0.5	<2.0	<2.0	<1.0
	MS-10R-20	20	4/4/22	µg/m3		**1.8**	<2.0	**11.4**	<2.0	**27.7**	**175**	<2.0	**20.9**	**154**	**10.9**	**232**	<1.0	**2.8**	<5.0	<2.0	**10.0**	<2.0	<2.0	<2.0	<2.0	**57.5**	**25.5**	**43.0**	<2.0	**9.0**	**46.1**	<2.0	<2.0	<0.5	**7.5**	**2.7**	<25.0
	RPD	--	--	%	**15.4**	--	--	**16.9**	--	**19.4**	**5.6**	--	--	**15.6**	**27.1**	**20.5**	--	--	--	--	--	--	--	--	--	**13.8**	--	**4.3**	--	--	--	--	--	--	--	--	--
MS-13 MS-13B & MS-13R	MS-13-5	5	8/31/21	µg/m3		**0.7**	<2.0	<2.0	<2.0	**7.6**	**68.2**	<2.0	**10.6**	**11.5**	<1.0	**46.5**	<1.0	<2.0	<5.0	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	**32.3**	<5.0	**23.8**	<4.0	<5.0	**11.6**	<2.0	<2.0	<0.5	**2.4**	<2.0	<100
	MS-13R-5	5	4/4/22	µg/m3		**16.2**	<2.0	<2.0	<2.0	**7.1**	**66.4**	<2.0	**21.1**	**16.4**	<1.0	**55.5**	<1.0	**23.6**	<5.0	**3.0**	**26.6**	<2.0	<2.0	<2.0	**8.7**	**25.7**	**41.8**	**24.6**	<2.0	<5.0	**364**	<2.0	<2.0	<0.5	**104**	**36.9**	<25.0
	RPD	--	--	%	**14.7**	--	--	--	--	**6.8**	**2.7**	--	--	**35.1**	--	**17.6**	--	--	--	--	--	--	--	--	--	**22.8**	--	**3.3**	--	--	--	--	--	--	--	--	--
	MS-13-20	20	9/1/21	µg/m3		**1.2**	<2.0	**2.5**	<2.0	**51.5**	**640**	<2.0	**26.2**	**255**	**3.4**	**501**	<1.0	**3.0**	<5.0	<2.0	**3.3**	<20.0	<2.0	<2.0	<2.0	**95.6**	**10.7**	**87.3**	<4.0	**11.6**	**31.4**	**5.3**	<2.0	<0.5	**5.8**	<2.0	<100
	MS-13R-20	20	4/4/22	µg/m3		**4.2**	<2.0	**3.8**	<2.0	**41.7**	**454**	<2.0	**38.4**	**219**	**3.7**	**385**	<1.0	**4.6**	<5.0	**3.2**	**13.2**	<2.0	<2.0	<2.0	**2.1**	**76.7**	**16.3**	**81.7**	<2.0	**20.1**	**192**	**3.2**	<2.0	<0.5	**19.5**	**6.9**	<25.0
	RPD	--	--	%	**38.3**	--	--	--	--	**21.0**	**34.0**	--	**37.8**	**15.2**	--	**26.2**	--	--	--	--	--	--	--	--	--	**21.9**	--	**6.6**	--	--	**143.8**	--	--	--	--	--	--
	MS-13B-50	50	9/3/21	µg/m3		**3.8**	<2.0	**2.2**	<2.0	**65.6**	**668**	<2.0	**26.1**	**343**	**23.4**	**555**	<1.0	**2.6**	<5.0	<2.0	<2.0	<20.0	<2.0	<2.0	**2.6**	**19.9**	**51.5**	**74.2**	<4.0	**9.2**	**34.7**	**2.4**	<2.0	<0.5	**10.2**	<2.0	**792**
	MS-13R-46	46	4/4/22	µg/m3		**2.3**	<2.0	**3.6**	<2.0	**100**	**732**	<2.0	**54.8**	**406**	**23.2**	**665**	<1.0	<2.0	**5.7**	<2.0	**8.0**	<2.0	<2.0	<2.0	<2.0	**122**	**6.6**	**110**	**3.9**	**17.2**	**99.2**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**48.5**	--	--	--	--	**41.5**	**9.1**	--	**71.0**	**16.8**	**0.9**	**18.0**	--	--	--	--	--	--	--	--	--	**143.9**	--	**38.9**	--	--	**96.3**	--	--	--	--	--	--
MS-17 MS-17B & MS-17R	MS-17-5	5	8/27/21	µg/m3		**0.8**	<2.0	<2.0	<2.0	<1.0	**13.6**	<2.0	**7.9**	**1950**	<1.0	**125**	<1.0	**2.9**	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**1570**	<5.0	**2470**	<4.0	**55.1**	<5.0	**2.4**	<2.0	<0.5	**13.0**	**5.4**	<100
	MS-17R-5	5	4/4/22	µg/m3		**0.8**	<2.0	<2.0	<2.0	<1.0	**39.3**	<2.0	**15.0**	**1120**	<1.0	**98.3**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**1060**	<5.0	**1450**	**34.6**	**34.7**	**72.5**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**51.9**	--	--	--	--	--	**97.2**	--	--	**54.1**	--	**23.9**	--	--	--	--	--	--	--	--	--	**38.8**	--	**52.0**	--	**45.4**	--	--	--	--	--	--	--
	MS-17-20	20	8/27/21	µg/m3		<0.5	<2.0	<2.0	<2.0	**13.2**	**88.4**	<2.0	**18.5**	**3290**	**3.5**	**482**	**6.5**	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**1280**	<5.0	**2870**	**4.3**	**194**	**9.3**	<2.0	<2.0	<0.5	**2.6**	<2.0	<100
	MS-17R-20	20	4/4/22	µg/m3		**1.1**	<2.0	<2.0	<2.0	**12.3**	**130**	<2.0	**30.8**	**2950**	**5.1**	**525**	**5.1**	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**1210**	<5.0	**2210**	**4.6**	**139**	**30.3**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**19.2**	--	--	--	--	**7.1**	**38.1**	--	--	**10.9**	--	**8.5**	**24.1**	--	--	--	--	--	--	--	--	**5.6**	--	**26.0**	--	**33.0**	--	--	--	--	--	--	--
	MS-17B-40	40	9/3/21	µg/m3		**4.2**	<2.0	<2.0	<2.0	<1.0	**122**	<2.0	**13.4**	**1830**	**7.5**	**587**	**2.6**	**3.2**	<5.0	<2.0	<2.0	<20.0	<2.0	<2.0	**2.5**	**234**	**46.0**	**1260**	**4.3**	**58.8**	**12.1**	**2.1**	<2.0	<0.5	**10.8**	**2.2**	<100
	MS-17R-40	40	4/4/22	µg/m3		**7.4**	<2.0	<2.0	<2.0	**17.4**	**162**	<2.0	**31.3**	**1570**	**11.4**	**596**	<1.0	**2.7**	**5.5**	<2.0	<2.0	<2.0	<2.0	<2.0	**2.3**	**454**	**14.8**	**1030**	**5.2**	**54.9**	**25.5**	<2.0	<2.0	<0.5	<5.0	**2.2**	<25.0
	RPD	--	--	%	**32.1**	**55.2**	--	--	--	--	**28.2**	--	**80.1**	**15.3**	**41.3**	**1.5**	--	--	--	--	--	--	--	--	**8.3**	**64.0**	--	**20.1**	--	**6.9**	--	--	--	--	--	--	--
MS-21 & MS-21R	MS-21-5R	5	10/18/21	µg/m3		<0.5	<2.0	<2.0	<2.0	**1.9**	**55**	<2.0	**12.4**	**2.3**	<1.0	**2.5**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**14.5**	<5.0	**8.1**	<4.0	<5.0	**29.5**	<2.0	<2.0	<0.5	<2.0	<2.0	<100
	MS-21R-5	5	4/4/22	µg/m3		<0.5	<2.0	<2.0	<2.0	**8.1**	**199**	<2.0	**24.0**	**10.1**	<1.0	**18.9**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**18.6**	<5.0	**9.8**	<2.0	<5.0	**74.1**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**99.7**	--	--	--	--	--	**113.4**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**86.1**	--	--	--	--	--	--
	MS-21-20	20	9/17/21	µg/m3		**0.6**	<2.0	**4.8**	<2.0	**22.9**	**787**	<2.0	**22.5**	**44.6**	<1.0	**132**	<1.0	<2.0	**2.6**	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	**30.1**	**4.8**	**16.3**	<4.0	**2.8**	**31.9**	<2.0	<2.0	<0.5	<2.0	<2.0	<1.0
	MS-21R-20	20	4/4/22	µg/m3		<0.5	<2.0	**5.2**	<2.0	**31.1**	**770**	<2.0	**44.1**	**69.4**	<1.0	**183**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**37.7**	<5.0	**21.3**	<2.0	<5.0	**82.9**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**35.2**	--	--	--	--	**30.4**	**2.2**	--	--	**43.5**	--	**32.4**	--	--	--	--	--	--	--	--	--	**22.4**	--	**26.6**	--	--	**88.9**	--	--	--	--	--	--
MS-23B	MS-23B-40	40	11/8/21	µg/m3		**3.6**	<2.0	**15.4**	**5.9**	**38.4**	**975**	**12.4**	**26.7**	**84.7**	<1.0	**263**	<1.0	<2.0	<5.0	<2.0	**13.2**	<20.0	<2.0	<2.0	<2.0	**35.9**	**13.3**	**20.5**	<4.0	<5.0	**75.3**	**15.1**	<2.0	<0.5	**3.8**	<2.0	<100
	MS-23B-40	40	4/4/22	µg/m3		**0.6**	<2.0	**12.0**	**5.5**	**54.7**	**1210**	**7.5**	**67.0**	**104**	<1.0	**271**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**46.3**	<5.0	**25.6**	<2.0	**5.5**	**108**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**30.4**	--	--	**24.8**	--	**35.0**	**21.5**	--	**86.0**	**20.5**	--	**3.0**	--	--	--	--	--	--	--	--	--	**25.3**	--	**22.1**	--	--	**35.7**	--	--	--	--	--	--
	MS-23B-100	100	11/8/21	µg/m3		**5.3**	<2.0	**17.8**	**2.1**	**444**	**1840**	**4.8**	**87.4**	**363**	**12.2**	**725**	<1.0	**2.9**	<5.0	<2.0	**2.0**	<20.0	<2.0	<2.0	**3.7**	**66.2**	**17.6**	**15.9**	<4.0	**18.8**	**329**	**3.3**	<2.0	<0.5	**8.3**	**2.4**	<100
	MS-23B-100	100	4/4/22	µg/m3		**1.1**	<2.0	**23.0**	**7.1**	**470**	**1790**	**13.6**	**192**	**341**	**10.1**	**651**	<1.0	<2.0	<5.0	<2.0	<2.0	**2.8**	<2.0	<2.0	<2.0	**66.0**	<5.0	**16.5**	<2.0	**15.6**	**386**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**16.5**	--	--	**25.5**	--	**5.7**	**2.8**	--	**74.9**	**6.3**	**18.8**	**10.8**	--	--	--	--	--	--	--	--	--	**0.3**	--	**3.7**	--	--	**15.9**	--	--	--	--	--	--
MS-23C	MS-23C-150	150	1/12/22	ug/m3		**8.6**	<1.0	**32.8**	<1.0	**1450**	**1230**	**5.0**	**96.8**	**259**	<1.0	**534**	<1.0	**4.3**	**4.6**	<1.0	**15**	**8.6**	<5.0	**1.3**	**3.6**	**58.7**	**29.6**	<1.0	<1.0	**16.4**	**340**	**3.7**	**1.4**	<1.0	**9.0**	**3.5**	<50
	MS-23C-150	150	4/4/22	ug/m3		**7.3**	<2.0	**77.4**	**3.0**	**2650**	**1900**	**17.2**	**243**	**362**	**6.1**	**736**	<1.0	**3.5**	**6.2**	<2.0	<2.0	**6.7**	<2.0	<2.0	<2.0	**109**	**24.0**	**4.4**	<2.0	**21.8**	**429**	<2.0	<2.0	**1.1**	<5.0	<2.0	<25.0
	RPD	--	--	%	**48.1**	**16.4**	--	**80.9**	--	**58.5**	**42.8**	--	**86.1**	**33.2**	--	**31.8**	--	--	--	--	--	--	--	--	--	**60.0**	--	--	--	--	**23.1**	--	--	--	--	--	--
	MS-23C-200	200	1/12/22	µg/m3		**13.8**	<1.0	**9.9**	<1.0	**4270**	**1130**	<1.0	**63.1**	**493**	**17.1**	**860**	<1.0	**5.4**	**8.3**	<1.0	**4.3**	**27.2**	<5.0	**1.6**	**4.9**	**196**	**25.1**	<1.0	<1.0	**42.3**	**94.6**	**3.5**	**1.2**	<1.0	**10.8**	**3.6**	<50
	MS-23C-200	200	4/4/22	µg/m3		**4.8**	<2.0	**59.4**	**3.1**	**4920**	**1370**	**13.7**	**144**	**451**	**14.0**	**899**	**2.1**	**2.1**	**8.8**	<2.0	<2.0	**22.0**	<2.0	<2.0	<2.0	**197**	**13.5**	**1.2**	<2.0	**41.5**	**119**	<2.0	<2.0	**2.4**	<5.0	<2.0	<25.0
	RPD	--	--	%	**26.2**	**96.8**	--	--	--	**14.1**	**19.2**	--	**78.1**	**8.9**	**19.9**	**4.4**	--	--	--	--	--	**21.1**	--	--	--	**0.5**	--	--	--	**1.9**	**22.8**	--	--	--	--	--	--

Table 7A
Summary of Temporal Variation Assessment in Soil Vapor

Location or Boring ID	Field Sample ID	Sample Depth in feet below ground surface	Sample Date	Units	Average RPD (Per Sample Set)	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chloroform	Dibromochloromethane	Dichlorodifluoromethane (Freon-12)	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Ethylbenzene	Freon-113	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene (PCE)	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane (Freon-11)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	tert-Butyl alcohol
Commercial/Industrial Screening Levels for Comparison																																					
DTSC-SL - Commercial Soil Vapor (default AF of 0.001[1]) [ug/m3]						420	--	--	--	--	--	580	--	--	--	310,000	35,000	--	--	--	--	12,000	--	--	3,900,000	2,000	1,300,000	4,400,000	--	--	5,300,000	--	--	160	--	--	--
EPA RSL - Commercial Soil Vapor (default AF of 0.001[1]) [ug/m3]						1,600	260,000	330	11,000	2,000	530	--	440,000	7,700	470	880,000	--	4,900	22,000,000	1,800,000	--	1,200,000	360	4,400,000	4,400,000	47,000	22,000,000	22,000,000	770	3,000	--	260,000	260,000	2,800	440,000	440,000	22,000,000
DTSC-SL - Commercial Soil Vapor (default AF of 0.03[2]) [ug/m3]						14	--	--	--	--	--	19	--	--	--	10,333	1,167	--	--	--	--	400	--	--	130,000	67	43,333	146,667	--	--	176,667	--	--	5	--	--	--
EPA RSL - Commercial Soil Vapor (default AF of 0.03[2]) [ug/m3]						53	8,667	11	367	67	18	--	14,667	257	16	29,333	--	163	733,333	60,000	--	40,000	12	146,667	146,667	1,567	733,333	733,333	26	100	--	8,667	8,667	93	14,667	14,667	733,333
Labortaory RL [ug/m3]						0.5	2.0	2.0	2.0	1.0	2.0	2.0	5.0	1.0	1.0	1.0	1.0	2.0	5.0	2.0	2.0	2.0	2.0	2.0	2.0	5.0	5.0	2.0	4.0	5.0	5.0	2.0	2.0	0.5	2.0	2.0	100.0
5x Laboratory RL [ug/m3]						2.5	10.0	10.0	10.0	5.0	10.0	10.0	25.0	5.0	5.0	5.0	5.0	10.0	25.0	10.0	10.0	10.0	10.0	10.0	10.0	25.0	25.0	10.0	20.0	25.0	25.0	10.0	10.0	2.5	10.0	10.0	500.0
AOI 17 - Maintenance Shop																																					
MS-26 & MS-26R	MS-26-5	5	10/18/21	ug/m3		<0.5	<2.0	<2.0	<2.0	**2.8**	**4.0**	<2.0	**16.2**	<1.0	<1.0	**1.1**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	**5.6**	**12.3**	<4.0	<5.0	**38.8**	<2.0	<2.0	<0.5	<2.0	<2.0	<100
	MS-26R-5	5	4/4/22	ug/m3		**1.2**	<2.0	<2.0	<2.0	**4.4**	**4.1**	<2.0	**34.3**	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<2.0	**2.9**	<2.0	<2.0	<2.0	<2.0	**7.5**	<5.0	**7.7**	<2.0	**5.8**	**45.2**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**29.8**	--	--	--	--	**44.4**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**15.2**	--	--	--	--	--	--
	MS-26-20	20	10/18/21	ug/m3		**1.8**	<2.0	**3.7**	<2.0	**81.9**	**114**	<2.0	**30**	**1.1**	<1.0	**39.8**	<1.0	<2.0	<5.0	<2.0	**3.2**	<2.0	<2.0	<2.0	<2.0	**11.6**	**10.1**	**7.8**	<4.0	<5.0	**89.2**	**2.6**	<2.0	<0.5	**2.9**	<2.0	<100
	MS-26R-20	20	4/4/22	ug/m3		**1.0**	<2.0	**3.6**	<2.0	**84.4**	**88.6**	<2.0	**50.3**	<1.0	<1.0	**32.2**	<1.0	<2.0	<5.0	<2.0	**6.9**	<2.0	<2.0	<2.0	<2.0	**9.8**	**5.0**	**4.8**	<2.0	<5.0	**77.2**	<2.0	<2.0	<0.5	**6.6**	**4.5**	<25.0
	RPD	--	--	%	**22.8**	--	--	--	--	**3.0**	**25.1**	--	**50.6**	--	--	**21.1**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**14.4**	--	--	--	--	--	--
MS-29	MS-29-5	5	2/11/22	ug/m3		**1.5**	<1.0	**3.4**	**1.7**	**3.1**	**8.6**	**2.7**	**5**	**1.1**	<1.0	**8.5**	<1.0	**3.2**	<2.0	<1.0	**10.2**	<1.0	<5.0	<1.0	<1.0	**5.7**	**7.4**	<1.0	<1.0	<1.0	**51.2**	**7.2**	**1.3**	<1.0	**12.1**	**4.1**	<50
	MS-29-5	5	4/4/22	ug/m3		<0.5	<2.0	<2.0	<2.0	**5.6**	**8.3**	<2.0	**13.6**	**2.5**	<1.0	**15.2**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**9.5**	<5.0	<2.0	<2.0	<5.0	**133**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**72.7**	--	--	--	--	--	--	--	--	--	--	**56.5**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**88.8**	--	--	--	--	--	--
	MS-29-20	20	2/11/22	ug/m3		**19**	<1.0	**2.8**	<1.0	**22.6**	**123**	<1.0	**8.9**	**50.4**	<1.0	**155**	<1.0	**9.0**	<2.0	<1.0	<1.0	<1.0	<5.0	**1.8**	<1.0	**10.3**	**44.5**	**3.7**	<1.0	**4.7**	**11,900***	**5.9**	**2**	<1.0	**36.3**	**9.1**	<50
	MS-29-20	20	4/4/22	ug/m3		**NO FLOW - NOT SAMPLED**																																	
	RPD	--	--	%	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MS-30	MS-30-5	5	2/11/22	ug/m3		<1.0	<1.0	**1.2**	<1.0	**6.5**	**3.1**	**1.1**	**8.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	**3.2**	<1.0	<1.0	<1.0	**1.1**	**14.4**	<1.0	<1.0	<1.0	<2.0	<1.0	<50
	MS-30-5	5	4/4/22	ug/m3		<0.5	<2.0	<2.0	<2.0	**5.9**	<2.0	<2.0	**17.3**	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**8.4**	<5.0	<2.0	<2.0	<5.0	**13.6**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**9.7**	--	--	--	--	**9.7**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MS-30-20	20	2/11/22	ug/m3		<1.0	<1.0	**3.9**	<1.0	**39.9**	**33.7**	<1.0	**21.9**	<1.0	<1.0	**24.5**	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	**9.0**	**2.2**	<1.0	<1.0	**1.4**	**59.8**	<1.0	<1.0	<1.0	<2.0	<1.0	<50
	MS-30-20	20	4/4/22	ug/m3		<0.5	<2.0	**3.5**	<2.0	**42.7**	**30.5**	<2.0	**44.1**	<1.0	<1.0	**28.6**	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**10.9**	**3.8**	<2.0	<2.0	<5.0	**70.0**	<2.0	<2.0	<0.5	<5.0	<2.0	<25.0
	RPD	--	--	%	**12.0**	--	--	--	--	**6.8**	**10.0**	--	--	--	--	**15.4**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**15.7**	--	--	--	--	--	--
SS-10 & SS-10R	SS-10-5	5	8/27/21	ug/m3		**1.3**	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	**9.1**	<1.0	<1.0	**2.3**	<1.0	**19.4**	<5.0	<2.0	**2.4**	<2.0	**5.5**	<2.0	<2.0	**66.2**	**7.6**	**33.3**	<4.0	<5.0	<5.0	**10.2**	**3.1**	<0.5	**108**	**54.5**	**138**
	SS-10R-5	5	4/4/22	ug/m3		**3.9**	<2.0	<2.0	<2.0	<1.0	**3.5**	<2.0	**14.8**	<1.0	<1.0	**4.1**	<1.0	**3.8**	<5.0	<2.0	**9.9**	<2.0	<2.0	<2.0	<2.0	**32.4**	**12.5**	**28.5**	<2.0	**13.1**	**7.8**	<2.0	<2.0	<0.5	**19.1**	**7.7**	<25.0
	RPD	--	--	%	**74.7**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**68.6**	--	**15.5**	--	--	--	--	--	--	--	**139.9**	--	--
	SS-10-20	20	9/1/21	ug/m3		**2.2**	<2.0	<2.0	<2.0	**1.5**	**17.5**	<2.0	**12.0**	**72.2**	<1.0	**85.6**	<1.0	**319**	**6.2**	**8.7**	<2.0	<20.0	<2.0	**4.2**	<2.0	**85.2**	**9.4**	**99.4**	<4.0	<5.0	**8.5**	**3.3**	**3.2**	<0.5	**816**	**159**	<100
	SS-10R-20	20	4/4/22	ug/m3		**1.9**	<2.0	<2.0	<2.0	**2.4**	**16.9**	<2.0	**16.9**	**58.9**	<1.0	**62.4**	<1.0	**15.2**	<5.0	<2.0	**5.1**	<2.0	<2.0	<2.0	**7.8**	**76.0**	**6.6**	**67.0**	<2.0	**6.5**	**9.3**	<2.0	<2.0	<0.5	**95.7**	**34.8**	<25.0
	RPD	--	--	%	**71.7**	--	--	--	--	--	**3.5**	--	--	**20.3**	--	**31.4**	--	**181.8**	--	--	--	--	--	--	--	**11.4**	--	**38.9**	--	--	--	--	--	--	**158.0**	**128.2**	--
	Average RPD (Per Analyte):			***%***	--	***56.1***	--	***37.0***	--	***21.7***	***31.5***	--	***70.6***	***22.7***	***21.6***	***20.6***	***24.1***	***181.8***	--	--	--	***21.1***	--	--	***8.3***	***35.7***	--	***21.5***	--	***21.8***	***53.9***	--	--	--	***149.0***	***128.2***	--

Notes:

Bold: Reported chemical concentration in micrograms per cubic meter ($\mu g/m^3$)

<: Not detected at or above the indicated Reporting Limit (RL)

-- : No published value or not applicable

* : Dilution required for this compound

DTSC-SL: Department of Toxic Substances Control-modified screening level (May 2022)

EPA RSL: United States Environmental Protection Agency Regional Screening Level (May 2023)

AF: Attenuation Factor (see Notes 1 and 2 for additional information)

RPD: Realtive Percent Difference between sample results were calculated for all detected analytes that were greater than five times (5x) the laboratory RL:

$$RPD = \frac{|D_1 - D_2|}{(D_1 + D_2)/2} \times 100$$

where D_1 = Original sample result and D_2 = Resample result in different season

Calculated commercial screening values for soil vapor using the default attenuation factors listed (for DTSC SL, the lower of the cancer or non-cancer level was used)

Typical Reporting Limit (RL) published by analytical laboratory (assuming no dilution necessary)

Concentration exceeds a commercial soil vapor screening level after application of a default AF 0.001

RPD (averaged over a sample pair or for a specific analyte) exceeds 50%

1 : Default AF of 0.001 for soil vapor in existing commercial settings is in accordance with the DTSC Final Vapor Intrusion Guidance document (October 2011)

2 : Default AF of 0.03 for soil vapor in accordance with the Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion from DTSC and California Water Resources Control Board (February 2020)

Table 8
RFI Groundwater Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Depth (feet)	Sample ID	Date	Units	EPA Method 8260																							
						1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone
	California Maximum Contaminant Level (MCL) [January 2023]					--	200	1	1,200	5	5	6	--	--	--	5	--	--	--	600	0.5	5	--	--	--	5	--	--	--	--
RFI Samples																													
17 (Maintenance Shop)	MS-23D	460	MS-23D-GW	09/15/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10
Equipment Rinsate Blanks																													
--	--	--	EB-091522	09/15/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**8.4 J**	<1.0	<10
Trip Blanks																													
--	--	--	TB-091522	09/15/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10
Field Blanks																													
--	--	--	FB-091522	09/15/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10
Reagant Water Samples (Sparkletts Distilled Water)																													
--	--	--	SDW-1	05/26/22	µg/L	<2.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<10	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<10

NOTES:

8.4	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
J	Concentration is below the RL but above the MDL so the result represents an estimated value
<1.0	Denotes analyte not detected above the posted Reporting Limit (RL)
--	Not applicable or no published value
ug/L	Micrograms per liter
80*	80 ug/L represents the MCL for "total trihalomethanes" which includes bromodichloromethane, bromoform, chloroform, and dibromochloromethane.
EPA	United States Environmental Protection Agency

Table 8
RFI Groundwater Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Depth (feet)	Sample ID	Date	Units	EPA Method 8260																								
						4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether (DIPE)	Ethanol	Ethylbenzene	Ethyl-t-butyl ether (ETBE)	Isopropylbenzene	m,p-Xylene
	California Maximum Contaminant Level (MCL) [January 2023]					--	--	--	1	--	--	80*	80*	--	--	0.5	--	--	80*	--	6	--	80*	--	--	--	--	300	--	--	1,750
RFI Samples																														
17 (Maintenance Shop)	MS-23D	460	MS-23D-GW	09/15/22	µg/L	<1.0	<10	**10**	<0.50	<1.0	<2.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<5.0	<1.0	<10	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0
Equipment Rinsate Blanks																														
--	--	--	EB-091522	09/15/22	µg/L	<1.0	<10	<10	<0.50	<1.0	<2.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<5.0	<1.0	<10	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0
Trip Blanks																														
--	--	--	TB-091522	09/15/22	µg/L	<1.0	<10	<10	<0.50	<1.0	<2.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<5.0	<1.0	<10	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0
Field Blanks																														
--	--	--	FB-091522	09/15/22	µg/L	<1.0	<10	<10	<0.50	<1.0	<2.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<5.0	<1.0	<10	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0
Reagant Water Samples (Sparkletts Distilled Water)																														
--	--	--	SDW-1	05/26/22	µg/L	<1.0	<10	<20	<0.50	<1.0	<2.0	<1.0	<5.0	<25	<10	<0.50	<1.0	<5.0	<1.0	<10	<1.0	<0.50	<2.0	<1.0	<5.0	<2.0	<100	<1.0	<2.0	<1.0	<2.0

NOTES:

8.4	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
J	Concentration is below the RL but above the MDL so the result represents an estimated value
<1.0	Denotes analyte not detected above the posted Reporting Limit (RL)
--	Not applicable or no published value
ug/L	Micrograms per liter
80*	80 ug/L represents the MCL for "total trihalomethanes" which includes bromodichloromethane, bromoform, chloroform, and dibromochloromethane.
EPA	United States Environmental Protection Agency

Table 8
RFI Groundwater Analytical Results - Volatile Organic Compounds (VOCs)

AOI Number	Location ID	Depth (feet)	Sample ID	Date	Units	EPA Method 8260																		
						Methylene Chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	p-isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amyl-methyl ether (TAME)	tert-Butyl alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane (Freon 11)	Vinyl acetate	Vinyl chloride
	California Maximum Contaminant Level (MCL) [January 2023]					5	13	--	--	--	1,750	--	--	100	--	--	--	5	150	10	--	5	150	--	0.5
RFI Samples																								
17 (Maintenance Shop)	MS-23D	460	MS-23D-GW	09/15/22	µg/L	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<10	<0.50
Equipment Rinsate Blanks																								
--	--	--	EB-091522	09/15/22	µg/L	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<10	<0.50
Trip Blanks																								
--	--	--	TB-091522	09/15/22	µg/L	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<10	<0.50
Field Blanks																								
--	--	--	FB-091522	09/15/22	µg/L	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<10	<0.50
Reagant Water Samples (Sparkletts Distilled Water)																								
--	--	--	SDW-1	05/26/22	µg/L	<10	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<10	<10	<0.50

NOTES:

8.4	**Bold** value is reported concentration above the laboratory Method Detection Limit (MDL).
J	Concentration is below the RL but above the MDL so the result represents an estimated value
<1.0	Denotes analyte not detected above the posted Reporting Limit (RL)
--	Not applicable or no published value
ug/L	Micrograms per liter
80*	80 ug/L represents the MCL for "total trihalomethanes" which includes bromodichloromethane, bromoform, chloroform, and dibromochloromethane.
EPA	United States Environmental Protection Agency

Table 9
RFI Soil Sample Field Quality Control Results - TPH

Sample Type: / Sample Date		Field Duplicates Results 8/23/2021					Field Duplicate Results 8/23/2021					Field Duplicate Results 8/24/2021					Field Duplicates Results 8/25/2021					Field Duplicate Results 8/26/2021				
Carbon Range	**Units**	**RL**	**PT2-3-0.5**	**RL**	**Duplicate PT2-103-0.5**	**RPD (%)**	**RL**	**SS-8-2.5**	**RL**	**Duplicate SS-108-2.5**	**RPD (%)**	**RL**	**MS-16-0.5**	**RL**	**Duplicate MS-116-0.5**	**RPD (%)**	**RL**	**SS-11-5**	**RL**	**Duplicate SS-111-5**	**RPD (%)**	**RL**	**F11-1-0.5**	**RL**	**Duplicate F11-101-0.5**	**RPD (%)**
C13-C22	mg/kg	4.9	<4.9	4.9	**7.8**	--	120	<120	4.9	<4.9	--	99	<99	100	<100	--	4.9	**8.2**	4.9	<4.9	--	4.8	**7.8**	4.9	**5.7**	--
C23-C32	mg/kg	4.9	**5.3**	4.9	**64**	--	120	<120	4.9	<4.9	--	99	**1600**	100	**910**	**55%**	4.9	**9.5**	4.9	**5.4**	--	4.8	**20**	4.9	**18**	--
C4-C12	mg/kg	0.095	<0.095	0.098	<0.098	--	0.085	<0.085	0.081	<0.081	--	0.10	<0.10	0.090	<0.090	--	0.10	<0.10	0.13	<0.13	--	--	--	--	--	--

Sample Type: / Sample Date		Field Duplicate Results 8/26/2021					Field Duplicate Results 8/26/2021					Field Duplicate Results 8/27/2021					Field Duplicate Results 8/27/2021					Field Duplicate Results 8/31/2021				
Carbon Range	**Units**	**RL**	**F11-10-0.5**	**RL**	**Duplicate F11-110-0.5**	**RPD (%)**	**RL**	**MS-13-2.5**	**RL**	**Duplicate MS-113-2.5**	**RPD (%)**	**RL**	**DT-1-2.5**	**RL**	**Duplicate DT-101-2.5**	**RPD (%)**	**RL**	**DT-4-10**	**RL**	**Duplicate DT-104-10**	**RPD (%)**	**RL**	**F11-5-0.5**	**RL**	**Duplicate F11-105-0.5**	**RPD (%)**
C13-C22	mg/kg	5.0	**15**	5.0	**9.6**	--	25	**20 J**	4.9	<4.9	--	5.0	<5.0	4.9	**7.9**	--	5.0	**6.2**	4.9	**6.8**	--	4.8	**11**	4.8	**11**	--
C23-C32	mg/kg	5.0	**62**	5.0	**29**	--	25	**170**	4.9	<4.9	--	5.0	**4.7 J**	4.9	**6.1**	--	5.0	**4.6 J**	4.9	**5.1**	--	4.8	**11**	4.8	**13**	--
C4-C12	mg/kg	--	--	--	--	--	0.086	<0.086	0.095	<0.095	--	0.095	<0.095	0.090	<0.090	--	0.10	<0.10	0.097	<0.097	--	--	--	--	--	--

Sample Type: / Sample Date		Field Duplicate Results 8/24/2021					Field Duplicate Results 8/30/2021					Field Duplicate Results 9/16/2021					Field Duplicate Results 9/2/2021				
Carbon Range	**Units**	**RL**	**SS-5-0.5**	**RL**	**Duplicate SS-105-0.5**	**RPD (%)**	**RL**	**T1-2-23-2.5**	**RL**	**Duplicate T1-2-123-2.5**	**RPD (%)**	**RL**	**T3-4-5SW-0.5**	**RL**	**Duplicate T3-4-105SW-0.5**	**RPD (%)**	**RL**	**T3-4-9-2.5**	**RL**	**Duplicate T3-4-109-2.5**	**RPD (%)**
C13-C22	mg/kg	97	<97	98	<98	--	5.0	**3.8 J**	5.0	**6.6**	--	5.0	<5.0	5.0	<5.0	--	4.9	<4.9	5.0	<5.0	--
C23-C32	mg/kg	97	**3000**	98	**1400**	**73%**	5.0	**8.1**	5.0	**6.9**	--	5.0	<5.0	5.0	<5.0	--	4.9	<4.9	5.0	<5.0	--
C4-C12	mg/kg	0.087	<0.087	0.085	<0.085	--	0.087	<0.087	0.086	<0.086	--	--	--	--	--	--	0.078	<0.078	0.086	<0.086	--

Notes:

TPH: Total Petroleum Hydrocarbons

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

mg/kg: milligrams per kilogram

µg/l: micrograms per liter

RPD for duplicate sample pair exceeds 50%

Table 10
RFI Soil Sample Field Quality Control Results - VOCs

	Sample Type:	Field Duplicates Results					Field Duplicates Results				
	Sample Date:	8/26/2021					8/26/2021				
Parameter	**Units**	**RL**	**F11-1-0.5**	**RL**	**Duplicate F11-101-0.5**	**RPD (%)**	**RL**	**F11-10-0.5**	**RL**	**Duplicate F11-110-0.5**	**RPD (%)**
1,1,1,2-Tetrachloroethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,1,1-Trichloroethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,1,2,2-Tetrachloroethane	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	8.6	<8.6	10	<10	--	8.3	<8.3	9.1	<9.1	--
1,1,2-Trichloroethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,1-Dichloroethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,1-Dichloroethene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,1-Dichloropropene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
1,2,3-Trichlorobenzene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
1,2,3-Trichloropropane	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
1,2,4-Trichlorobenzene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
1,2,4-Trimethylbenzene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
1,2-Dibromo-3-chloropropane	ug/kg	8.6	<8.6	10	<10	--	8.3	<8.3	9.1	<9.1	--
1,2-Dibromoethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,2-Dichlorobenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,2-Dichloroethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,2-Dichloropropane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,3,5-Trimethylbenzene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
1,3-Dichlorobenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,3-Dichloropropane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
1,4-Dichlorobenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
2,2-Dichloropropane	ug/kg	4.3	<4.3	5.1	<5.1	--	4.1	<4.1	4.6	<4.6	--
2-Butanone	ug/kg	17	**11 J**	21	**13 J**	--	17	**23**	18	**51**	--
2-Chlorotoluene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
2-Hexanone	ug/kg	17	**3.9 J**	21	**4.8 J**	--	17	**5.0 J**	18	**11 J**	--
4-Chlorotoluene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
4-Methyl-2-pentanone	ug/kg	17	<17	21	<21	--	17	**3.2 J**	18	<18	--
Acetone	ug/kg	17	**78**	21	**110**	--	17	**140**	18	**240**	**53%**
Benzene	ug/kg	0.86	**0.71 J**	1.0	**0.88 J**	--	0.83	**0.74 J**	0.91	**0.76 J**	--
Bromobenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Bromodichloromethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Bromoform	ug/kg	4.3	<4.3	5.1	<5.1	--	4.1	<4.1	4.6	<4.6	--
Bromomethane	ug/kg	17	<17	21	<21	--	17	<17	18	<18	--
Carbon disulfide	ug/kg	8.6	**0.56 J**	10	**0.56 J**	--	8.3	**0.41 J**	9.1	<9.1	--
Carbon tetrachloride	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Chlorobenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Chlorobromomethane	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Chloroethane	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Chloroform	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Chloromethane	ug/kg	17	<17	21	<21	--	17	<17	18	<18	--
cis-1,2-Dichloroethene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
cis-1,3-Dichloropropene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Dibromochloromethane	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Dibromomethane	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Dichlorodifluoromethane	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Di-isopropyl ether (DIPE)	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Ethanol	ug/kg	220	**79 J**	260	**84 J**	--	210	**140 J**	230	**120 J**	--
Ethylbenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Ethyl-t-butyl ether (ETBE)	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Isopropylbenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
m,p-Xylene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Methylene chloride	ug/kg	8.6	<8.6	10	<10	--	8.3	<8.3	9.1	<9.1	--
Methyl-t-Butyl Ether (MTBE)	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Naphthalene	ug/kg	8.6	<8.6	10	<10	--	8.3	<8.3	9.1	<9.1	--
n-Butylbenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
N-Propylbenzene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
o-Xylene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
p-Isopropyltoluene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
sec-Butylbenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Styrene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Tert-amyl-methyl ether (TAME)	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
tert-Butyl alcohol (TBA)	ug/kg	17	<17	21	<21	--	17	<17	18	<18	--
tert-Butylbenzene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Tetrachloroethene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Toluene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
trans-1,2-Dichloroethene	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
trans-1,3-Dichloropropene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Trichloroethene	ug/kg	1.7	<1.7	2.1	<2.1	--	1.7	<1.7	1.8	<1.8	--
Trichlorofluoromethane	ug/kg	8.6	<8.6	10	<10	--	8.3	<8.3	9.1	<9.1	--
Vinyl chloride	ug/kg	0.86	<0.86	1.0	<1.0	--	0.83	<0.83	0.91	<0.91	--
Vinylacetate	ug/kg	8.6	<8.6	10	<10	--	8.3	<8.3	9.1	<9.1	--

Notes:

RPD for duplicate sample pair exceeds 50%

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

ug/kg: micrograms per kilogram

J: The reported value was obtained from a measurement that was less than the RL but greater than or equal to the MDL (Method Detection Limit)

Table 10
RFI Soil Sample Field Quality Control Results - VOCs

Sample Type: / Sample Date:		Field Duplicates Results 8/31/2021					Field Duplicates Results 8/25/2021				
Parameter	**Units**	**RL**	**F11-5-0.5**	**RL**	**Duplicate F11-105-0.5**	**RPD (%)**	**RL**	**MS-11-10**	**RL**	**Duplicate MS-111-10**	**RPD (%)**
1,1,1,2-Tetrachloroethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,1,1-Trichloroethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,1,2,2-Tetrachloroethane	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	10	<8.8	8.8	<10	--	9.6	<9.6	12	<12	--
1,1,2-Trichloroethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,1-Dichloroethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,1-Dichloroethene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,1-Dichloropropene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
1,2,3-Trichlorobenzene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
1,2,3-Trichloropropane	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
1,2,4-Trichlorobenzene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
1,2,4-Trimethylbenzene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
1,2-Dibromo-3-chloropropane	ug/kg	10	<8.8	8.8	<10	--	9.6	<9.6	12	<12	--
1,2-Dibromoethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,2-Dichlorobenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,2-Dichloroethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,2-Dichloropropane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,3,5-Trimethylbenzene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
1,3-Dichlorobenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,3-Dichloropropane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
1,4-Dichlorobenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
2,2-Dichloropropane	ug/kg	5.1	<4.4	4.4	<5.1	--	4.8	<4.8	5.8	<5.8	--
2-Butanone	ug/kg	21	<18	18	<21	--	19	<19	23	<23	--
2-Chlorotoluene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
2-Hexanone	ug/kg	21	<18	18	<21	--	19	<19	23	<23	--
4-Chlorotoluene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
4-Methyl-2-pentanone	ug/kg	21	<18	18	<21	--	19	<19	23	<23	--
Acetone	ug/kg	21	**40**	18	**40**	--	19	**14 J**	23	**14 J**	--
Benzene	ug/kg	1.0	**0.56 J**	0.88	**0.43 J**	--	0.96	<0.96	1.2	<1.2	--
Bromobenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Bromodichloromethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Bromoform	ug/kg	5.1	<4.4	4.4	<5.1	--	4.8	<4.8	5.8	<5.8	--
Bromomethane	ug/kg	21	<18	18	<21	--	19	<19	23	<23	--
Carbon disulfide	ug/kg	10	<8.8	8.8	<10	--	9.6	<9.6	12	<12	--
Carbon tetrachloride	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Chlorobenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Chlorobromomethane	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Chloroethane	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Chloroform	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Chloromethane	ug/kg	21	<18	18	<21	--	19	<19	23	<23	--
cis-1,2-Dichloroethene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
cis-1,3-Dichloropropene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Dibromochloromethane	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Dibromomethane	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Dichlorodifluoromethane	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Di-isopropyl ether (DIPE)	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Ethanol	ug/kg	260	<220	220	<260	--	240	<240	290	<290	--
Ethylbenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Ethyl-t-butyl ether (ETBE)	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Isopropylbenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
m,p-Xylene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Methylene chloride	ug/kg	10	<8.8	8.8	<10	--	9.6	<9.6	12	<12	--
Methyl-t-Butyl Ether (MTBE)	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Naphthalene	ug/kg	10	<8.8	8.8	<10	--	9.6	<9.6	12	<12	--
n-Butylbenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
N-Propylbenzene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
o-Xylene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
p-Isopropyltoluene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
sec-Butylbenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Styrene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Tert-amyl-methyl ether (TAME)	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
tert-Butyl alcohol (TBA)	ug/kg	21	**7.8 J**	18	<21	--	19	<19	23	<23	--
tert-Butylbenzene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Tetrachloroethene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Toluene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
trans-1,2-Dichloroethene	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
trans-1,3-Dichloropropene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Trichloroethene	ug/kg	2.1	<1.8	1.8	<2.1	--	1.9	<1.9	2.3	<2.3	--
Trichlorofluoromethane	ug/kg	10	<8.8	8.8	<10	--	9.6	<9.6	12	<12	--
Vinyl chloride	ug/kg	1.0	<0.88	0.88	<1.0	--	0.96	<0.96	1.2	<1.2	--
Vinylacetate	ug/kg	10	<8.8	8.8	<10	--	9.6	<9.6	12	<12	--

Notes:

RPD for duplicate sample pair exceeds 50%

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

ug/kg: micrograms per kilogram

J: The reported value was obtained from a measurement that was less than the RL but greater than or equal to the MDL (Method Detection Limit)

Table 10
RFI Soil Sample Field Quality Control Results - VOCs

	Sample Type:	Field Duplicates Results					Field Duplicates Results				
	Sample Date:	8/26/2021					8/24/2021				
Parameter	Units	RL	MS-13-2.5	RL	Duplicate MS-113-2.5	RPD (%)	RL	MS-16-0.5	RL	Duplicate MS-116-0.5	RPD (%)
1,1,1,2-Tetrachloroethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,1,1-Trichloroethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,1,2,2-Tetrachloroethane	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	8.9	<9.0	9.0	<8.9	--	8.1	<7.9	7.9	<8.1	--
1,1,2-Trichloroethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,1-Dichloroethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,1-Dichloroethene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,1-Dichloropropene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
1,2,3-Trichlorobenzene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
1,2,3-Trichloropropane	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
1,2,4-Trichlorobenzene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
1,2,4-Trimethylbenzene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
1,2-Dibromo-3-chloropropane	ug/kg	8.9	<9.0	9.0	<8.9	--	8.1	<7.9	7.9	<8.1	--
1,2-Dibromoethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,2-Dichlorobenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,2-Dichloroethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,2-Dichloropropane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,3,5-Trimethylbenzene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
1,3-Dichlorobenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,3-Dichloropropane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
1,4-Dichlorobenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
2,2-Dichloropropane	ug/kg	4.4	<4.5	4.5	<4.4	--	4.0	<4.0	4.0	<4.0	--
2-Butanone	ug/kg	18	<18	18	<18	--	16	**5.3 J**	16	<16	--
2-Chlorotoluene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
2-Hexanone	ug/kg	18	<18	18	<18	--	16	<16	16	<16	--
4-Chlorotoluene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
4-Methyl-2-pentanone	ug/kg	18	<18	18	<18	--	16	<16	16	<16	--
Acetone	ug/kg	18	**11 J**	18	<18	--	16	**33**	16	<16	--
Benzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Bromobenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Bromodichloromethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Bromoform	ug/kg	4.4	<4.5	4.5	<4.4	--	4.0	<4.0	4.0	<4.0	--
Bromomethane	ug/kg	18	<18	18	<18	--	16	<16	16	<16	--
Carbon disulfide	ug/kg	8.9	<9.0	9.0	<8.9	--	8.1	<7.9	7.9	**0.45 J**	--
Carbon tetrachloride	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Chlorobenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Chlorobromomethane	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Chloroethane	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Chloroform	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Chloromethane	ug/kg	18	<18	18	<18	--	16	<16	16	<16	--
cis-1,2-Dichloroethene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
cis-1,3-Dichloropropene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Dibromochloromethane	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Dibromomethane	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Dichlorodifluoromethane	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Di-isopropyl ether (DIPE)	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Ethanol	ug/kg	220	**100 J**	230	<220	--	200	<200	200	<200	--
Ethylbenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Ethyl-t-butyl ether (ETBE)	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Isopropylbenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
m,p-Xylene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Methylene chloride	ug/kg	8.9	<9.0	9.0	<8.9	--	8.1	<7.9	7.9	<8.1	--
Methyl-t-Butyl Ether (MTBE)	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Naphthalene	ug/kg	8.9	<9.0	9.0	<8.9	--	8.1	<7.9	7.9	<8.1	--
n-Butylbenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
N-Propylbenzene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
o-Xylene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
p-Isopropyltoluene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
sec-Butylbenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Styrene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Tert-amyl-methyl ether (TAME)	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
tert-Butyl alcohol (TBA)	ug/kg	18	<18	18	<18	--	16	<16	16	<16	--
tert-Butylbenzene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Tetrachloroethene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Toluene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
trans-1,2-Dichloroethene	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
trans-1,3-Dichloropropene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Trichloroethene	ug/kg	1.8	<1.8	1.8	<1.8	--	1.6	<1.6	1.6	<1.6	--
Trichlorofluoromethane	ug/kg	8.9	<9.0	9.0	<8.9	--	8.1	<7.9	7.9	<8.1	--
Vinyl chloride	ug/kg	0.89	<0.90	0.90	<0.89	--	0.81	<0.79	0.79	<0.81	--
Vinylacetate	ug/kg	8.9	<9.0	9.0	<8.9	--	8.1	<7.9	7.9	<8.1	--

Notes:

RPD for duplicate sample pair exceeds 50%

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

ug/kg: micrograms per kilogram

J: The reported value was obtained from a measurement that was less than the RL but greater than or equal to the MDL (Method Detection Limit)

Table 10
RFI Soil Sample Field Quality Control Results - VOCs

	Sample Type:	Field Duplicates Results					Field Duplicates Results				
	Sample Date:	8/24/2021					10/14/2021				
Parameter	Units	RL	MS-17-10	RL	Duplicate MS-117-10	RPD (%)	RL	MS-23-5	RL	Duplicate MS-123-5	RPD (%)
1,1,1,2-Tetrachloroethane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,1,1-Trichloroethane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,1,2,2-Tetrachloroethane	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	7.8	<8.3	8.3	<7.8	--	8.6	<9.0	9.0	<8.6	--
1,1,2-Trichloroethane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,1-Dichloroethane	ug/kg	0.78	**0.51 J**	0.83	**0.62 J**	--	0.86	<0.90	0.90	<0.86	--
1,1-Dichloroethene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,1-Dichloropropene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
1,2,3-Trichlorobenzene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
1,2,3-Trichloropropane	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
1,2,4-Trichlorobenzene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
1,2,4-Trimethylbenzene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
1,2-Dibromo-3-chloropropane	ug/kg	7.8	<8.3	8.3	<7.8	--	8.6	<9.0	9.0	<8.6	--
1,2-Dibromoethane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,2-Dichlorobenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,2-Dichloroethane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,2-Dichloropropane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,3,5-Trimethylbenzene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
1,3-Dichlorobenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,3-Dichloropropane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
1,4-Dichlorobenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
2,2-Dichloropropane	ug/kg	3.9	<4.2	4.2	<3.9	--	4.3	<4.5	4.5	<4.3	--
2-Butanone	ug/kg	16	<17	17	<16	--	17	<18	18	<17	--
2-Chlorotoluene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
2-Hexanone	ug/kg	16	<17	17	<16	--	17	<18	18	<17	--
4-Chlorotoluene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
4-Methyl-2-pentanone	ug/kg	16	<17	17	<16	--	17	<18	18	<17	--
Acetone	ug/kg	16	<17	17	<16	--	17	<18	18	<17	--
Benzene	ug/kg	0.78	<0.83	0.83	**1.1**	--	0.86	<0.90	0.90	**0.24 J**	--
Bromobenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Bromodichloromethane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Bromoform	ug/kg	3.9	<4.2	4.2	<3.9	--	4.3	<4.5	4.5	<4.3	--
Bromomethane	ug/kg	16	<17	17	<16	--	17	<18	18	<17	--
Carbon disulfide	ug/kg	7.8	<8.3	8.3	<7.8	--	8.6	<9.0	9.0	<8.6	--
Carbon tetrachloride	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Chlorobenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Chlorobromomethane	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
Chloroethane	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
Chloroform	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Chloromethane	ug/kg	16	<17	17	<16	--	17	<18	18	<17	--
cis-1,2-Dichloroethene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
cis-1,3-Dichloropropene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Dibromochloromethane	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
Dibromomethane	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Dichlorodifluoromethane	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
Di-isopropyl ether (DIPE)	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Ethanol	ug/kg	190	<210	210	<190	--	210	**70 J**	220	**130 J**	--
Ethylbenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Ethyl-t-butyl ether (ETBE)	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Isopropylbenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
m,p-Xylene	ug/kg	1.6	<1.7	1.7	**0.40 J**	--	1.7	<1.8	1.8	<1.7	--
Methylene chloride	ug/kg	7.8	<8.3	8.3	<7.8	--	8.6	<9.0	9.0	<8.6	--
Methyl-t-Butyl Ether (MTBE)	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
Naphthalene	ug/kg	7.8	<8.3	8.3	<7.8	--	8.6	<9.0	9.0	<8.6	--
n-Butylbenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
N-Propylbenzene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
o-Xylene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
p-Isopropyltoluene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
sec-Butylbenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Styrene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Tert-amyl-methyl ether (TAME)	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
tert-Butyl alcohol (TBA)	ug/kg	16	<17	17	<16	--	17	<18	18	<17	--
tert-Butylbenzene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Tetrachloroethene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Toluene	ug/kg	0.78	<0.83	0.83	**0.89**	--	0.86	<0.90	0.90	<0.86	--
trans-1,2-Dichloroethene	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
trans-1,3-Dichloropropene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
Trichloroethene	ug/kg	1.6	<1.7	1.7	<1.6	--	1.7	<1.8	1.8	<1.7	--
Trichlorofluoromethane	ug/kg	7.8	<8.3	8.3	<7.8	--	8.6	<9.0	9.0	<8.6	--
Vinyl chloride	ug/kg	0.78	<0.83	0.83	<0.78	--	0.86	<0.90	0.90	<0.86	--
Vinylacetate	ug/kg	7.8	<8.3	8.3	<7.8	--	8.6	<9.0	9.0	<8.6	--

Notes: RPD for duplicate sample pair exceeds 50%

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

ug/kg: micrograms per kilogram

J: The reported value was obtained from a measurement that was less than the RL but greater than or equal to the MDL (Method Detection Limit)

Table 10
RFI Soil Sample Field Quality Control Results - VOCs

	Sample Type:	Field Duplicates Results					Field Duplicates Results				
	Sample Date:	10/15/2021					9/1/2021				
Parameter	Units	RL	MS-27-20	RL	Duplicate MS-127-20	RPD (%)	RL	P-6-5	RL	Duplicate P-106-5	RPD (%)
1,1,1,2-Tetrachloroethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,1,1-Trichloroethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,1,2,2-Tetrachloroethane	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	9.2	<9.8	9.8	<9.2	--	9.4	<9.2	9.2	<9.4	--
1,1,2-Trichloroethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,1-Dichloroethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,1-Dichloroethene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,1-Dichloropropene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
1,2,3-Trichlorobenzene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
1,2,3-Trichloropropane	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
1,2,4-Trichlorobenzene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
1,2,4-Trimethylbenzene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
1,2-Dibromo-3-chloropropane	ug/kg	9.2	<9.8	9.8	<9.2	--	9.4	<9.2	9.2	<9.4	--
1,2-Dibromoethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,2-Dichlorobenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,2-Dichloroethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,2-Dichloropropane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,3,5-Trimethylbenzene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
1,3-Dichlorobenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,3-Dichloropropane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
1,4-Dichlorobenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
2,2-Dichloropropane	ug/kg	4.6	<4.9	4.9	<4.6	--	4.7	<4.6	4.6	<4.7	--
2-Butanone	ug/kg	18	<20	20	<18	--	19	<18	18	<19	--
2-Chlorotoluene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
2-Hexanone	ug/kg	18	<20	20	<18	--	19	<18	18	<19	--
4-Chlorotoluene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
4-Methyl-2-pentanone	ug/kg	18	<20	20	<18	--	19	<18	18	<19	--
Acetone	ug/kg	18	<20	20	**15 J**	--	19	**15 J**	18	**16 J**	--
Benzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Bromobenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Bromodichloromethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Bromoform	ug/kg	4.6	<4.9	4.9	<4.6	--	4.7	<4.6	4.6	<4.7	--
Bromomethane	ug/kg	18	<20	20	<18	--	19	<18	18	<19	--
Carbon disulfide	ug/kg	9.2	<9.8	9.8	<9.2	--	9.4	<9.2	9.2	<9.4	--
Carbon tetrachloride	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Chlorobenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Chlorobromomethane	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Chloroethane	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Chloroform	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Chloromethane	ug/kg	18	<20	20	<18	--	19	<18	18	<19	--
cis-1,2-Dichloroethene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
cis-1,3-Dichloropropene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Dibromochloromethane	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Dibromomethane	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Dichlorodifluoromethane	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Di-isopropyl ether (DIPE)	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Ethanol	ug/kg	230	<250	250	<230	--	240	<230	230	**90 J**	--
Ethylbenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Ethyl-t-butyl ether (ETBE)	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Isopropylbenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
m,p-Xylene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Methylene chloride	ug/kg	9.2	<9.8	9.8	<9.2	--	9.4	<9.2	9.2	<9.4	--
Methyl-t-Butyl Ether (MTBE)	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Naphthalene	ug/kg	9.2	<9.8	9.8	<9.2	--	9.4	<9.2	9.2	<9.4	--
n-Butylbenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
N-Propylbenzene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
o-Xylene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
p-Isopropyltoluene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
sec-Butylbenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Styrene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Tert-amyl-methyl ether (TAME)	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
tert-Butyl alcohol (TBA)	ug/kg	18	<20	20	<18	--	19	<18	18	<19	--
tert-Butylbenzene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Tetrachloroethene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Toluene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
trans-1,2-Dichloroethene	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
trans-1,3-Dichloropropene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Trichloroethene	ug/kg	1.8	<2.0	2.0	<1.8	--	1.9	<1.8	1.8	<1.9	--
Trichlorofluoromethane	ug/kg	9.2	<9.8	9.8	<9.2	--	9.4	<9.2	9.2	<9.4	--
Vinyl chloride	ug/kg	0.92	<0.98	0.98	<0.92	--	0.94	<0.92	0.92	<0.94	--
Vinylacetate	ug/kg	9.2	<9.8	9.8	<9.2	--	9.4	<9.2	9.2	<9.4	--

Notes: RPD for duplicate sample pair exceeds 50%

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

ug/kg: micrograms per kilogram

J: The reported value was obtained from a measurement that was less than the RL but greater than or equal to the MDL (Method Detection Limit)

Table 10
RFI Soil Sample Field Quality Control Results - VOCs

Parameter	Units	Field Duplicates Results 8/23/2021 RL	SS-10-10	RL	Duplicate SS-110-10	RPD (%)	Field Duplicates Results 8/25/2021 RL	SS-11-5	RL	Duplicate SS-111-5	RPD (%)
1,1,1,2-Tetrachloroethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,1,1-Trichloroethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,1,2,2-Tetrachloroethane	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	8.9	<8.9	11	<11	--	9.4	<8.8	8.8	<9.4	--
1,1,2-Trichloroethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,1-Dichloroethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,1-Dichloroethene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,1-Dichloropropene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
1,2,3-Trichlorobenzene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
1,2,3-Trichloropropane	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
1,2,4-Trichlorobenzene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
1,2,4-Trimethylbenzene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
1,2-Dibromo-3-chloropropane	ug/kg	8.9	<8.9	11	<11	--	9.4	<8.8	8.8	<9.4	--
1,2-Dibromoethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,2-Dichlorobenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,2-Dichloroethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,2-Dichloropropane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,3,5-Trimethylbenzene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
1,3-Dichlorobenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,3-Dichloropropane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
1,4-Dichlorobenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
2,2-Dichloropropane	ug/kg	4.4	<4.4	5.5	<5.5	--	4.7	<4.4	4.4	<4.7	--
2-Butanone	ug/kg	18	<18	22	<22	--	19	<18	18	<19	--
2-Chlorotoluene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
2-Hexanone	ug/kg	18	<18	22	<22	--	19	<18	18	<19	--
4-Chlorotoluene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
4-Methyl-2-pentanone	ug/kg	18	<18	22	<22	--	19	<18	18	<19	--
Acetone	ug/kg	18	<18	22	**27**	--	19	<18	18	<19	--
Benzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Bromobenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Bromodichloromethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Bromoform	ug/kg	4.4	<4.4	5.5	<5.5	--	4.7	<4.4	4.4	<4.7	--
Bromomethane	ug/kg	18	<18	22	<22	--	19	<18	18	<19	--
Carbon disulfide	ug/kg	8.9	<8.9	11	<11	--	9.4	**0.49 J**	8.8	<9.4	--
Carbon tetrachloride	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Chlorobenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Chlorobromomethane	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Chloroethane	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Chloroform	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Chloromethane	ug/kg	18	<18	22	<22	--	19	<18	18	<19	--
cis-1,2-Dichloroethene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
cis-1,3-Dichloropropene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Dibromochloromethane	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Dibromomethane	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Dichlorodifluoromethane	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Di-isopropyl ether (DIPE)	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Ethanol	ug/kg	220	<220	280	**120 J**	--	230	<220	220	<230	--
Ethylbenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Ethyl-t-butyl ether (ETBE)	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Isopropylbenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
m,p-Xylene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Methylene chloride	ug/kg	8.9	<8.9	11	<11	--	9.4	<8.8	8.8	<9.4	--
Methyl-t-Butyl Ether (MTBE)	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Naphthalene	ug/kg	8.9	<8.9	11	<11	--	9.4	<8.8	8.8	<9.4	--
n-Butylbenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
N-Propylbenzene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
o-Xylene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
p-Isopropyltoluene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
sec-Butylbenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Styrene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Tert-amyl-methyl ether (TAME)	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
tert-Butyl alcohol (TBA)	ug/kg	18	<18	22	**10 J**	--	19	<18	18	<19	--
tert-Butylbenzene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Tetrachloroethene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Toluene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
trans-1,2-Dichloroethene	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
trans-1,3-Dichloropropene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Trichloroethene	ug/kg	1.8	<1.8	2.2	<2.2	--	1.9	<1.8	1.8	<1.9	--
Trichlorofluoromethane	ug/kg	8.9	<8.9	11	<11	--	9.4	<8.8	8.8	<9.4	--
Vinyl chloride	ug/kg	0.89	<0.89	1.1	<1.1	--	0.94	<0.88	0.88	<0.94	--
Vinylacetate	ug/kg	8.9	<8.9	11	<11	--	9.4	<8.8	8.8	<9.4	--

Notes: RPD for duplicate sample pair exceeds 50%

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

ug/kg: micrograms per kilogram

J: The reported value was obtained from a measurement that was less than the RL but greater than or equal to the MDL (Method Detection Limit)

Table 10
RFI Soil Sample Field Quality Control Results - VOCs

	Sample Type:	Field Duplicates Results					Field Duplicates Results				
	Sample Date:	8/24/2021					8/23/2021				
Parameter	**Units**	**RL**	**SS-5-0.5**	**RL**	**Duplicate SS-105-0.5**	**RPD (%)**	**RL**	**SS-8-2.5**	**RL**	**Duplicate SS-108-2.5**	**RPD (%)**
1,1,1,2-Tetrachloroethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,1,1-Trichloroethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,1,2,2-Tetrachloroethane	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	8.2	<9.3	9.3	<8.2	--	8.0	<8.6	8.6	<8.0	--
1,1,2-Trichloroethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,1-Dichloroethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,1-Dichloroethene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,1-Dichloropropene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
1,2,3-Trichlorobenzene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
1,2,3-Trichloropropane	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
1,2,4-Trichlorobenzene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
1,2,4-Trimethylbenzene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
1,2-Dibromo-3-chloropropane	ug/kg	8.2	<9.3	9.3	<8.2	--	8.0	<8.6	8.6	<8.0	--
1,2-Dibromoethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,2-Dichlorobenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,2-Dichloroethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,2-Dichloropropane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,3,5-Trimethylbenzene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
1,3-Dichlorobenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,3-Dichloropropane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
1,4-Dichlorobenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
2,2-Dichloropropane	ug/kg	4.1	<4.7	4.7	<4.1	--	4.0	<4.3	4.3	<4.0	--
2-Butanone	ug/kg	16	**10 J**	19	**3.7 J**	--	16	<17	17	<16	--
2-Chlorotoluene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
2-Hexanone	ug/kg	16	<19	19	<16	--	16	<17	17	<16	--
4-Chlorotoluene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
4-Methyl-2-pentanone	ug/kg	16	<19	19	<16	--	16	<17	17	<16	--
Acetone	ug/kg	16	**55**	19	**21**	--	16	**21**	17	**24**	--
Benzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	**0.23 J**	0.86	<0.80	--
Bromobenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Bromodichloromethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Bromoform	ug/kg	4.1	<4.7	4.7	<4.1	--	4.0	<4.3	4.3	<4.0	--
Bromomethane	ug/kg	16	<19	19	<16	--	16	<17	17	<16	--
Carbon disulfide	ug/kg	8.2	<9.3	9.3	<8.2	--	8.0	<8.6	8.6	<8.0	--
Carbon tetrachloride	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Chlorobenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Chlorobromomethane	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Chloroethane	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Chloroform	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Chloromethane	ug/kg	16	<19	19	<16	--	16	<17	17	<16	--
cis-1,2-Dichloroethene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
cis-1,3-Dichloropropene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Dibromochloromethane	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Dibromomethane	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Dichlorodifluoromethane	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Di-isopropyl ether (DIPE)	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Ethanol	ug/kg	200	<230	230	<200	--	200	<210	210	<200	--
Ethylbenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Ethyl-t-butyl ether (ETBE)	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Isopropylbenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
m,p-Xylene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Methylene chloride	ug/kg	8.2	<9.3	9.3	<8.2	--	8.0	<8.6	8.6	<8.0	--
Methyl-t-Butyl Ether (MTBE)	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Naphthalene	ug/kg	8.2	<9.3	9.3	<8.2	--	8.0	<8.6	8.6	<8.0	--
n-Butylbenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
N-Propylbenzene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
o-Xylene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
p-Isopropyltoluene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
sec-Butylbenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Styrene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Tert-amyl-methyl ether (TAME)	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
tert-Butyl alcohol (TBA)	ug/kg	16	<19	19	<16	--	16	<17	17	<16	--
tert-Butylbenzene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Tetrachloroethene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Toluene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
trans-1,2-Dichloroethene	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
trans-1,3-Dichloropropene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Trichloroethene	ug/kg	1.6	<1.9	1.9	<1.6	--	1.6	<1.7	1.7	<1.6	--
Trichlorofluoromethane	ug/kg	8.2	<9.3	9.3	<8.2	--	8.0	<8.6	8.6	<8.0	--
Vinyl chloride	ug/kg	0.82	<0.93	0.93	<0.82	--	0.80	<0.86	0.86	<0.80	--
Vinylacetate	ug/kg	8.2	<9.3	9.3	<8.2	--	8.0	<8.6	8.6	<8.0	--

Notes:

RPD for duplicate sample pair exceeds 50%

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

ug/kg: micrograms per kilogram

J: The reported value was obtained from a measurement that was less than the RL but greater than or equal to the MDL (Method Detection Limit)

Table 11
RFI Soil Sample Field Quality Control Results - SVOCs

Sample Type: / Sample Date		Field Duplicates Results 8/26/2021					Field Duplicate Results 8/31/2021					Field Duplicates Results 8/26/2021				
Carbon Range	**Units**	**RL**	**F11-1-0.5**	**RL**	**Duplicate F11-101-0.5**	**RPD (%)**	**RL**	**F11-5-0.5**	**RL**	**Duplicate F11-105-0.5**	**RPD (%)**	**RL**	**F11-10-0.5**	**RL**	**Duplicate F11-110-0.5**	**RPD (%)**
1,2,4-Trichlorobenzene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
1,2-Dichlorobenzene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
1,3-Dichlorobenzene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
1,4-Dichlorobenzene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
1-Methylnaphthalene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2,4,5-Trichlorophenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2,4,6-Trichlorophenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2,4-Dichlorophenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2,4-Dimethylphenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2,4-Dinitrophenol	mg/kg	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
2,4-Dinitrotoluene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2,6-Dichlorophenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2,6-Dinitrotoluene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2-Chloronaphthalene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2-Chlorophenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2-Methylnaphthalene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2-Methylphenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2-Nitroaniline	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
2-Nitrophenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
3 & 4 Methylphenol	mg/kg	1.0	<1.0	0.98	<0.98	--	1.0	<1.0	0.99	<0.99	--	0.98	<0.98	0.98	<0.98	--
3,3'-Dichlorobenzidine	mg/kg	2.5	<2.5	2.5	<2.5	--	2.5	<2.5	2.5	<2.5	--	2.4	<2.4	2.5	<2.5	--
3-Nitroaniline	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
4,6-Dinitro-2-methylphenol	mg/kg	2.5	<2.5	2.5	<2.5	--	2.5	<2.5	2.5	<2.5	--	2.4	<2.4	2.5	<2.5	--
4-Bromophenyl-phenylether	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
4-Chloro-3-methylphenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
4-Chloroaniline	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
4-Chlorophenyl-phenylether	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
4-Nitroaniline	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
4-Nitrophenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Acenaphthene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Acenaphthylene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Aniline	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Anthracene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Azobenzene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Benzidine	mg/kg	5.0	<5.0	4.9	<4.9	--	5.0	<5.0	5.0	<5.0	--	4.9	<4.9	4.9	<4.9	--
Benzo(a)anthracene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Benzo(a)pyrene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Benzo(b)fluoranthene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Benzo(g,h,i)perylene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Benzo(k)fluoranthene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Benzoic acid	mg/kg	2.5	<2.5	2.5	<2.5	--	2.5	<2.5	2.5	<2.5	--	2.4	<2.4	2.5	<2.5	--
Benzyl alcohol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
bis (2-chloroisopropyl) ether	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
bis(2-Chloroethoxy)methane	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
bis(2-Chloroethyl)ether	mg/kg	2.5	<2.5	2.5	<2.5	--	2.5	<2.5	2.5	<2.5	--	2.4	<2.4	2.5	<2.5	--
bis(2-Ethylhexyl)phthalate	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Butyl benzyl phthalate	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Chrysene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Dibenz(a,h)anthracene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Dibenzofuran	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Diethylphthalate	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Dimethyl phthalate	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Di-N-Butyl phthalate	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--

Table 11
RFI Soil Sample Field Quality Control Results - SVOCs

Sample Type: / Sample Date		Field Duplicates Results 8/26/2021					Field Duplicate Results 8/31/2021					Field Duplicates Results 8/26/2021				
Carbon Range	**Units**	**RL**	**F11-1-0.5**	**RL**	**Duplicate F11-101-0.5**	**RPD (%)**	**RL**	**F11-5-0.5**	**RL**	**Duplicate F11-105-0.5**	**RPD (%)**	**RL**	**F11-10-0.5**	**RL**	**Duplicate F11-110-0.5**	**RPD (%)**
Di-N-Octyl phthalate	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Fluoranthene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Fluorene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Hexachloro-1,3-butadiene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Hexachlorobenzene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Hexachlorocyclopentadiene	mg/kg	1.5	<1.5	1.5	<1.5	--	1.5	<1.5	1.5	<1.5	--	1.5	<1.5	1.5	<1.5	--
Hexachloroethane	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Isophorone	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Naphthalene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Nitrobenzene	mg/kg	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
N-Nitrosodimethylamine	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
N-Nitroso-di-N-propylamine	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
N-Nitrosodiphenylamine	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Pentachlorophenol	mg/kg	2.5	<2.5	2.5	<2.5	--	2.5	<2.5	2.5	<2.5	--	2.4	<2.4	2.5	<2.5	--
Phenanthrene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Phenol	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Pyrene	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--
Pyridine	mg/kg	0.50	<0.50	0.49	<0.49	--	0.50	<0.50	0.50	<0.50	--	0.49	<0.49	0.49	<0.49	--

Notes:

SVOCs: Semi-volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

mg/kg: milligrams per kilogram

Table 12
RFI Soil Sample Field Quality Control Results - Metals and pH

Sample Type:		Field Duplicates Results					Field Duplicates Results					Field Duplicates Results				
Sample Date:		8/18/2021					8/25/2021					8/24/2021				
Parameter	**Units**	**RL**	**F24-1-0.5**	**RL**	**Duplicate F24-101-0.5**	**RPD (%)**	**RL**	**FS-3-2.5**	**RL**	**Duplicate FS-103-2.5**	**RPD (%)**	**RL**	**MS-16-0.5**	**PQL**	**Duplicate MS-116-0.5**	**RPD (%)**
Antimony	mg/kg	2.08	<2.08	1.93	<1.93	--	2.11	<2.11	2.06	<2.06	--	2.01	<2.01	1.99	<1.99	--
Arsenic	mg/kg	1.04	**0.350 J**	0.966	<0.966	--	1.05	<1.05	1.03	**0.606 J**	--	1.01	<1.01	0.995	**0.376 J**	--
Barium	mg/kg	1.04	**78.1**	0.966	**63.8**	**20%**	1.05	**97.4**	1.03	**42.4**	**79%**	1.01	**56.3**	0.995	**56.5**	**0%**
Beryllium	mg/kg	1.04	<1.04	0.966	<0.966	--	1.05	<1.05	1.03	<1.03	--	1.01	<1.01	0.995	<0.995	--
Cadmium	mg/kg	1.04	<1.04	0.966	<0.966	--	1.05	<1.05	1.03	<1.03	--	1.01	**0.710 J**	0.995	**0.739 J**	--
Chromium	mg/kg	2.08	**11.8**	1.93	**8.92**	--	2.11	**3.50**	2.06	**5.73**	--	2.01	**3.94**	1.99	**5.09**	--
Cobalt	mg/kg	1.04	**3.30**	0.966	**2.98**	--	1.05	**3.14**	1.03	**2.71**	--	1.01	**3.41**	0.995	**3.55**	--
Copper	mg/kg	1.04	**16.9**	0.966	**14.2**	--	1.05	**3.90**	1.03	**5.13**	--	1.01	**4.92**	0.995	**5.89**	--
Lead	mg/kg	1.04	**2.72**	0.966	**2.21**	--	1.05	**3.28**	1.03	**3.58**	--	1.01	**1.97**	0.995	**2.08**	--
Mercury	mg/kg	0.0862	<0.0862	0.0820	**0.0136 J**	--	0.0847	<0.0847	0.08	<0.0794	--	0.0862	**0.0324 J B**	0.0820	**0.0182 JB**	--
Molybdenum	mg/kg	1.04	<1.04	0.966	<0.966	--	1.05	<1.05	1.03	<1.03	--	1.01	<1.01	0.995	<0.995	--
Nickel	mg/kg	1.04	**6.19**	0.966	**5.97**	**4%**	1.05	**4.08**	1.03	**4.18**	--	1.01	**18.0**	0.995	**17.7**	**2%**
Selenium	mg/kg	1.04	<1.04	0.966	<0.966	--	1.05	<1.05	1.03	<1.03	--	1.01	<1.01	0.995	<0.995	--
Silver	mg/kg	1.04	<1.04	0.966	<0.966	-	1.05	<1.05	1.03	<1.03	--	1.01	<1.01	0.995	<0.995	--
Thallium	mg/kg	1.04	<1.04	0.966	<0.966	--	1.05	<1.05	1.03	<1.03	--	1.01	<1.01	0.995	<0.995	--
Vanadium	mg/kg	2.08	**22.3**	1.93	**15.7**	**35%**	2.11	**13.7**	2.06	**10.2**	--	2.01	**11.6**	1.99	**13.5**	**15%**
Zinc	mg/kg	5.21	**49.2**	4.83	**45.1**	**9%**	5.26	**27.8**	5.15	**20.5**	**30%**	5.03	**37.8**	4.98	**42.0**	**11%**
pH	s.u.	--	**--**	--	**--**	**--**	--	**10.1**	--	**9.7**	**4%**	--	**--**	--	**--**	**--**

Sample Type:		Field Duplicates Results					Field Duplicates Results				
Sample Date:		8/25/2021					8/24/2021				
Parameter	**Units**	**RL**	**SS-11-5**	**RL**	**Duplicate SS-111-5**	**RPD (%)**	**RL**	**SS-5-0.5**	**RL**	**Duplicate SS-105-0.5**	**RPD (%)**
Antimony	mg/kg	2.03	<2.03	1.98	<1.98	--	2.07	<2.07	2.01	<2.01	--
Arsenic	mg/kg	1.02	**0.415 J**	0.990	<0.990	--	1.04	<1.04	1.01	**0.357 J**	--
Barium	mg/kg	1.02	**57.8**	0.990	**31.1**	**60%**	1.04	**44.8**	1.01	**50.9**	**13%**
Beryllium	mg/kg	1.02	<1.02	0.990	<0.990	--	1.04	<1.04	1.01	<1.01	--
Cadmium	mg/kg	1.02	<1.02	0.990	<0.990	--	1.04	**0.531 J**	1.01	**0.737 J**	--
Chromium	mg/kg	2.03	**4.73**	1.98	**2.26**	--	2.07	**3.58**	2.01	**4.31**	--
Cobalt	mg/kg	1.02	**4.29**	0.990	**1.64**	--	1.04	**2.72**	1.01	**3.45**	--
Copper	mg/kg	1.02	**5.65**	0.990	**2.12**	--	1.04	**4.08**	1.01	**5.81**	--
Lead	mg/kg	1.02	**4.24**	0.990	**2.56**	--	1.04	**1.49**	1.01	**1.91**	--
Mercury	mg/kg	0.0833	<0.0833	0.0862	<0.0862	--	0.0820	**0.0308 J B**	0.0862	**0.0267 J B**	--
Molybdenum	mg/kg	1.02	<1.02	0.990	<0.990	--	1.04	<1.04	1.01	<1.01	--
Nickel	mg/kg	1.02	**3.18**	0.990	**1.21**	--	1.04	**13.9**	1.01	**21.4**	**42%**
Selenium	mg/kg	1.02	<1.02	0.990	<0.990	--	1.04	<1.04	1.01	<1.01	--
Silver	mg/kg	1.02	<1.02	0.990	<0.990	--	1.04	<1.04	1.01	<1.01	--
Thallium	mg/kg	1.02	<1.02	0.990	<0.990	--	1.04	<1.04	1.01	<1.01	--
Vanadium	mg/kg	2.03	**11.8**	1.98	**6.31**	**--**	2.07	**10.0**	2.01	**13.1**	**--**
Zinc	mg/kg	5.08	**22.8**	4.95	**11.9**	**--**	5.18	**28.7**	5.03	**45.1**	**44%**
pH	s.u.	--	**--**	--	**--**	**--**	--	**--**	--	**--**	**--**

Notes:

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above PQL

RPD for duplicate sample pair exceeds 50%

mg/kg: milligrams per kilogram

mg/l: milligrams per liter

s.u.: standard units

J: The reported value was obtained from a measurement that was less than the RL but greater than or qual to the MDL (Method Detection Limit)

B: Compound was detected in the laboratory method blank and the sample

RLs noted when results were detected above the RL in the primary and/or duplicate sample

Table 13
RFI Soil Sample Field Quality Control Results - PCBs

Sample Type: / Sample Date		Field Duplicates Results 8/26/2021					Field Duplicate Results 8/26/2021					Field Duplicate Results 8/31/2021					Field Duplicates Results 8/25/2021					Field Duplicate Results 8/31/2021				
Carbon Range	**Units**	**RL**	**F11-1-0.5**	**RL**	**Duplicate F11-101-0.5**	**RPD**	**RL**	**F11-10-0.5**	**RL**	**Duplicate F11-110-0.5**	**RPD**	**RL**	**F11-5-0.5**	**RL**	**Duplicate F11-105-0.5**	**RPD**	**RL**	**F14-1-1**	**RL**	**Duplicate F14-101-1**	**RPD**	**RL**	**F21-T1-2-1**	**RL**	**Duplicate F21-T1-102-1**	**RPD**
Aroclor-1016	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1221	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1232	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1242	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1248	mg/kg	0.050	**0.24**	0.049	**0.18**	--	0.050	**0.050**	0.049	**0.055**	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1254	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	**0.12**	0.050	**0.17**	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1260	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	**0.055**	0.050	**0.063**	--	0.050	**0.027 J**	0.050	<0.050	--
Aroclor-1262	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1268	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--

Sample Type: / Sample Date		Field Duplicates Results 08/24/21					Field Duplicate Results 08/24/21					Field Duplicate Results 08/24/21					Field Duplicates Results 08/23/21					Field Duplicate Results 08/30/21				
Carbon Range	**Units**	**RL**	**F36-1-1**	**RL**	**Duplicate F36-101-1**	**RPD**	**RL**	**PT1-1-1**	**RL**	**Duplicate PT1-101-1**	**RPD**	**RL**	**PT1-4-1**	**RL**	**Duplicate PT1-104-1**	**RPD**	**RL**	**PT2-3-0.5**	**RL**	**Duplicate PT2-103-0.5**	**RPD**	**RL**	**T1-2-1-0**	**RL**	**Duplicate T1-2-101-0**	**RPD**
Aroclor-1016	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1221	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1232	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1242	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1248	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1254	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	**0.062**	0.050	**0.15**	--	0.050	**0.93**	0.049	**0.33**	**95%**	0.049	**0.070**	0.049	**0.10**	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1260	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	**0.036 J**	0.050	**0.078**	--	0.050	**0.33**	0.049	**0.19**	--	0.049	<0.049	0.049	<0.049	--	0.050	**0.027 J**	0.049	<0.049	--
Aroclor-1262	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1268	mg/kg	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.049	<0.049	--

Sample Type: / Sample Date		Field Duplicates Results 08/30/21					Field Duplicate Results 08/31/21					Field Duplicate Results 08/31/21					Field Duplicates Results 08/31/21					Field Duplicate Results 08/30/21				
Carbon Range	**Units**	**RL**	**T1-2-11-0**	**RL**	**Duplicate T1-2-111-0**	**RPD**	**RL**	**T1-2-13-1**	**RL**	**Duplicate T1-2-113-1**	**RPD**	**RL**	**T1-2-16-0**	**RL**	**Duplicate T1-2-116-0**	**RPD**	**RL**	**T1-2-18-1**	**RL**	**Duplicate T1-2-118-1**	**RPD**	**RL**	**T1-2-21-0**	**RL**	**Duplicate T1-2-121-0**	**RPD**
Aroclor-1016	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1221	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1232	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1242	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1248	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1254	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1260	mg/kg	0.050	**0.045 J**	0.049	<0.049	--	0.050	**0.029 J**	0.050	**0.045 J**	--	0.050	**0.058**	0.050	**0.063**	--	0.050	<0.050	0.050	**0.033 J**	--	0.050	**0.029 J**	0.049	**0.025 J**	--
Aroclor-1262	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--
Aroclor-1268	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.049	<0.049	--

Sample Type: / Sample Date		Field Duplicates Results 08/30/21					Field Duplicate Results 08/30/21					Field Duplicate Results 08/26/21					Field Duplicates Results 08/30/21					Field Duplicate Results 08/30/21				
Carbon Range	**Units**	**RL**	**T1-2-26-0**	**RL**	**Duplicate T1-2-126-0**	**RPD**	**RL**	**T1-2-28-1**	**RL**	**Duplicate T1-2-128-1**	**RPD**	**RL**	**T1-2-31-0**	**RL**	**Duplicate T1-2-131-0**	**RPD**	**RL**	**T1-2-4-1**	**RL**	**Duplicate T1-2-104-1**	**RPD**	**RL**	**T1-2-6-0**	**RL**	**Duplicate T1-2-106-0**	**RPD**
Aroclor-1016	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1221	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1232	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1242	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1248	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1254	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1260	mg/kg	0.050	**0.071**	0.049	**0.057**	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	**0.026 J**	0.050	<0.050	--	0.050	**0.038 J**	0.050	<0.050	--
Aroclor-1262	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1268	mg/kg	0.050	<0.050	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--

Table 13
RFI Soil Sample Field Quality Control Results - PCBs

Sample Type: / Sample Date		Field Duplicates Results 08/30/21					Field Duplicate Results 09/02/21					Field Duplicate Results 09/01/21					Field Duplicates Results 09/01/21					Field Duplicate Results 09/02/21				
Carbon Range	**Units**	**RL**	**T1-2-8-1**	**RL**	**Duplicate T1-2-108-1**	**RPD**	**RL**	**T3-4-12-0**	**RL**	**Duplicate T3-4-112-0**	**RPD**	**RL**	**T3-4-14-1**	**RL**	**Duplicate T3-4-114-1**	**RPD**	**RL**	**T3-4-2-1**	**RL**	**Duplicate T3-4-102-1**	**RPD**	**RL**	**T3-4-5-0**	**RL**	**Duplicate T3-4-105-0**	**RPD**
Aroclor-1016	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1221	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1232	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1242	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1248	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1254	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	**0.61**	0.050	**0.24**	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1260	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	**0.12**	0.050	**0.052**	--
Aroclor-1262	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--
Aroclor-1268	mg/kg	0.050	<0.050	0.049	<0.049	--	0.049	<0.049	0.049	<0.049	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--	0.050	<0.050	0.050	<0.050	--

Sample Type: / Sample Date		Field Duplicates Results 09/02/21				
Carbon Range	**Units**	**RL**	**T3-4-8-1**	**RL**	**Duplicate T3-4-108-1**	**RPD**
Aroclor-1016	mg/kg	0.050	<0.050	0.050	<0.050	--
Aroclor-1221	mg/kg	0.050	<0.050	0.050	<0.050	--
Aroclor-1232	mg/kg	0.050	<0.050	0.050	<0.050	--
Aroclor-1242	mg/kg	0.050	<0.050	0.050	<0.050	--
Aroclor-1248	mg/kg	0.050	<0.050	0.050	<0.050	--
Aroclor-1254	mg/kg	0.050	<0.050	0.050	<0.050	--
Aroclor-1260	mg/kg	0.050	**0.047 J**	0.050	**0.087**	--
Aroclor-1262	mg/kg	0.050	<0.050	0.050	<0.050	--
Aroclor-1268	mg/kg	0.050	<0.050	0.050	<0.050	--

Notes:

SVOCs: Semi-volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

<: Not detected above RL

--: Not analyzed or not applicable

mg/kg: milligrams per kilogram

µg/l - micrograms per liter

J: The reported value was obtained from a measurement that was less than the PQL but greater than or qual to the MDL (Method Detection Limit)

RPD for duplicate sample pair exceeds 50%

Table 14
RFI Soil Vapor Sample Field Quality Control Results - VOCs

Sample Type: / Sample Date:		Field Duplicates Results 8/31/2021					Field Duplicates Results 9/3/2021				
Parameter	**Units**	**RL**	**P-2-10**	**RL**	**Duplicate P-2-10-REP**	**RPD (%)**	**RL**	**P-5-20**	**RL**	**Duplicate P-5-20-REP**	**RPD (%)**
Benzene	µg/m^3	0.5	<0.5	0.5	<0.5	--	0.5	**6.1**	0.5	**6.2**	**2%**
Bromobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Bromodichloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Bromoform	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
n-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
sec-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Carbon tetrachloride	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
Chlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Chloroform	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	**2.3**	--
2-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
4-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Dibromochloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,2-Dibromo-3-chloropropane	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
1,2-Dibromoethane (EDB)	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dibromomethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
1,2- Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,4-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dichlorodifluoromethane(Freon-12)	µg/m^3	5.0	**5.2**	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
1,1-Dichloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dichloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,1-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
cis-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
trans-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichloropropane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
2,2-Dichloropropane	µg/m^3	8.0	<8.0	8.0	<8.0	--	8.0	<8.0	8.0	<8.0	--
1,1-Dichloropropene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
cis-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
trans-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Ethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**13.1**	2.0	**13.4**	**2%**
Freon-113	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Hexachlorobutadiene	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
Isopropylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
4-Isopropyltoluene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Methylene chloride	µg/m^3	2.0	<2.0	2.0	<2.0	--	20.0	<20.0	20.0	<20.0	--
Naphthalene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
n-Propylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Styrene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,1,1,2-Tetrachloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
1,1,2,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
Tetrachloroethene (PCE)	µg/m^3	5.0	**269**	5.0	**212**	**24%**	5.0	**111**	5.0	**115**	**4%**
Toluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	**69.0**	5.0	**68.9**	**0%**
1,2,3-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,2,4-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,1,1-Trichloroethane	µg/m^3	2.0	**8.1**	2.0	**6.4**	--	2.0	**2.4**	2.0	**2.4**	--
1,1,2-Trichloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
Trichloroethene (TCE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Trichlorofluoromethane(Freon-11)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
1,2,3-Trichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,2,4-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**3.7**	2.0	**3.8**	--
1,3,5-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Vinyl chloride	µg/m^3	0.5	<0.5	0.5	<0.5	--	0.5	<0.5	0.5	<0.5	--
m,p-Xylene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**61.5**	2.0	**64.8**	**5%**
o-Xylene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**20.0**	2.0	**20.4**	**2%**
Methyl tert butyl ether(MTBE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Ethyl-tert-butyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Di-isopropylether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-amyl methyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butyl alcohol	µg/m^3	100	<100	100	<100	--	100	<100	100	<100	--
n-Pentane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5	<5.0	--
n-Hexane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5	<5.0	--
n-Heptane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5	<5.0	--

Notes:
VOCs: Volatile organic compounds
RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)
--: Not analyzed or not applicable
<: Not detected above RL
µg/m^3: micrograms per cubic meter

Table 14
RFI Soil Vapor Sample Field Quality Control Results - VOCs

Sample Type: / Sample Date:		Field Duplicates Results 8/31/2021					Field Duplicates Results 9/1/2021				
Parameter	**Units**	**RL**	**MS-13-10**	**RL**	**Duplicate MS-13-10-REP**	**RPD (%)**	**RL**	**MS-16-20**	**RL**	**Duplicate MS-16-20-REP**	**RPD (%)**
Benzene	µg/m^3	0.5	**5.0**	0.5	**3.8**	**27%**	0.5	**0.6**	0.5	<0.5	--
Bromobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Bromodichloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Bromoform	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
n-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
sec-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Carbon tetrachloride	µg/m^3	1.0	**9.8**	1.0	**10.2**	**4%**	1.0	**12.5**	1.0	**11.2**	**11%**
Chlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Chloroform	µg/m^3	2.0	**114**	2.0	**107**	**6%**	2.0	**156**	2.0	**157**	**1%**
2-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
4-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Dibromochloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,2-Dibromo-3-chloropropane	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
1,2-Dibromoethane (EDB)	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dibromomethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
1,2- Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,4-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dichlorodifluoromethane(Freon-12)	µg/m^3	5.0	**11.0**	5.0	**11.8**	--	5.0	**18.5**	5.0	**18.6**	**1%**
1,1-Dichloroethane	µg/m^3	1.0	**19.0**	1.0	**19.2**	**1%**	1.0	**1050**	1.0	**1060**	**1%**
1,2-Dichloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,1-Dichloroethene	µg/m^3	1.0	**66.2**	1.0	**61.6**	**7%**	1.0	**589**	1.0	**595**	**1%**
cis-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
trans-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichloropropane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
2,2-Dichloropropane	µg/m^3	8.0	<8.0	8.0	<8.0	--	8.0	<8.0	8.0	<8.0	--
1,1-Dichloropropene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
cis-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
trans-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Ethylbenzene	µg/m^3	2.0	**29.0**	2.0	**25.6**	**12%**	2.0	<2.0	2.0	<2.0	--
Freon-113	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Hexachlorobutadiene	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
Isopropylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
4-Isopropyltoluene	µg/m^3	2.0	**29.6**	2.0	**26.7**	**10%**	2.0	<2.0	2.0	<2.0	--
Methylene chloride	µg/m^3	20.0	<20.0	20.0	<20.0	--	20.0	<20.0	20.0	<20.0	--
Naphthalene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
n-Propylbenzene	µg/m^3	2.0	**3.3**	2.0	**3.5**	--	2.0	<2.0	2.0	<2.0	--
Styrene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,1,1,2-Tetrachloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
1,1,2,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
Tetrachloroethene (PCE)	µg/m^3	5.0	**44.4**	5.0	**43.6**	**2%**	5.0	**373**	5.0	**387**	**4%**
Toluene	µg/m^3	5.0	**65.4**	5.0	**55.5**	**16%**	5.0	<5.0	5.0	<5.0	--
1,2,3-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,2,4-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,1,1-Trichloroethane	µg/m^3	2.0	**32.8**	2.0	**33.1**	**1%**	2.0	**772**	2.0	**789**	**2%**
1,1,2-Trichloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
Trichloroethene (TCE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	**27.6**	5.0	**27.1**	--
Trichlorofluoromethane(Freon-11)	µg/m^3	5.0	**22.5**	5.0	**21.0**	--	5.0	**16.6**	5.0	**16.9**	--
1,2,3-Trichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,2,4-Trimethylbenzene	µg/m^3	2.0	**26.5**	2.0	**22.2**	**18%**	2.0	<2.0	2.0	<2.0	--
1,3,5-Trimethylbenzene	µg/m^3	2.0	**8.9**	2.0	**8.1**	--	2.0	<2.0	2.0	<2.0	--
Vinyl chloride	µg/m^3	0.5	<0.5	0.5	<0.5	--	0.5	<0.5	0.5	<0.5	--
m,p-Xylene	µg/m^3	2.0	**70.9**	2.0	**62.0**	**13%**	2.0	**4.2**	2.0	**4.1**	--
o-Xylene	µg/m^3	2.0	**11.3**	2.0	**9.8**	--	2.0	<2.0	2.0	<2.0	--
Methyl tert butyl ether(MTBE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Ethyl-tert-butyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Di-isopropylether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-amyl methyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butyl alcohol	µg/m^3	100	<100	100	<100	--	100	<100	100	<100	--
n-Pentane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
n-Hexane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
n-Heptane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--

Notes:
VOCs: Volatile organic compounds
RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)
--: Not analyzed or not applicable
<: Not detected above RL
µg/m^3: micrograms per cubic meter

Table 14
RFI Soil Vapor Sample Field Quality Control Results - VOCs

Sample Type: / Sample Date:		Field Duplicates Results 4/4/2022					Field Duplicates Results 10/18/2021				
Parameter	**Units**	**RL**	**MS-21R-5**	**RL**	**Duplicate MS-21R-5REP**	**RPD (%)**	**RL**	**MS-23-5**	**RL**	**Duplicate MS-23-5 REP**	**RPD (%)**
Benzene	µg/m^3	0.5	<0.5	0.5	<0.5	--	0.5	<0.5	0.5	<0.5	--
Bromobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Bromodichloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Bromoform	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
n-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
sec-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Carbon tetrachloride	µg/m^3	1.0	**8.1**	1.0	**7.3**	**10%**	1.0	**2.5**	1.0	**3.2**	--
Chlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Chloroform	µg/m^3	2.0	**199**	2.0	**193**	**3%**	2.0	**85.9**	2.0	**125**	**37%**
2-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
4-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Dibromochloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,2-Dibromo-3-chloropropane	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
1,2-Dibromoethane (EDB)	µg/m^3	0.5	<0.5	0.5	<0.5	--	2.0	<2.0	2.0	<2.0	--
Dibromomethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	4.0	<4.0	4.0	<4.0	--
1,2- Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,4-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dichlorodifluoromethane(Freon-12)	µg/m^3	5.0	**24.0**	5.0	**25.2**	**5%**	5.0	**6.3**	5.0	**7.9**	--
1,1-Dichloroethane	µg/m^3	1.0	**10.1**	1.0	**9.7**	**4%**	1.0	**1.7**	1.0	**2.6**	--
1,2-Dichloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,1-Dichloroethene	µg/m^3	1.0	**18.9**	1.0	**17.8**	**6%**	1.0	**3.2**	1.0	**4.6**	--
cis-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
trans-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	4.0	<4.0	4.0	<4.0	--
2,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	8.0	<8.0	8.0	<8.0	--
1,1-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	5.0	<5.0	5.0	<5.0	--
cis-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
trans-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Ethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Freon-113	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Hexachlorobutadiene	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
Isopropylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
4-Isopropyltoluene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Methylene chloride	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Naphthalene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
n-Propylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Styrene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**2**	2.0	**3.1**	--
1,1,1,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	4.0	<4.0	4.0	<4.0	--
1,1,2,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
Tetrachloroethene (PCE)	µg/m^3	5.5	**18.6**	5.5	**20.1**	--	5.0	<5.0	5.0	**7.4**	--
Toluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	**11.6**	5.0	**14.7**	--
1,2,3-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,2,4-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,1,1-Trichloroethane	µg/m^3	2.0	**9.8**	2.0	**9.2**	--	2.0	**7.6**	2.0	**11.7**	--
1,1,2-Trichloroethane	µg/m^3	4.0	<2.0	4.0	<2.0	--	4.0	<4.0	4.0	<4.0	--
Trichloroethene (TCE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Trichlorofluoromethane(Freon-11)	µg/m^3	5.0	**74.1**	5.0	**71.0**	**4%**	5.0	**12.2**	5.0	**17.9**	--
1,2,3-Trichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,2,4-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3,5-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Vinyl chloride	µg/m^3	0.5	<0.5	0.5	<0.5	--	0.5	<0.5	0.5	<0.5	--
m,p-Xylene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	**3.1**	5.0	**3.4**	--
o-Xylene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Methyl tert butyl ether(MTBE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Ethyl-tert-butyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Di-isopropylether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-amyl methyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butyl alcohol	µg/m^3	25.0	<25.0	25.0	<25.0	--	100	<100	100	<100	--
n-Pentane (Tracer Gas)	µg/m^3	50	<50	50	<50	--	5.0	<5.0	5.0	<5.0	--
n-Hexane (Tracer Gas)	µg/m^3	50	<50	50	<50	--	5.0	<5.0	5.0	<5.0	--
n-Heptane (Tracer Gas)	µg/m^3	50	<50	50	<50	--	5.0	<5.0	5.0	<5.0	--

Notes:

VOCs: Volatile organic compounds

RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)

--: Not analyzed or not applicable

<: Not detected above RL

µg/m^3: micrograms per cubic meter

Table 14
RFI Soil Vapor Sample Field Quality Control Results - VOCs

Sample Type: / Sample Date:		Field Duplicates Results 11/8/2021					Field Duplicates Results 11/8/2021				
Parameter	**Units**	**RL**	**MS-23B-40**	**RL**	**Duplicate MS-23B-40-REP**	**RPD (%)**	**RL**	**MS-23B-100**	**RL**	**Duplicate MS-23B-100-REP**	**RPD (%)**
Benzene	µg/m^3	0.5	**3.6**	0.5	**4.0**	**11%**	0.5	**5.3**	0.5	**6.0**	**12%**
Bromobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Bromodichloromethane	µg/m^3	2.0	**15.4**	2.0	**14.3**	**7%**	2.0	**17.8**	2.0	**21.1**	**17%**
Bromoform	µg/m^3	2.0	**5.9**	2.0	**5.3**	--	2.0	**2.1**	2.0	<2.0	--
n-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
sec-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butylbenzene	µg/m^3	5.0	**60.1**	5.0	**59.7**	**1%**	5.0	<5.0	5.0	<5.0	--
Carbon tetrachloride	µg/m^3	1.0	**38.4**	1.0	**37.4**	**3%**	1.0	**444**	1.0	**436**	**2%**
Chlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Chloroform	µg/m^3	2.0	**975**	2.0	**909**	**7%**	2.0	**1840**	2.0	**1900**	**3%**
2-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
4-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Dibromochloromethane	µg/m^3	2.0	**12.4**	2.0	**12.8**	**3%**	2.0	**4.8**	2.0	**6.0**	--
1,2-Dibromo-3-chloropropane	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
1,2-Dibromoethane (EDB)	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dibromomethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
1,2- Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,4-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dichlorodifluoromethane(Freon-12)	µg/m^3	5.0	**26.7**	5.0	**25.7**	**4%**	5.0	**87.4**	5.0	**87.1**	**0%**
1,1-Dichloroethane	µg/m^3	1.0	**84.7**	1.0	**81.6**	**4%**	1.0	**363**	1.0	**364**	**0%**
1,2-Dichloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	**12.2**	1.0	**12.7**	**4%**
1,1-Dichloroethene	µg/m^3	1.0	**263**	1.0	**252**	**4%**	1.0	**725**	1.0	**716**	**1%**
cis-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
trans-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichloropropane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
2,2-Dichloropropane	µg/m^3	8.0	<8.0	8.0	<8.0	--	8.0	<8.0	8.0	<8.0	--
1,1-Dichloropropene	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
cis-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
trans-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Ethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**2.9**	2.0	**3.8**	--
Freon-113	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Hexachlorobutadiene	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
Isopropylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
4-Isopropyltoluene	µg/m^3	2.0	**13.2**	2.0	**13.5**	**2%**	2.0	**2.0**	2.0	**2.6**	--
Methylene chloride	µg/m^3	20.0	<20.0	20.0	<20.0	--	20.0	<20.0	20.0	<20.0	--
Naphthalene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
n-Propylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Styrene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**3.7**	2.0	**4.8**	--
1,1,1,2-Tetrachloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
1,1,2,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
Tetrachloroethene (PCE)	µg/m^3	5.0	**35.9**	5.0	**33.6**	**7%**	5.0	**66.2**	5.0	**66.1**	**0%**
Toluene	µg/m^3	5.0	**13.3**	5.0	**15.1**	--	5.0	**17.6**	5.0	**20.5**	--
1,2,3-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,2,4-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	10.0	<10.0	10.0	<10.0	--
1,1,1-Trichloroethane	µg/m^3	2.0	**20.5**	2.0	**19.4**	**6%**	2.0	**15.9**	2.0	**16.4**	**3%**
1,1,2-Trichloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--	4.0	<4.0	4.0	<4.0	--
Trichloroethene (TCE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	**18.8**	5.0	**19.4**	--
Trichlorofluoromethane(Freon-11)	µg/m^3	5.0	**75.3**	5.0	**74**	**2%**	5.0	**329**	5.0	**323**	**2%**
1,2,3-Trichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,2,4-Trimethylbenzene	µg/m^3	2.0	**15.1**	2.0	**15.8**	**5%**	2.0	**3.3**	2.0	**4.2**	--
1,3,5-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Vinyl chloride	µg/m^3	0.5	<0.5	0.5	<0.5	--	0.5	<0.5	0.5	<0.5	--
m,p-Xylene	µg/m^3	2.0	**3.8**	2.0	**4.5**	--	2.0	**8.3**	2.0	**11.1**	--
o-Xylene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**2.4**	2.0	**3.2**	--
Methyl tert butyl ether(MTBE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Ethyl-tert-butyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Di-isopropylether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-amyl methyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butyl alcohol	µg/m^3	100	<100	100	<100	--	100	<100	100	<100	--
n-Pentane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
n-Hexane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
n-Heptane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--

Notes:
VOCs: Volatile organic compounds
RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)
--: Not analyzed or not applicable
<: Not detected above RL
µg/m^3: micrograms per cubic meter

Table 14
RFI Soil Vapor Sample Field Quality Control Results - VOCs

Sample Type: / Sample Date:		Field Duplicates Results 10/7/2022					Field Duplicates Results 2/11/2022				
Parameter	**Units**	**RL**	**MS-23D-250**	**RL**	**Duplicate MS-23D-250 REP**	**RPD (%)**	**RL**	**MS-32-20**	**RL**	**Duplicate MS-32-20-REP**	**RPD (%)**
Benzene	µg/m^3	1.5	**2.6**	1.5	**2.8**	--	1.0	**6.2**	1.0	**5.9**	**5%**
Bromobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
Bromodichloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
Bromoform	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
n-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	1.5	<1.5	1.5	<1.5	--
sec-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	1.5	<1.5	1.5	<1.5	--
tert-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--	1.5	<1.5	1.5	<1.5	--
Carbon tetrachloride	µg/m^3	1.0	**1690**	1.0	**1870**	**10%**	1.0	**56.4**	1.0	**59.8**	**6%**
Chlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
Chloroform	µg/m^3	2.0	**241**	2.0	**260**	**8%**	1.0	**38.2**	1.0	**38.6**	**1%**
2-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	1.5	<1.5	1.5	<1.5	--
4-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--	1.5	<1.5	1.5	<1.5	--
Dibromochloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dibromo-3-chloropropane	µg/m^3	5.0	<5.0	5.0	<5.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dibromoethane (EDB)	µg/m^3	0.5	<0.5	0.5	<0.5	--	1.0	<1.0	1.0	<1.0	--
Dibromomethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
1,2- Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,3-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,4-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
Dichlorodifluoromethane(Freon-12)	µg/m^3	5.0	**22.1**	5.0	**24.9**	--	2.0	**10.6**	2.0	**10.7**	**1%**
1,1-Dichloroethane	µg/m^3	1.0	**150**	1.0	**167**	**11%**	1.0	**7.3**	1.0	**7.7**	**5%**
1,2-Dichloroethane	µg/m^3	1.0	**5.9**	1.0	**6.1**	**3%**	1.0	<1.0	1.0	<1.0	--
1,1-Dichloroethene	µg/m^3	1.0	**321**	1.0	**359**	**11%**	1.0	**213**	1.0	**225**	**5%**
cis-1,2-Dichloroethene	µg/m^3	1.0	**1.0**	1.0	**1.0**	--	1.0	<1.0	1.0	<1.0	--
trans-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
1,3-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
2,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	<2.0	2.0	<2.0	--
1,1-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.3	<1.3	1.3	<1.3	--
cis-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
trans-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
Ethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	**7.7**	1.0	**7.2**	**7%**
Freon-113	µg/m^3	5.0	**5.7**	5.0	**6.9**	--	2.0	<2.0	2.0	<2.0	--
Hexachlorobutadiene	µg/m^3	4.0	<4.0	4.0	<4.0	--	3.0	<3.0	3.0	<3.0	--
Isopropylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	**1.8**	1.0	**2.0**	--
4-Isopropyltoluene	µg/m^3	2.0	**3.1**	2.0	**3.7**	--	1.0	**18.9**	1.0	**16.9**	**11%**
Methylene chloride	µg/m^3	2.0	**16.5**	2.0	**18.8**	**13%**	1.0	<1.0	1.0	<1.0	--
Naphthalene	µg/m^3	2.0	<2.0	2.0	<2.0	--	5.0	<5.0	5.0	<5.0	--
n-Propylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
Styrene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	**4.2**	1.0	**3.9**	--
1,1,1,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	1.0	<1.0	1.0	<1.0	--
1,1,2,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--	2.0	<2.0	2.0	<2.0	--
Tetrachloroethene (PCE)	µg/m^3	5.0	**51.5**	5.0	**55.4**	**7%**	1.0	**21.7**	1.0	**23.7**	**9%**
Toluene	µg/m^3	5.0	**5.8**	5.0	**6.3**	--	1.0	**99.8**	1.0	**87.4**	**13%**
1,2,3-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	2.0	<2.0	2.0	<2.0	--
1,2,4-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--	2.0	<2.0	2.0	<2.0	--
1,1,1-Trichloroethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	**1.5**	1.0	**1.4**	--
1,1,2-Trichloroethane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
Trichloroethene (TCE)	µg/m^3	5.0	**19.2**	5.0	**22.2**	--	1.0	**2.4**	1.0	**2.1**	--
Trichlorofluoromethane(Freon-11)	µg/m^3	5.0	**27.1**	5.0	**29.9**	**10%**	2.0	**11.4**	2.0	**12.1**	**6%**
1,2,3-Trichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	<1.0	1.0	<1.0	--
1,2,4-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	2.0	**2.9**	2.0	**3.2**	--
1,3,5-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	**1.5**	1.0	**1.6**	--
Vinyl chloride	µg/m^3	0.5	<0.5	0.5	<0.5	--	1.0	<1.0	1.0	<1.0	--
m,p-Xylene	µg/m^3	5.0	<5.0	5.0	<5.0	--	2.0	**31.9**	2.0	**29.5**	**8%**
o-Xylene	µg/m^3	2.0	<2.0	2.0	<2.0	--	1.0	**12.5**	1.0	**11.9**	**5%**
Methyl tert butyl ether(MTBE)	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Ethyl-tert-butyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
Di-isopropylether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-amyl methyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--	5.0	<5.0	5.0	<5.0	--
tert-Butyl alcohol	µg/m^3	25.0	<25.0	25.0	<25.0	--	50.0	<50.0	50.0	<50.0	--
n-Pentane (Tracer Gas)	µg/m^3	50.0	<50.0	50.0	<50.0	--	10.0	<10.0	10.0	<10.0	--
n-Hexane (Tracer Gas)	µg/m^3	50.0	<50.0	50.0	<50.0	--	10.0	<10.0	10.0	<10.0	--
n-Heptane (Tracer Gas)	µg/m^3	50.0	<50.0	50.0	<50.0	--	10.0	<10.0	10.0	<10.0	--

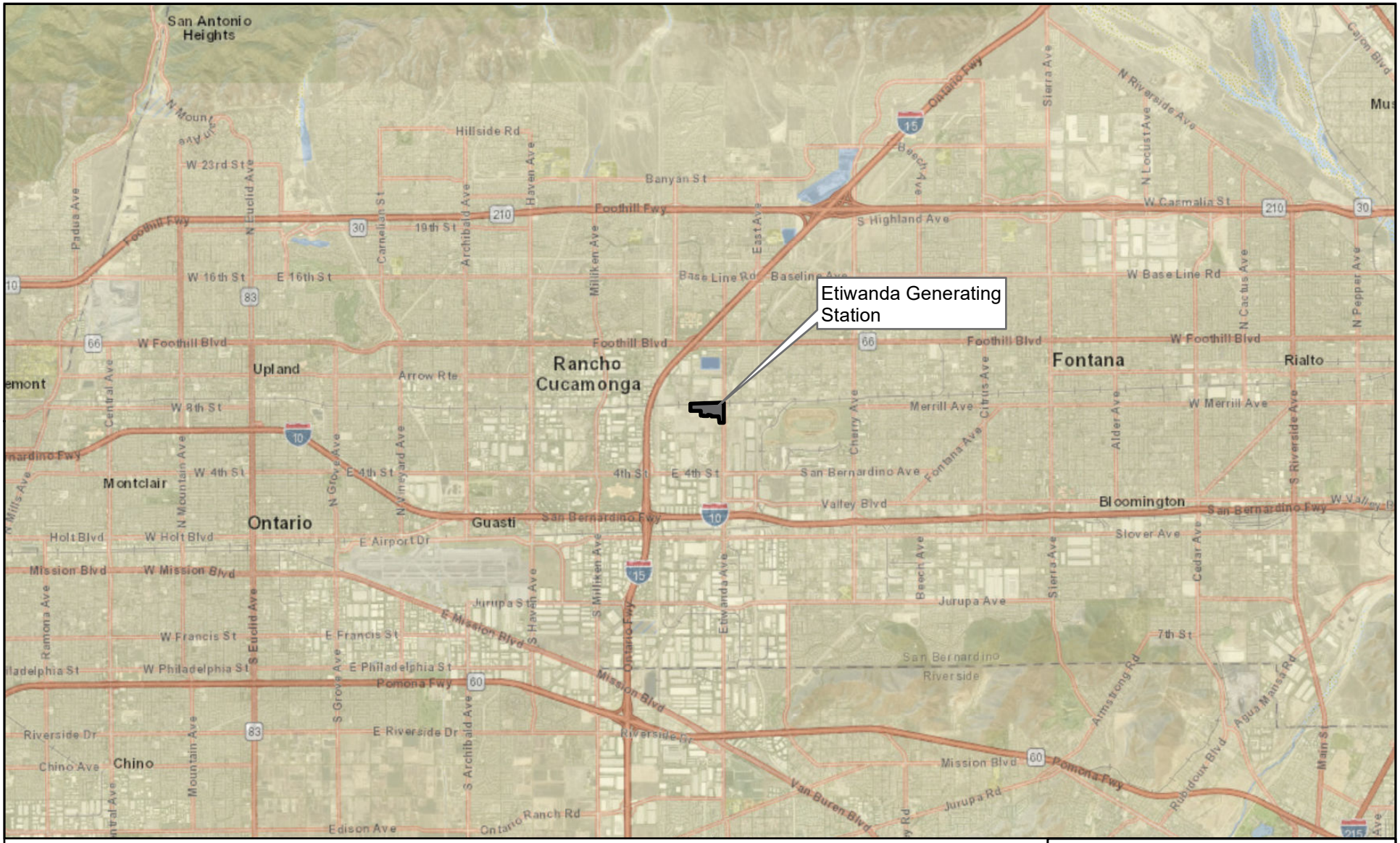
Notes:
VOCs: Volatile organic compounds
RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)
--: Not analyzed or not applicable
<: Not detected above RL
µg/m^3: micrograms per cubic meter

Table 14
RFI Soil Vapor Sample Field Quality Control Results - VOCs

Sample Type:		Field Duplicates Results				
Sample Date:		8/27/2021				
Parameter	**Units**	**RL**	**SS-5-5**	**RL**	**Duplicate SS-5-5-REP**	**RPD (%)**
Benzene	µg/m^3	0.5	<0.5	0.5	<0.5	--
Bromobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Bromodichloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--
Bromoform	µg/m^3	2.0	<2.0	2.0	<2.0	--
n-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--
sec-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--
tert-Butylbenzene	µg/m^3	5.0	<5.0	5.0	<5.0	--
Carbon tetrachloride	µg/m^3	1.0	<1.0	1.0	<1.0	--
Chlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Chloroform	µg/m^3	2.0	<2.0	2.0	<2.0	--
2-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--
4-Chlorotoluene	µg/m^3	5.0	<5.0	5.0	<5.0	--
Dibromochloromethane	µg/m^3	2.0	<2.0	2.0	<2.0	--
1,2-Dibromo-3-chloropropane	µg/m^3	5.0	<5.0	5.0	<5.0	--
1,2-Dibromoethane (EDB)	µg/m^3	2.0	<2.0	2.0	<2.0	--
Dibromomethane	µg/m^3	4.0	<4.0	4.0	<4.0	--
1,2- Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
1,3-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
1,4-Dichlorobenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Dichlorodifluoromethane(Freon-12)	µg/m^3	5.0	**5.3**	5.0	<5.0	--
1,1-Dichloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--
1,2-Dichloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--
1,1-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--
cis-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--
trans-1,2-Dichloroethene	µg/m^3	1.0	<1.0	1.0	<1.0	--
1,2-Dichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--
1,3-Dichloropropane	µg/m^3	4.0	<4.0	4.0	<4.0	--
2,2-Dichloropropane	µg/m^3	8.0	<8.0	8.0	<8.0	--
1,1-Dichloropropene	µg/m^3	5.0	<5.0	5.0	<5.0	--
cis-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--
trans-1,3-Dichloropropene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Ethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Freon-113	µg/m^3	5.0	<5.0	5.0	<5.0	--
Hexachlorobutadiene	µg/m^3	4.0	<4.0	4.0	<4.0	--
Isopropylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
4-Isopropyltoluene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Methylene chloride	µg/m^3	2.0	<2.0	2.0	<2.0	--
Naphthalene	µg/m^3	2.0	<2.0	2.0	<2.0	--
n-Propylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Styrene	µg/m^3	2.0	<2.0	2.0	<2.0	--
1,1,1,2-Tetrachloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--
1,1,2,2-Tetrachloroethane	µg/m^3	1.0	<1.0	1.0	<1.0	--
Tetrachloroethene (PCE)	µg/m^3	5.0	**38.8**	5.0	**38.7**	**0%**
Toluene	µg/m^3	5.0	<5.0	5.0	<5.0	--
1,2,3-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--
1,2,4-Trichlorobenzene	µg/m^3	10.0	<10.0	10.0	<10.0	--
1,1,1-Trichloroethane	µg/m^3	2.0	**21.8**	2.0	**23.2**	**6%**
1,1,2-Trichloroethane	µg/m^3	4.0	<4.0	4.0	<4.0	--
Trichloroethene (TCE)	µg/m^3	5.0	<5.0	5.0	<5.0	--
Trichlorofluoromethane(Freon-11)	µg/m^3	5.0	<5.0	5.0	<5.0	--
1,2,3-Trichloropropane	µg/m^3	2.0	<2.0	2.0	<2.0	--
1,2,4-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
1,3,5-Trimethylbenzene	µg/m^3	2.0	<2.0	2.0	<2.0	--
Vinyl chloride	µg/m^3	0.5	<0.5	0.5	<0.5	--
m,p-Xylene	µg/m^3	2.0	**6.4**	2.0	**4.8**	--
o-Xylene	µg/m^3	2.0	**3.6**	2.0	**3.2**	--
Methyl tert butyl ether(MTBE)	µg/m^3	5.0	<5.0	5.0	<5.0	--
Ethyl-tert-butyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--
Di-isopropylether	µg/m^3	5.0	<5.0	5.0	<5.0	--
tert-amyl methyl ether	µg/m^3	5.0	<5.0	5.0	<5.0	--
tert-Butyl alcohol	µg/m^3	100	<100	100	<100	--
n-Pentane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--
n-Hexane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--
n-Heptane (Tracer Gas)	µg/m^3	5.0	<5.0	5.0	<5.0	--

Notes:
VOCs: Volatile organic compounds
RPD: Relative Percent Difference are calculated for positive results greater than five times the Reporting Limit (RL)
--: Not analyzed or not applicable
<: Not detected above RL
µg/m^3: micrograms per cubic meter

FIGURES



Legend

Approximate Boundary
Etiwanda Generating Station

Figure 1

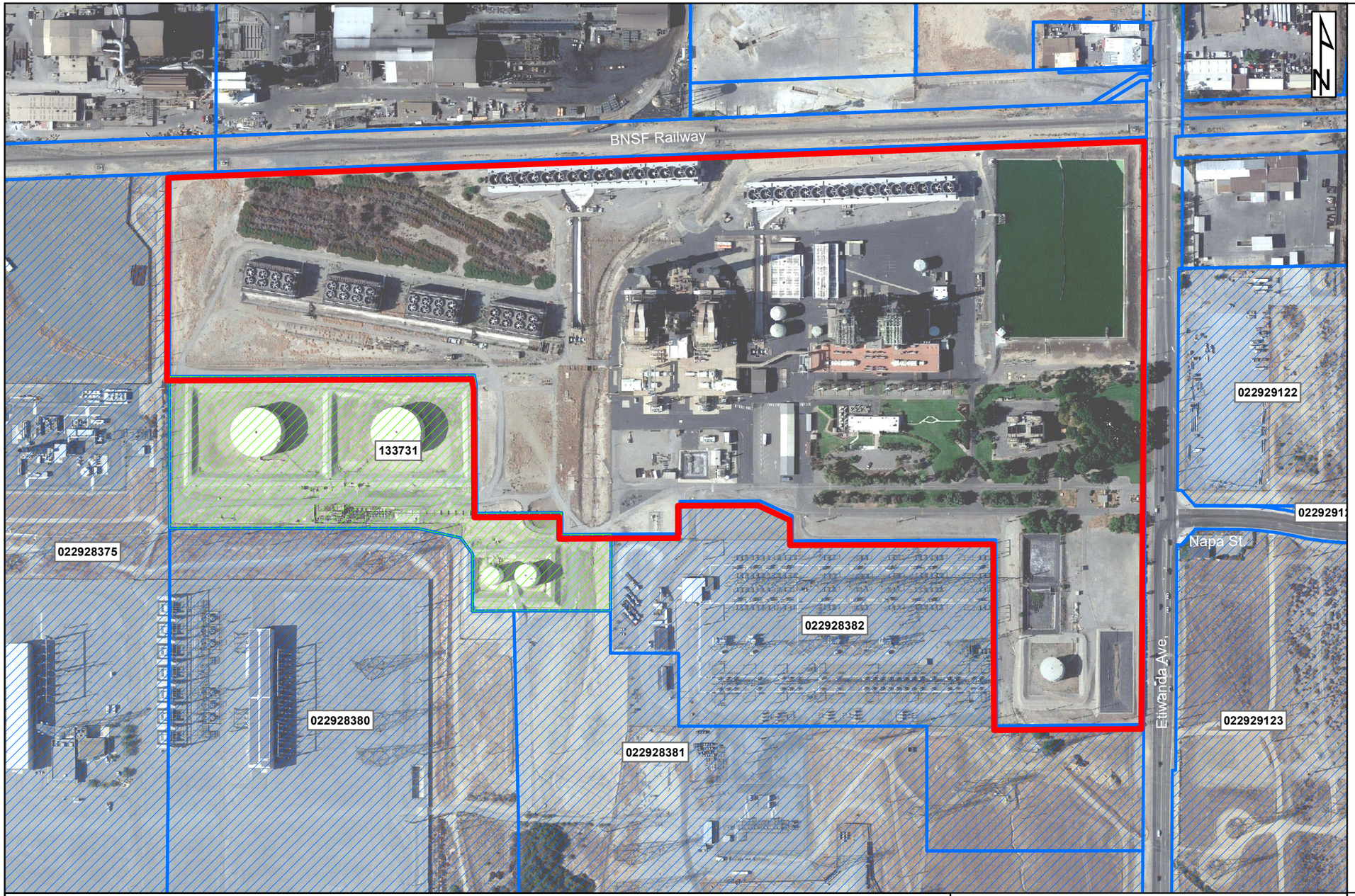
Geographic Location Map

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\Figure 1_Etiwanda_rev.mxd



NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

- Approximate Site Boundary
- Inland Empire Utility Agency

Adjacent Properties
(Parcel Number Shown)

- Southern California Edison

Feet
0 150 300 600 900

1 inch = 300 feet
1:3,600

Figure 2

Site Map With Adjacent Properties

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2169.09

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 2_PropBND_0523.mxd



NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

- Approximate Site Boundary
- Former SCE Basin Groundwater Monitoring Well Locations

Feet
0 75 150 300 450
1 inch = 150 feet
1:1,800

Figure 3

Former SCE Groundwater Monitoring Well Locations (Abandoned)

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 3_MWLocs 0523.mxd



Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
1	Distillate Tank
2	Former Boiler Chemical Cleaning Basin (Closed)
3	South Retention Basin (Closed)
4	North Retention Basin (Closed)
5	Fueling Station
6	Unit 5 (Peaker)
7	Administration Building
8	Decommisioned RO Equip and Basin
9	Laydown Area
10	Units 1 and 2 Cooling Towers
11	Chadwick Channel
12	Unit 4 Cooling Towers
13	Generating Units 3 & 4
14	Haz Waste Accumulation Area
15	Generating Units 1 & 2
16	Warehouse
17	Maintenance Shop
18	Welding Shop
19	Unit 3 Cooling Towers
20	Capped Natural Gas Easment
21	Cooling Tower Makeup Water Pond
22	Construction and Operations Waste
23	Auxiliary Transformer
24	Sulfuric Acid Tank
25	Units 3/4 Transformer
26	Units 1/2 Transformer
27	Acid Caustic Tanks Area
28	Well Water Storage Tank
29	Distilled Water Tanks
30	Cooling Water Tank
31	Fire House (foam)
32	Fire Water Pumps
33	Sludge Drainage Area
34	Northern Fill
35	Sodium Hypochlorite Tank
36	Former Hazardous Waste Area
37	Septic Pits
38	Flumes

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

(23) Site Features (see table)

Approximate Site Boundary

Feet
0 125 250 500 750

1 inch = 250 feet
1:3,000

Figure 4

Site-Wide RFI Areas of Interest

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 4_AOI 0523_BU.mxd

Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
1	Distillate Tank
2	Former Boiler Chemical Cleaning Basin (Closed)
3	South Retention Basin (Closed)
4	North Retention Basin (Closed)
5	Fueling Station
6	Unit 5 (Peaker)
7	Administration Building
8	Decommisioned RO Equip and Basin
9	Laydown Area
10	Units 1 and 2 Cooling Towers
11	Chadwick Channel
12	Unit 4 Cooling Towers
13	Generating Units 3 & 4
14	Haz Waste Accumulation Area
15	Generating Units 1 & 2
16	Warehouse
17	Maintenance Shop
18	Welding Shop
19	Unit 3 Cooling Towers
20	Capped Natural Gas Easement
21	Cooling Tower Makeup Water Pond
22	Construction and Operations Waste
23	Auxiliary Transformer
24	Sulfuric Acid Tank
25	Units 3/4 Transformer
26	Units 1/2 Transformer
27	Acid Caustic Tanks Area
28	Well Water Storage Tank
29	Distilled Water Tanks
30	Cooling Water Tank
31	Fire House (foam)
32	Fire Water Pumps
33	Sludge Drainage Area
34	Northern Fill
35	Sodium Hypochlorite Tank
36	Former Hazardous Waste Area
37	Septic Pits
38	Flumes

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Inset A

0 15 30 Feet

Legend

- Site Features (see table)
- Approximate Site Boundary

SCE RFI 2021-2022
- Soil Sample
- Soil and Soil Vapor Sample
- Soil Vapor Sample
- Canceled Boring

Path Forward Nov 2020
- Soil Sample
- Soil and Soil Vapor Sample
- Refusal

ERM/Ardent October 2019
- Soil Sample
- Soil Vapor Sample
- Soil Sample Horizontal Composites

SCE Oct-Nov 2020
- Soil Sample

ERM Soil Cleanup Sample Locations
- Excavation Confirmation Soil Sample

0 100 200 Feet

1 inch = 100 feet
1:1,200

Figure 5

RFI and Pre-RFI Sample Location Map

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\Arc\GIS\Packages\SCE Etiwanda\GIS\Map Files\RFI Work Plan\Figure 5_SampleLoc_0523.mxd



Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
1	Distillate Tank
2	Former Boiler Chemical Cleaning Basin (Closed)
3	South Retention Basin (Closed)
4	North Retention Basin (Closed)
5	Fueling Station
6	Unit 5 (Peaker)
7	Administration Building
8	Decommisioned RO Equip and Basin
9	Laydown Area
10	Units 1 and 2 Cooling Towers
11	Chadwick Channel
12	Unit 4 Cooling Towers
13	Generating Units 3 & 4
14	Haz Waste Accumulation Area
15	Generating Units 1 & 2
16	Warehouse
17	Maintenance Shop
18	Welding Shop
19	Unit 3 Cooling Towers
20	Capped Natural Gas Easment
21	Cooling Tower Makeup Water Pond
22	Construction and Operations Waste
23	Auxiliary Transformer
24	Sulfuric Acid Tank
25	Units 3/4 Transformer
26	Units 1/2 Transformer
27	Acid Caustic Tanks Area
28	Well Water Storage Tank
29	Distilled Water Tanks
30	Cooling Water Tank
31	Fire House (foam)
32	Fire Water Pumps
33	Sludge Drainage Area
34	Northern Fill
35	Sodium Hypochlorite Tank
36	Former Hazardous Waste Area
37	Septic Pits
38	Flumes

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

(23) Site Features (see table)

Approximate Site Boundary

Pre-RFI Site Characterization Activites

- Path Forward Nov 2020
- SCE Oct-Nov 2020
- ERM June-July 2020
- ERM/Ardent October 2019

Feet
0 125 250 500 750

1 inch = 250 feet
1:3,000

Figure 5A

Pre-RFI Subsurface Characterization Programs

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 5A_PreRFI_0523.mxd



Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
10	Units 1 and 2 Cooling Towers
12	Unit 4 Cooling Towers
22	Construction and Operations Waste
23	Auxiliary Transformer
24	Sulfuric Acid Tank
29	Distilled Water Tanks
33	Sludge Drainage Area
34	Northern Fill
35	Sodium Hypochlorite Tank
36	Former Hazardous Waste Area
38	Flumes

Soil results were all less than the commercial screening levels

Laboratory soil reporting limits were all less than the commercial screening levels.

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

- 23 — Site Features (see table)
- Approximate Site Boundary

SCE Oct-Nov 2020
- Soil Sample

ERM/Ardent October 2019
- Soil Sample
- Soil Vapor Sample
- Soil Sample Horizontal Composites

0 25 50 100 150 200 Feet

1 inch = 100 feet
1:1,200

Figure 5B

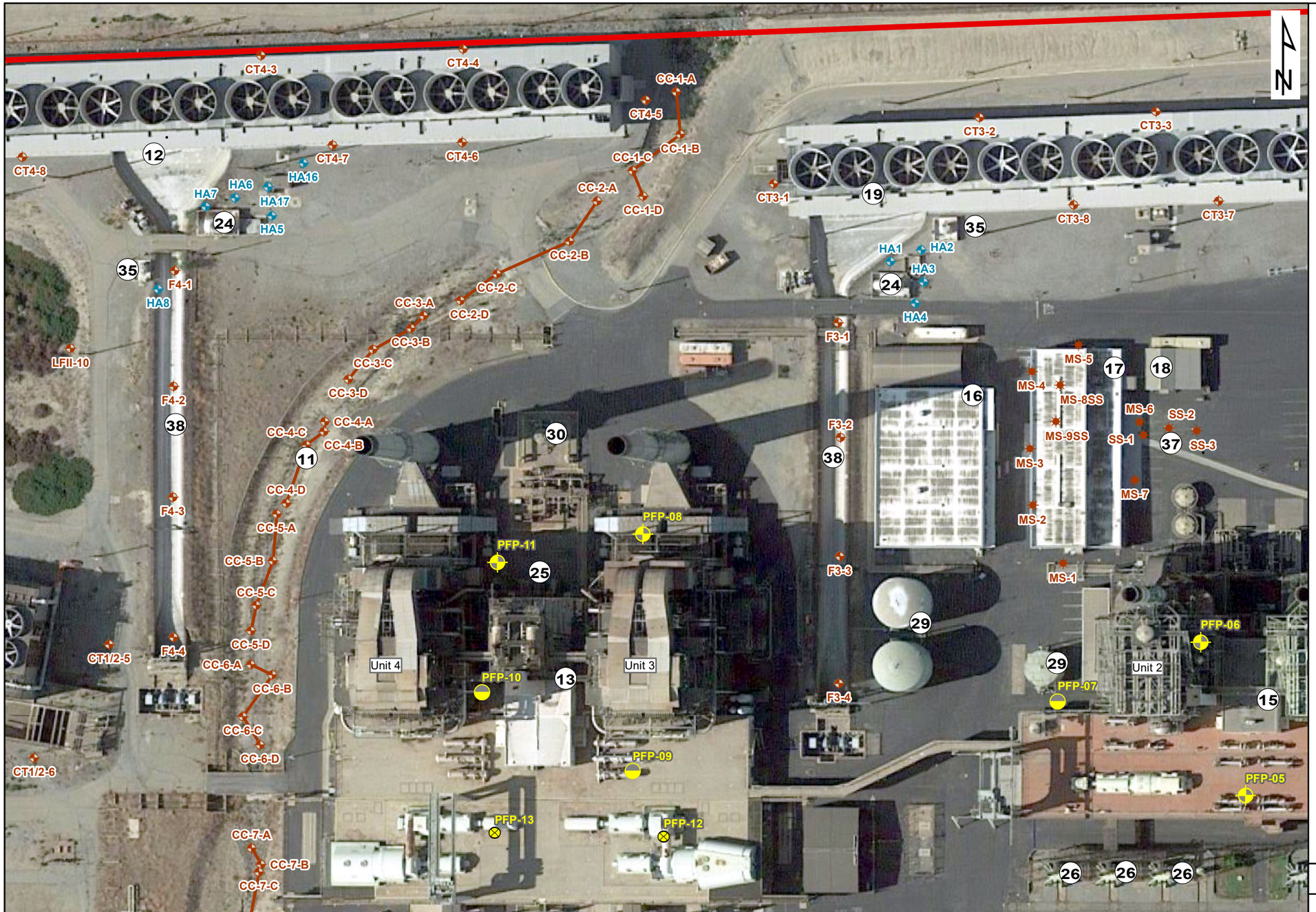
Northwest Property Pre-RFI Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 5B_NW_PreRFI_0523.mxd



Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
11	Chadwick Channel
12	Unit 4 Cooling Towers
13	Generating Units 3 & 4
15	Generating Units 1 & 2
16	Warehouse
17	Maintenance Shop
18	Welding Shop
19	Unit 3 Cooling Towers
24	Sulfuric Acid Tank
25	Units 3/4 Transformer
26	Units 1/2 Transformer
29	Distilled Water Tanks
30	Cooling Water Tank
35	Sodium Hypochlorite Tank
36	Former Hazardous Waste Area
37	Septic Pits
38	Flumes

TPH-diesel soil results from composite CC-2 (CC-2-A, CC-2-B, CC-2-C, and CC-2-D) exceeded the EPA RSL but not the RWQCB SSL.

Arsenic results at CT3-2 and CT3-6 exceeded background concentrations.

All remaining soil results were less than the commercial screening levels.

Laboratory soil reporting limits were all less than the commercial screening levels, with the exception of NDMA for PFP-5 through PFP-11. The commercial screening level of NDMA is 0.034 mg/kg and the laboratory RLs were slightly higher and ranged between 0.081 and 0.094 mg/kg. However, NDMA is not a COPC for the Site.

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

(23) Site Features (see table)

Approximate Site Boundary

Path Forward Nov 2020
- Soil Sample
- Soil and Soil Gas Sample
- Refusal

SCE Oct-Nov 2020
- Soil Sample

ERM/Ardent October 2019
- Soil Sample
- Soil Vapor Sample

Soil Sample Horizontal Composites

0 50 100 150 200 Feet

1 inch = 80 feet
1:960

Figure 5C

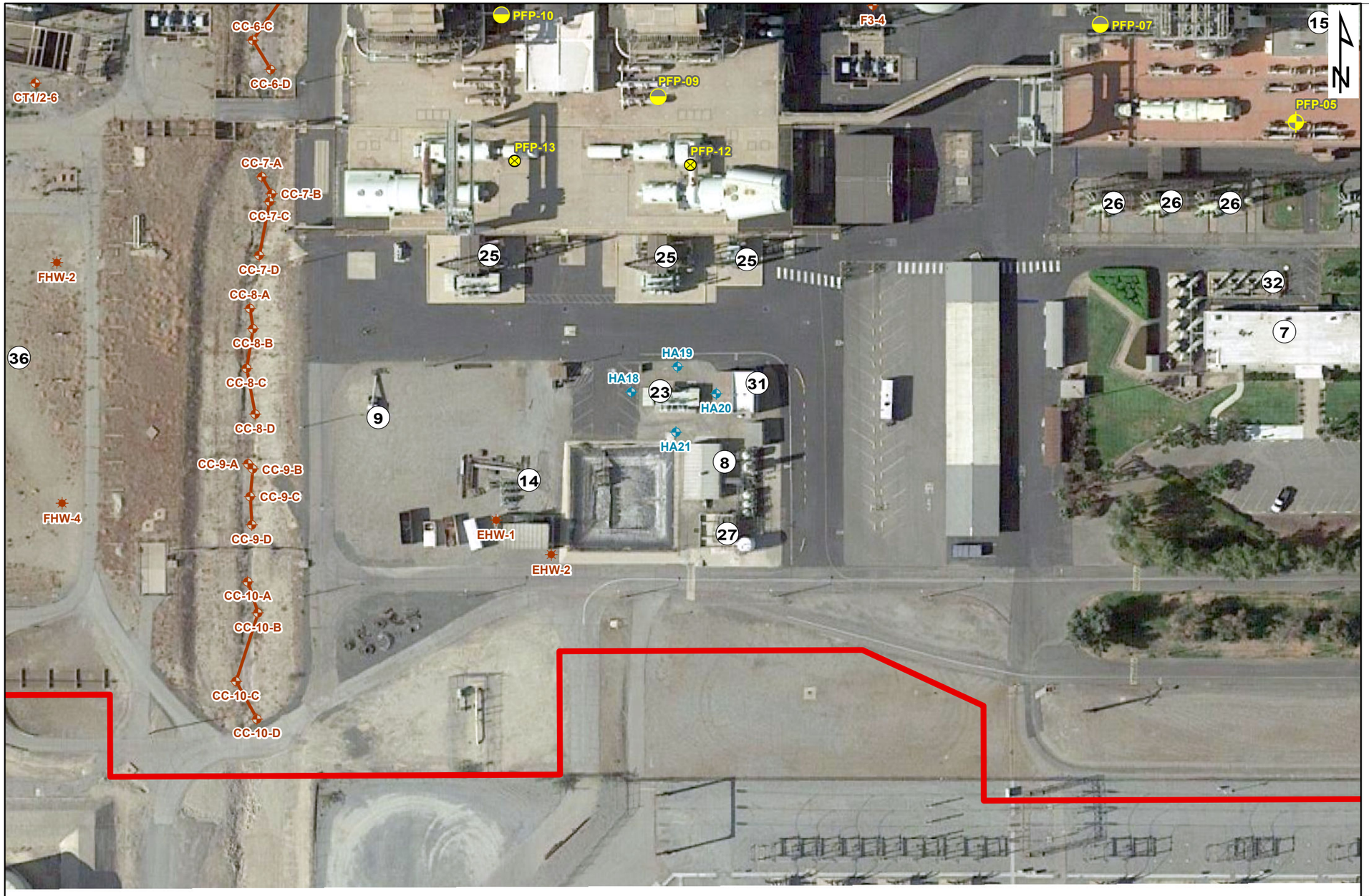
North Central Property Pre-RFI Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 5C_N_PreRFI_0523.mxd



Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
7	Administration Building
8	Decommisioned RO Equip and Basin
9	Laydown Area
11	Chadwick Channel
14	Haz Waste Accumulation Area
23	Auxiliary Transformer
25	Units 3/4 Transformer
26	Units 1/2 Transformer
27	Acid Caustic Tanks Area
31	Fire House (foam)
32	Fire Water Pumps
36	Former Hazardous Waste Area

Soil and soil vapor results were less than commercial screening levels.

Laboratory soil reporting limits were all less than the commercial screening levels, with the exception of NDMA for PFP-5, PFP-7, PFP-9, and PFP-10. The commercial screening level of NDMA is 0.034 mg/kg and the laboratory RLs were slightly higher and ranged between 0.081 and 0.094 mg/kg. However, NDMA is not a COPC for the Site.

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

(23) Site Features (see table)

Approximate Site Boundary

Path Forward Nov 2020
- Soil Sample
- Soil and Soil Gas Sample
- Refusal

SCE Oct-Nov 2020
- Soil Sample

ERM/Ardent October 2019
- Soil Sample
- Soil Vapor Sample
- Soil Sample Horizontal Composite

0 50 100 150 200 Feet

1 inch = 80 feet
1:960

Figure 5D

South Central Property Pre-RFI Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

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Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
6	Unit 5 (Peaker)
7	Administration Building
15	Generating Units 1 & 2
16	Warehouse
17	Maintenance Shop
18	Welding Shop
19	Unit 3 Cooling Towers
20	Capped Natural Gas Easment
21	Cooling Tower Makeup Water Pond
24	Sulfuric Acid Tank
25	Units 3/4 Transformer
26	Units 1/2 Transformer
28	Well Water Storage Tank
29	Distilled Water Tanks
31	Fire House (foam)
32	Fire Water Pumps
35	Sodium Hypochlorite Tank
37	Septic Pits
38	Flumes

Arsenic results at CT3-2 and CT3-6 exceeded background concentrations.
All remaining soil results were less than the commercial screening levels

Laboratory soil reporting limits were all less than the commercial screening levels, with the exception of NDMA for PFP-3 through PFP-7.

The commercial screening level of NDMA is 0.034 mg/kg and the laboratory RLs were slightly higher and ranged between 0.081 and 0.094 mg/kg. However, NDMA is not a COPC for the Site.

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

LEGEND

(23) Site Features (see table)

Approximate Site Boundary

Path Forward Nov 2020
- Soil Sample
- Soil and Soil Vapor Sample
- Refusal

SCE Oct-Nov 2020
- Soil Sample

ERM/Ardent October 2019
- Soil Sample
- Soil Vapor Sample

0 50 100 150 200 Feet

1 inch = 100 feet
1:1,200

Figure 5E

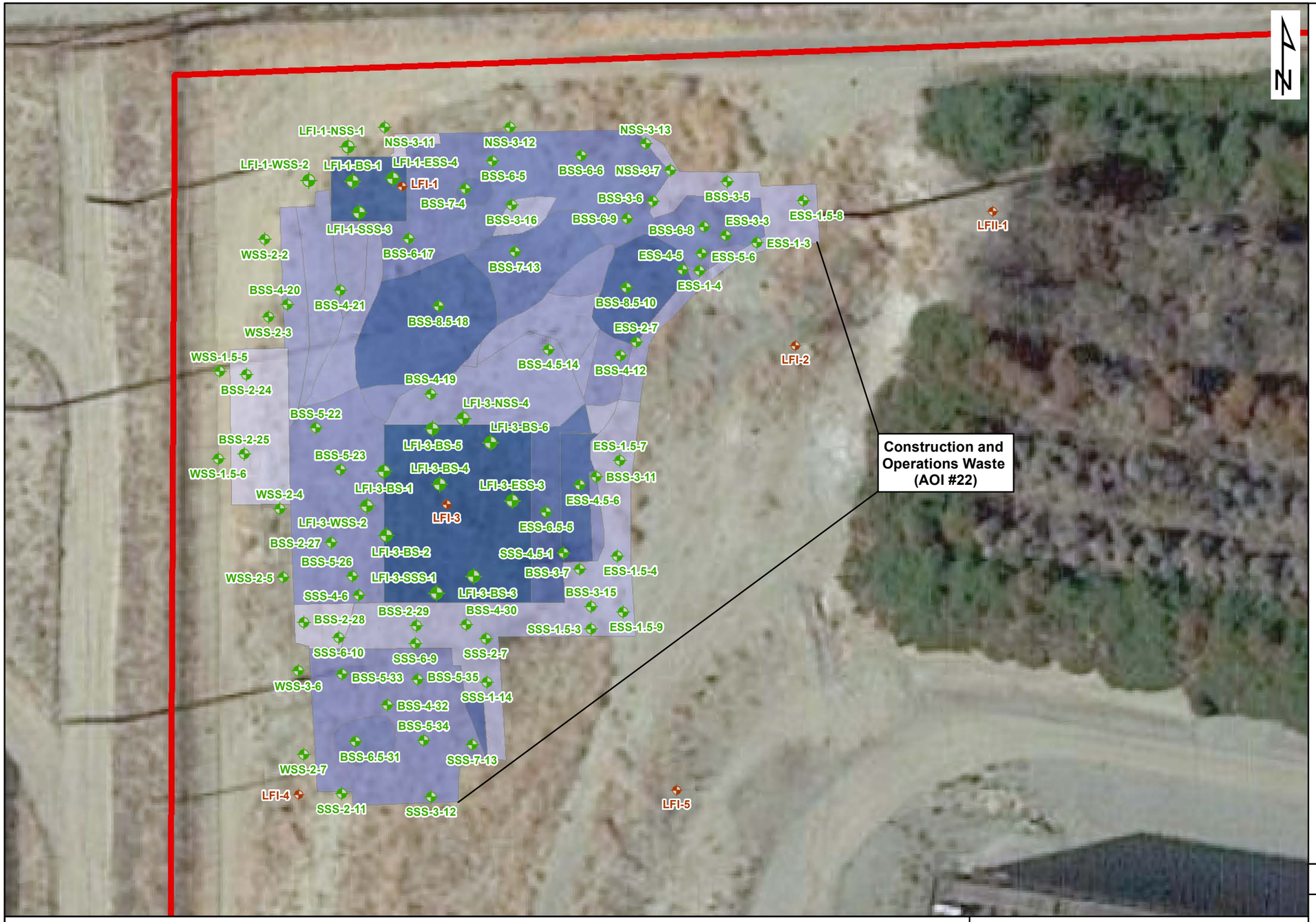
Northeast Property Pre-RFI Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

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Excavated Areas Approximate Depth

- 2 foot
- 3 foot
- 4 foot
- 5 foot
- 6 foot
- 7 foot
- 8 foot
- 8.5 foot
- LFI-1 & LF-3

NOTE 1 :Field Soil Sample Naming:
Bottom Sample - BS or BSS prefix
Sidewall Sample and Wall - ESS, NSS, SSS, WSS
The depth follows and an internal sequential sample number follows that.

NOTE 2:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Samples BSS-6-31, BSS-6-4, ESS-3-1, SSS-1-8, LFI-1-ESS-4, LFI-1-SSS-3, and LFI-3-WSS-2 exceeded soil screening levels for arsenic and/or lead and were removed.

The remaining soil results were less than the commercial screening levels.

Laboratory soil reporting limits were all less than the commercial screening levels.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

Approximate Site Boundary

ERM Soil Cleanup Sample Locations
Excavation Confirmation
Soil Sample

ERM/Ardent October 2019
Soil Sample - Test Pit

Feet
0 25 50 75
1 inch = 30 feet
1:360

Figure 5F

Construction and Operations Waste Cleanup Area Pre-RFI Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER	
5/22/2023	2119.75	northgate environmental management, inc.

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Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
1	Distillate Tank
5	Fueling Station
6	Unit 5 (Peaker)
14	Haz Waste Accumulation Area
16	Warehouse
17	Maintenance Shop
18	Welding Shop
21	Cooling Tower Makeup Water Pond
24	Sulfuric Acid Tank
25	Units 3/4 Transformer
26	Units 1/2 Transformer
27	Acid Caustic Tanks Area
35	Sodium Hypochlorite Tank
36	Former Hazardous Waste Area
37	Septic Pits

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

23 Site Features (see table)

Approximate Site Boundary

0 125 250 500 750 Feet

1 inch = 250 feet
1:3,000

Figure 6

Areas of Interest Addressed in the RFI

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

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North Retention Basin - Closed (AOI #4)

F5-1

F5-2

Former Fueling Station (AOI #5)

South Retention Basin - Closed (AOI #3)

Former Distallate Tank (AOI #1)

DT-1

DT-4

DT-2

DT-3

Former Boiler Chemical Cleaning Basin - Closed (AOI #2)

Etiwanda Ave.

N

Legend

Approximate Site Boundary

SCE RFI 2021-2022

Soil and Soil Vapor Sample

NOTE:
Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Feet
0 50 100 150
1 inch = 60 feet
1:720

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Figure 7

Distillate Tank and Fueling Station Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 7_DistillateTank_0523.mxd



Legend

SCE RFI 2021-2022

- Soil Sample
- Soil and Soil Vapor Sample
- Soil Vapor Sample

Path Forward Nov 2020

- Soil and Soil Vapor Sample

NOTE:
Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Feet
0 20 40 60
1 inch = 30 feet
1:360

DATE	PROJECT NUMBER
5/22/2023	2119.75

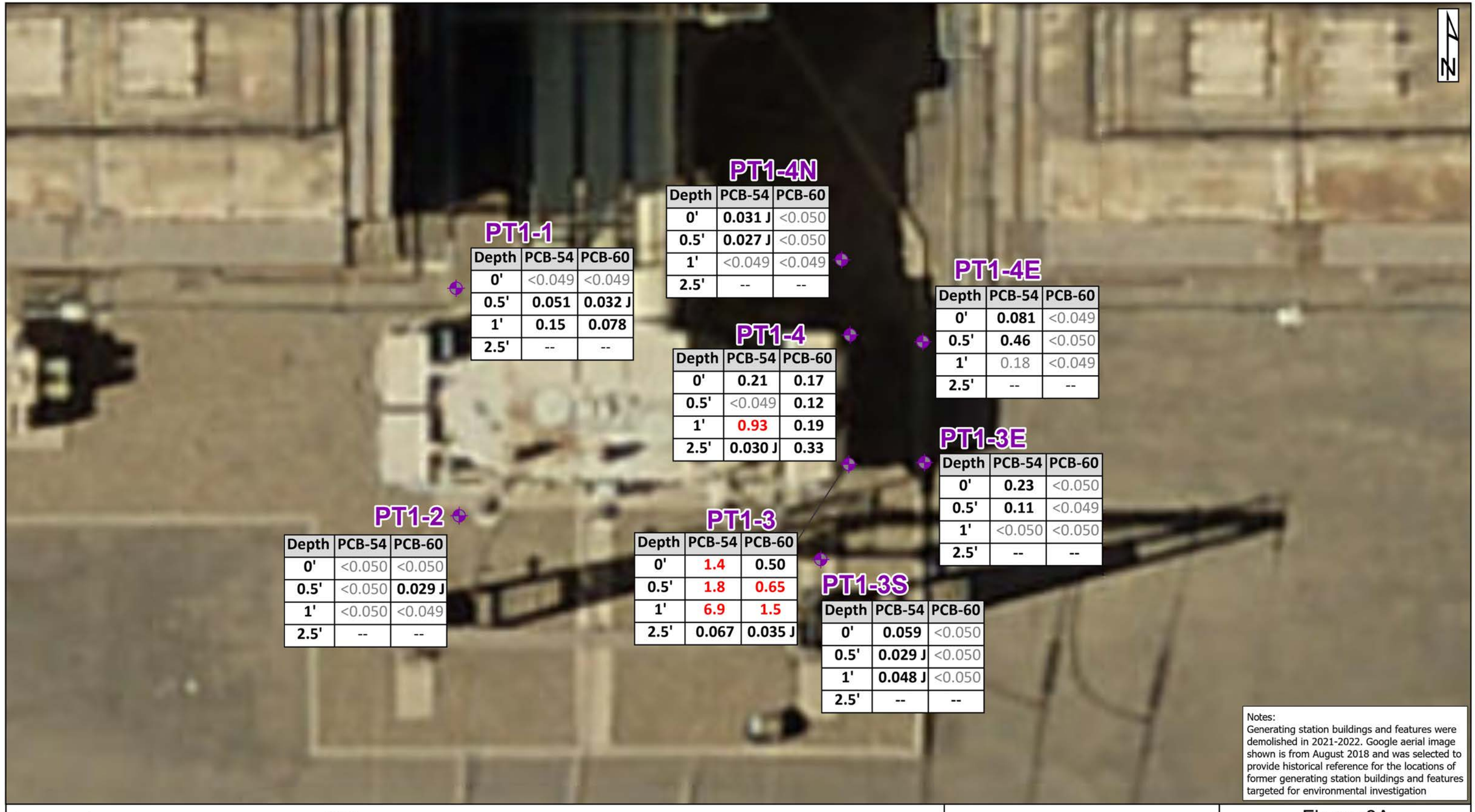
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Figure 8

Peaker Unit 5 Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 8 Peaker5_0523.mxd



Legend

SCE RFI 2021-2022

Soil Boring

Notes:

Polychlorinated biphenyl Aroclor-1254 (PCB-54) and Aroclor-1260 (PCB-60) concentrations represent maximum concentrations (where duplicate samples were collected) and are reported in milligrams per kilogram (mg/kg) at various sampling depths (feet below ground surface). Concentrations of PCB-54 and PCB-60 exceeding the Department of Toxic Substances Control-modified screening level (DTSC-SL) of 0.59 and 0.6 mg/kg, respectively, for commercial/industrial land use are identified in **Red** font.

<0.050: Indicates the target analyte was not detected above the laboratory reporting limit in mg/kg

--: Sample was not analyzed for target analyte

Results flagged with "J" represent estimated concentrations

Feet

0 2.5 5

1 inch = 5 feet

1:60

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Figure 8A

PCB Concentrations in Soil Samples at Peaker Unit 5 Transformer

Former SCE Etiwanda Generating Station

Rancho Cucamonga, California

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\Projects\RFIWP\Figure8a.aprx



Notes:
Tetrachloroethene (PCE) concentrations are reported in micrograms per cubic meter (ug/m^3) at various sampling depths (feet below ground surface). Posted PCE concentrations represent maximum concentrations where multiple or duplicate samples were collected.

The DTSC-modified screening level (DTSC-SL) for commercial/industrial land assuming default soil vapor attenuation factor 0.001 is 2,000 ug/m^3.

The DTSC-SL for commercial/industrial land assuming the most conservative default soil vapor attenuation factor 0.03 is 67 ug/m^3.

ND: PCE was not detected above the laboratory reporting limit of 5 ug/m^3.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

67 PCE Isocontour at 5 Feet Below Ground Surface

SCE RFI 2021-2022
- Soil Sample
- Soil and Soil Vapor Sample
- Soil Vapor Sample

Path Forward Nov 2020
- Soil and Soil Vapor Sample

0 20 40 60 Feet

1 inch = 30 feet
1:360

DATE	PROJECT NUMBER
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Figure 8B

PCE Concentrations in Soil Vapor at Peaker Unit 5

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 8B_Peaker5_0523.mxd



Notes:

Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

Approximate Site Boundary

SCE RFI 2021-2022

Soil Sample

ERM/Ardent October 2019

Soil Sample

Soil Sample Horizontal Composites

Feet
0 50 100
1 inch = 75 feet
1:900

Figure 9

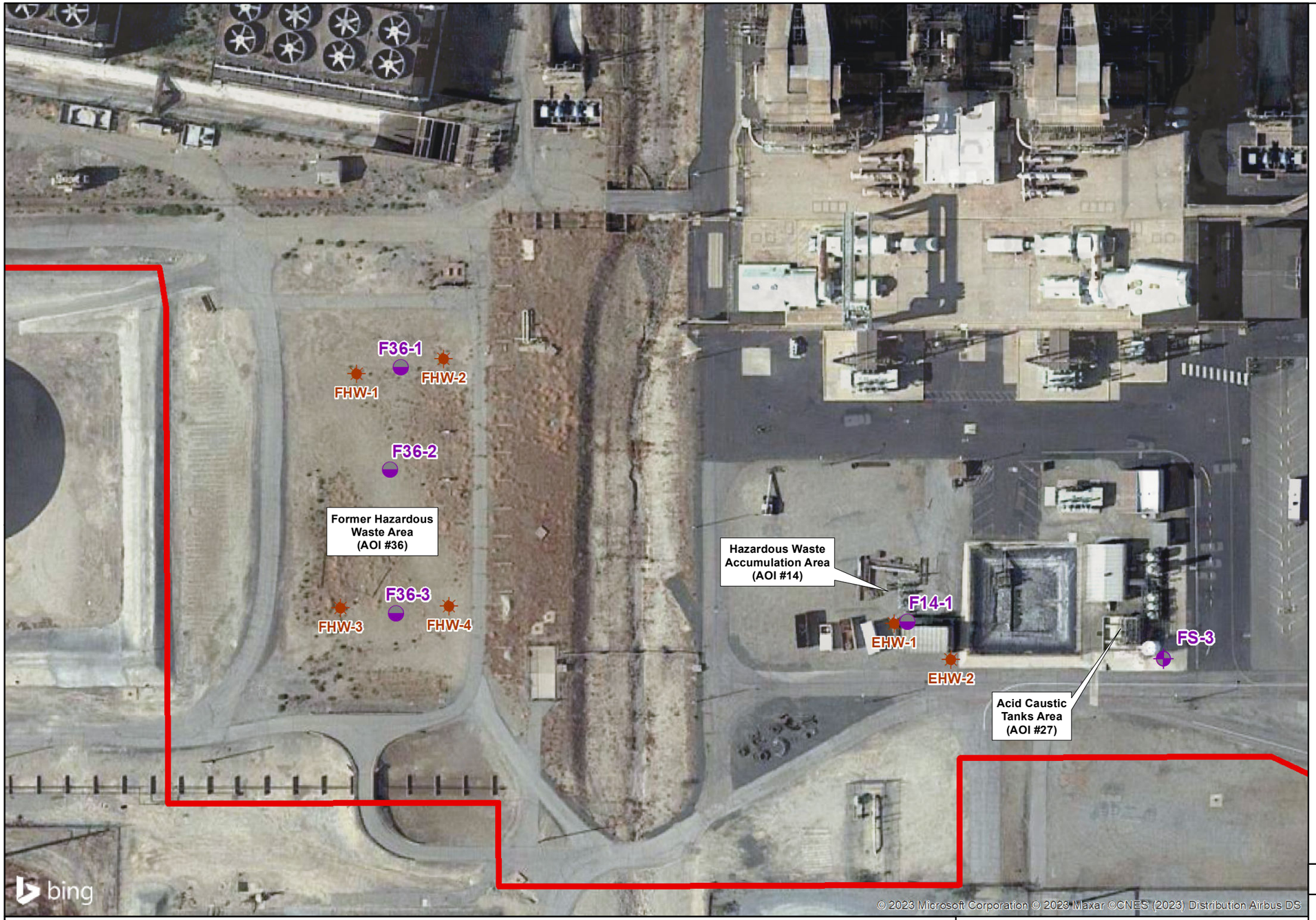
Chadwick Channel Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

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Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 9 ChadwichChannel_0523.mxd



Legend

Approximate Site Boundary

SCE RFI 2021-2022

- Soil Sample
- Soil and Soil Vapor Sample

ERM/Ardent October 2019

- Soil Vapor Sample

Feet
0 25 50 100 150
1 inch = 75 feet
1:900

Notes:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Figure 10

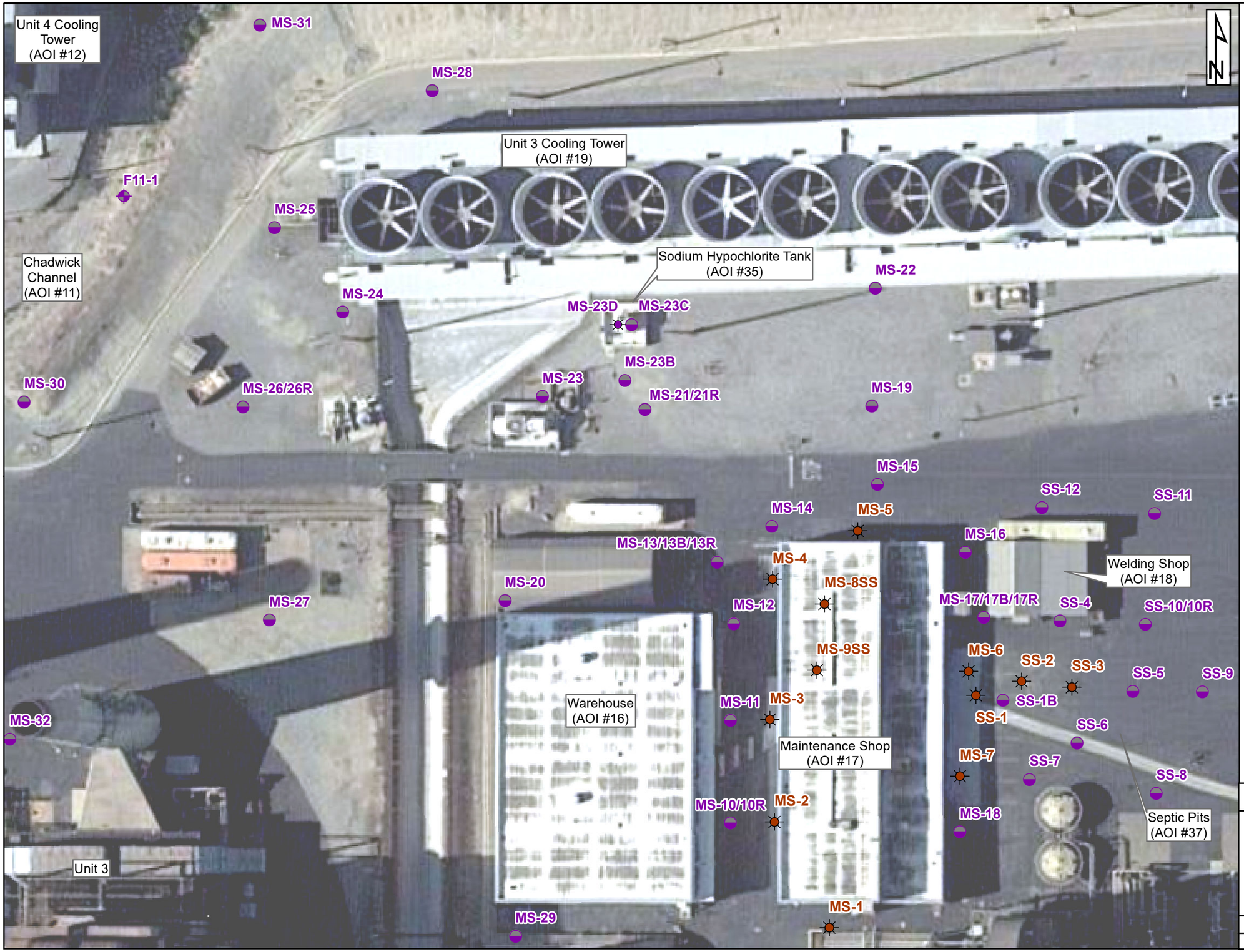
Sampling Locations at Hazardous Waste Storage Areas

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

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Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 10_RecSubCharacProg_0523.mxd



Legend

SCE RFI 2021-2022

- Soil Sample
- Soil Vapor Sample
- Soil and Soil Vapor Sample

ERM/Ardent October 2019

- Soil Vapor Sample

Notes:
Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Feet
0 40 80
1 inch = 40 feet
1:480

Figure 11

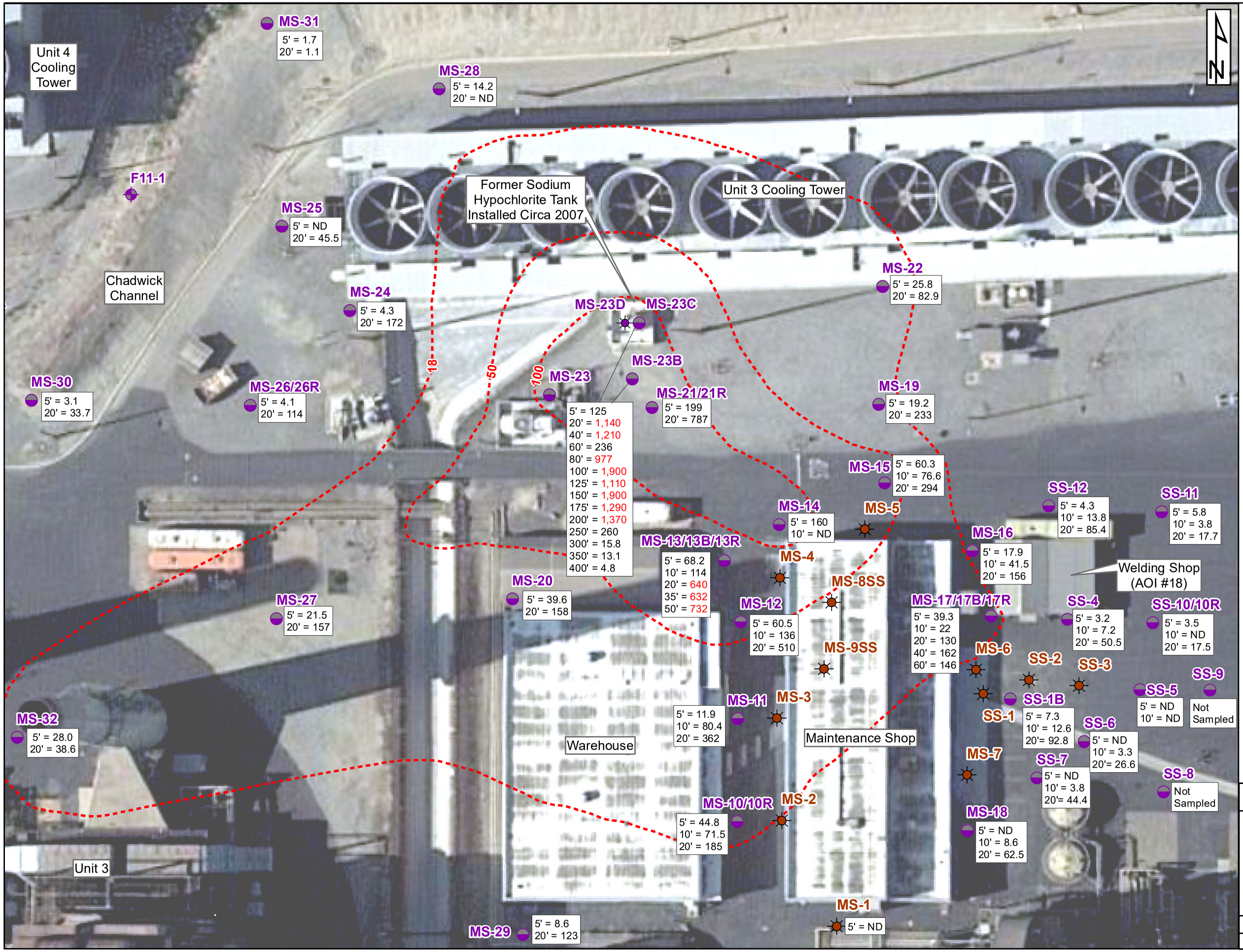
Sampling Locations at Maintenance Shop Area

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

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Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 11_SamplingLocationsatMain_0523.mxd



Legend

SCE RFI 2021-2022

- Soil Sample
- Soil Vapor Sample
- Soil and Soil Vapor Sample

ERM/Ardent October 2019

- Soil Vapor Sample

18 — Chloroform Isocontour at 5 Feet Below Ground Surface

Notes:

Chloroform concentrations are reported in micrograms per cubic meter (ug/m^3) at various sampling depths (feet below ground surface). Posted chloroform concentrations represent maximum concentrations where multiple or duplicate samples were collected.

The EPA regional screening level (RSL) for commercial/industrial land, assuming default soil vapor attenuation factor 0.001 is 530 ug/m^3. Chloroform concentrations above 530 ug/m^3 are identified in Red font.

The EPA RSL for commercial/industrial land, assuming the most conservative default soil vapor attenuation factor 0.03, is 18 ug/m^3.

ND: Chloroform was not detected above the laboratory reporting limit of 2 ug/m^3.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

0 — 40 — 80 Feet

1 inch = 40 feet
1:480

Figure 11A

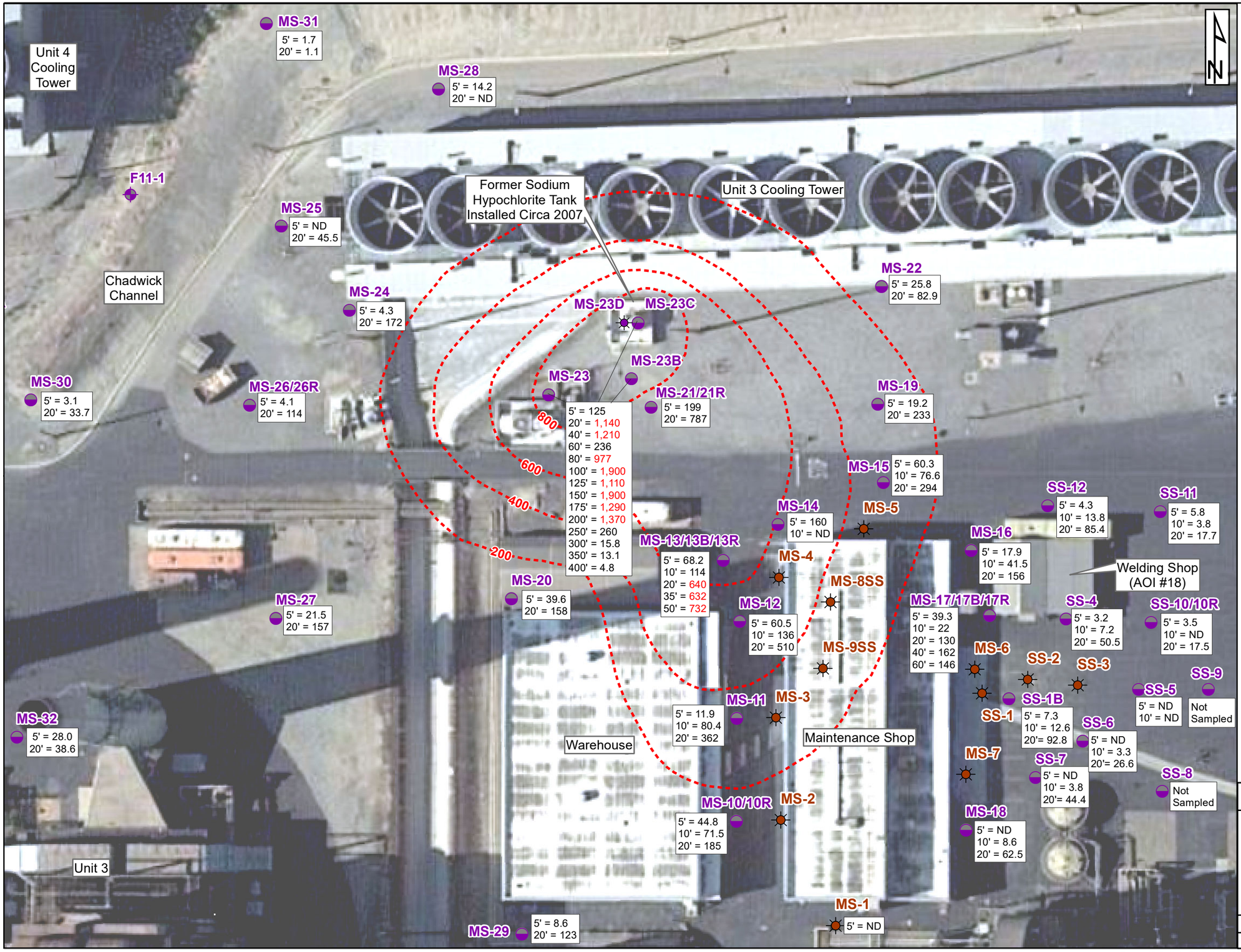
Chloroform in Soil Vapor at Maintenance Shop Area

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 11A_SamLocMainChloroform_0523.mxd



Legend

SCE RFI 2021-2022

- Soil Sample
- Soil Vapor Sample
- Soil and Soil Vapor Sample

ERM/Ardent October 2019

- Soil Vapor Sample

800 — Chloroform Isocontour at 20 Feet Below Ground Surface

Notes:

Chloroform concentrations are reported in micrograms per cubic meter (ug/m^3) at various sampling depths (feet below ground surface). Posted chloroform concentrations represent maximum concentrations where multiple or duplicate samples were collected.

The EPA regional screening level (RSL) for commercial/industrial land, assuming default soil vapor attenuation factor 0.001 is 530 ug/m^3. Chloroform concentrations above 530 ug/m^3 are identified in Red font.

The EPA RSL for commercial/industrial land, assuming the most conservative default soil vapor attenuation factor 0.03, is 18 ug/m^3.

ND: Chloroform was not detected above the laboratory reporting limit of 2 ug/m^3.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

0 — 40 — 80 Feet

1 inch = 40 feet
1:480

Figure 11B

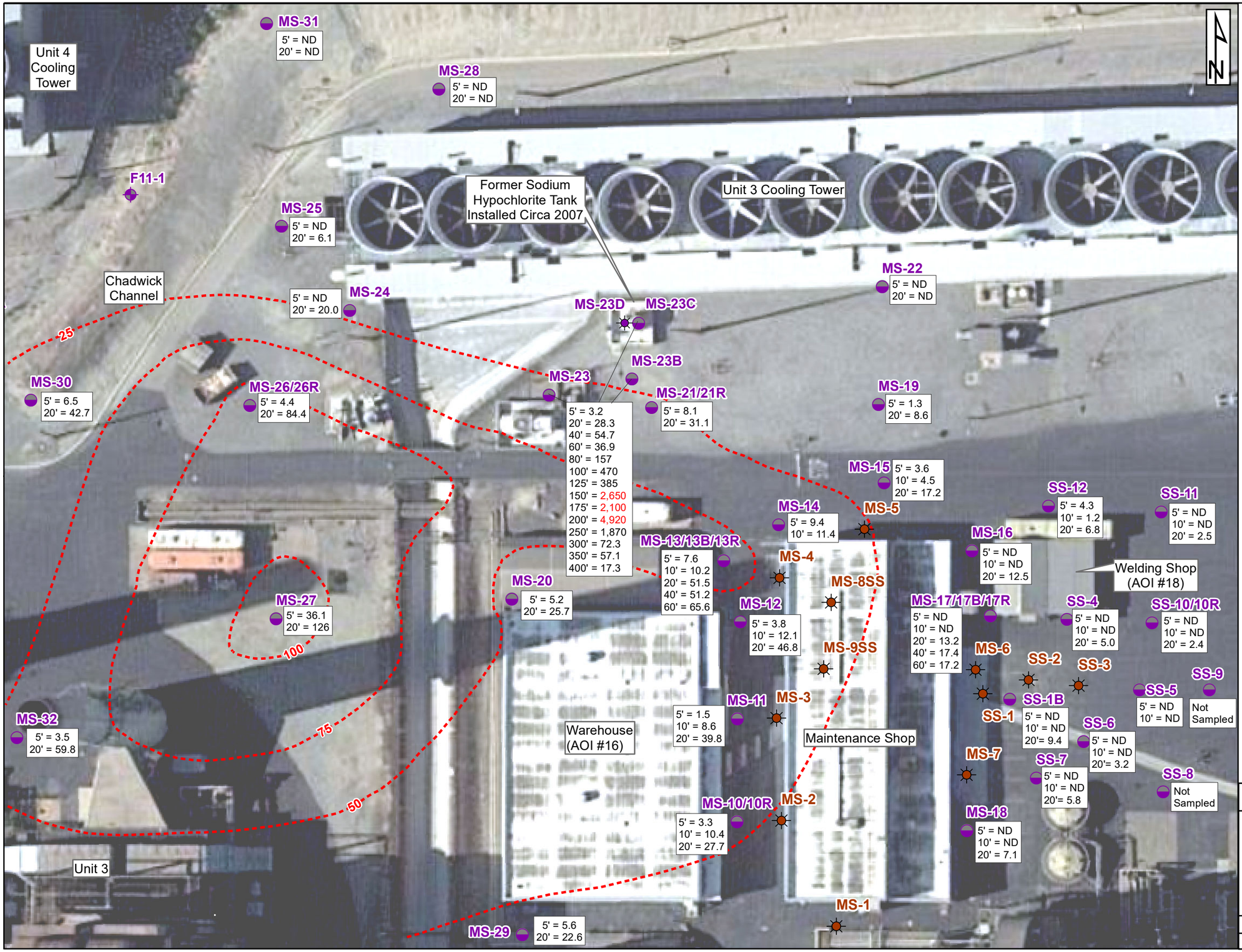
Chloroform in Soil Vapor at Maintenance Shop Area

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 11B_SamLocMainChloroform20_0523.mxd



Legend

SCE RFI 2021-2022

- Soil Sample
- Soil Vapor Sample
- Soil and Soil Vapor Sample

ERM/Ardent October 2019

- Soil Vapor Sample
- 100 — Carbon Tetrachloride Isocontour at 20 Feet Below Ground Surface

Notes:

Carbon tetrachloride concentrations are reported in micrograms per cubic meter (ug/m^3) at various sampling depths (feet below ground surface). Posted carbon tetrachloride concentrations represent maximum concentrations where multiple or duplicate samples were collected.

The EPA regional screening level (RSL) for commercial/industrial land, assuming default soil vapor attenuation factor 0.001, is 2,000 ug/m^3. Carbon tetrachloride concentrations above 2,000 ug/m^3 are identified in Red font.

The EPA RSL for commercial/industrial land, assuming the most conservative default soil vapor attenuation factor 0.03, is 67 ug/m^3.

ND: Carbon tetrachloride was not detected above the laboratory reporting limit of 1 ug/m^3.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

0 40 80 Feet

1 inch = 40 feet
1:480

Figure 11C

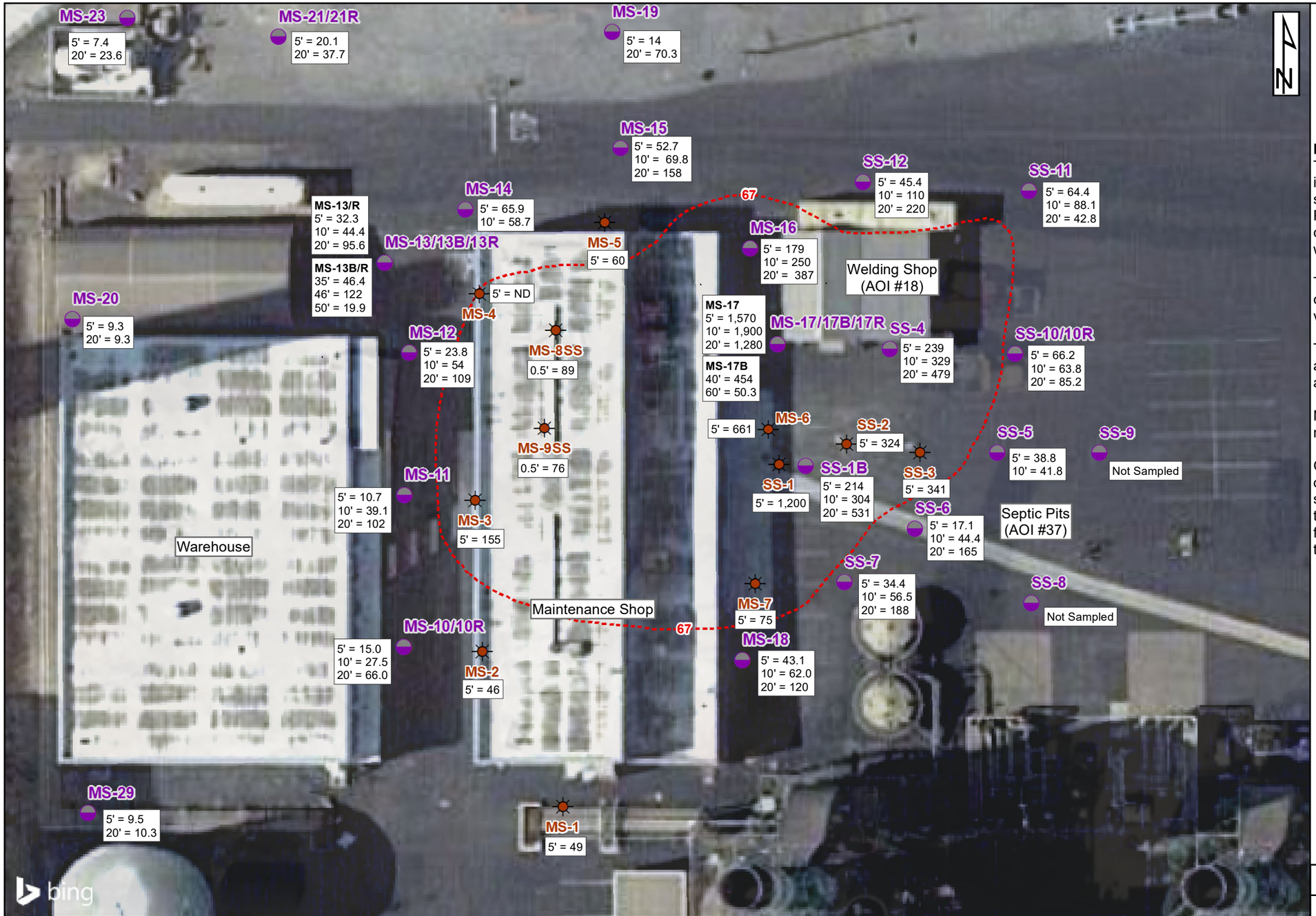
Carbon Tetrachloride in Soil Vapor at Maintenance Shop Area

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

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Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 11C_SamLocMainCT_0523.mxd



Note:
Tetrachloroethene (PCE) concentrations are reported in micrograms per cubic meter (ug/m^3) at various sampling depths (feet below ground surface). Posted PCE concentrations represent maximum concentrations where multiple or duplicate samples were collected.

The DTSC-modified screening level (DTSC-SL) for commercial/industrial land assuming default soil vapor attenuation factor 0.001 is 2,000 ug/m^3.

The DTSC-SL for commercial/industrial land assuming the most conservative default soil vapor attenuation factor 0.03 is 67 ug/m^3.

ND: PCE was not detected above the laboratory reporting limit of 5 ug/m^3.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

SCE RFI 2021-2022
- Soil and Soil Vapor Sample

ERM/Ardent October 2019
- Soil Vapor Sample

- 67 - PCE Isocontour at 5 Feet Below Ground Surface

Feet
0 30 60 90
1 inch = 30 feet
1:360

Figure 11D

PCE Concentrations in Soil Vapor at Maintance Shop Area

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 11D_Warehouseand Maint_PCE_0523.mxd



Note:
1,1-Dichloroethane (1,1-DCA) concentrations are reported in micrograms per cubic meter (ug/m^3) at various sampling depths (feet below ground surface). Posted 1,1-DCA concentrations represent maximum concentrations where multiple or duplicate samples were collected.

The EPA regional screening level (RSL) for commercial/industrial land, assuming default soil vapor attenuation factor 0.001, is 7,700 ug/m^3.

The EPA RSL for commercial/industrial land, assuming the most conservative default soil vapor attenuation factor 0.03, is 257 ug/m^3.

ND: 1,1-DCA was not detected above the laboratory reporting limit (generally between 2 ug/m^3 and 8 ug/m^3.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

SCE RFI 2021-2022
- Soil and Soil Vapor Sample

ERM/Ardent October 2019
- Soil Vapor Sample

-257- 1,1-DCA Isocontour at 5 Feet Below Ground Surface

Feet
0 30 60 90
1 inch = 30 feet
1:360

Figure 11E

1,1-DCA Concentrations in Soil Vapor at Maintenance Shop Area

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 11E_Warehouseand Maint_11DCA_0523.mxd



Legend

Approximate Site Boundary

Transformer

SCE RFI 2021-2022

Soil Sample

Canceled Boring

Feet

0 25 50 100 150

1 inch = 75 feet

1:900

Notes:

Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

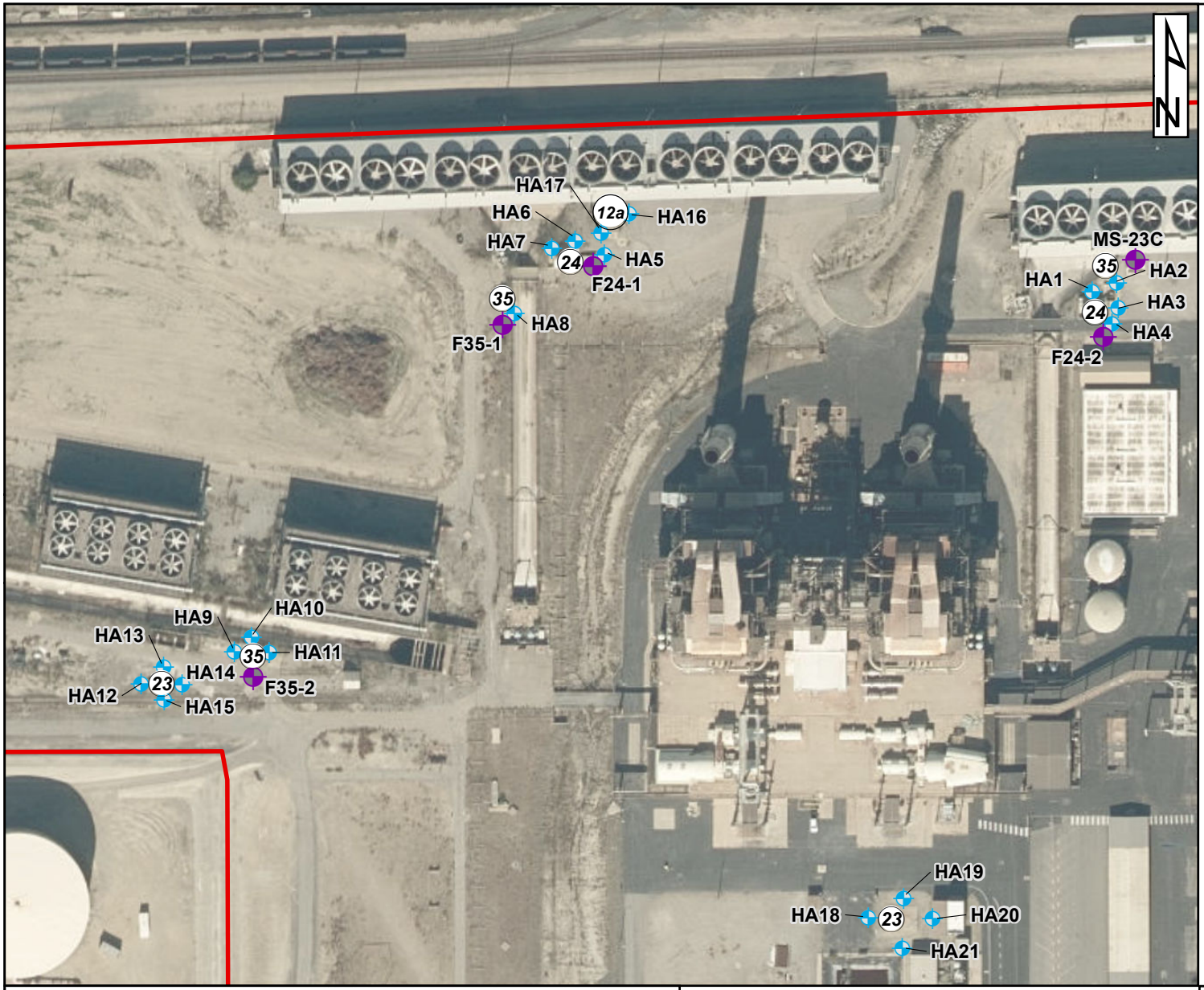
Figure 12

Transformers, Hypochlorite Tank, and Cooling Tower Water Pond Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER	
5/22/2023	2119.75	northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 12_CoolingTower_0523.mxd



Site Features

Numbers Correspond to Locations on Map.

Number	Name
12a	Cooling Tower Transformer and Switch Panel
23	Auxiliary Transformer
24	Sulfuric Acid Tank
35	Sodium Hypochlorite Tank

Notes:
Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

- (23) Area of Interest ID (see table)
- Approximate Site Boundary

SCE RFI 2021-2022

- Soil Borings

SCE Oct-Nov 2020

- Soil Sample

0 50 100 200 300 400 Feet

1 inch = 150 feet

1:1,800

Figure 13

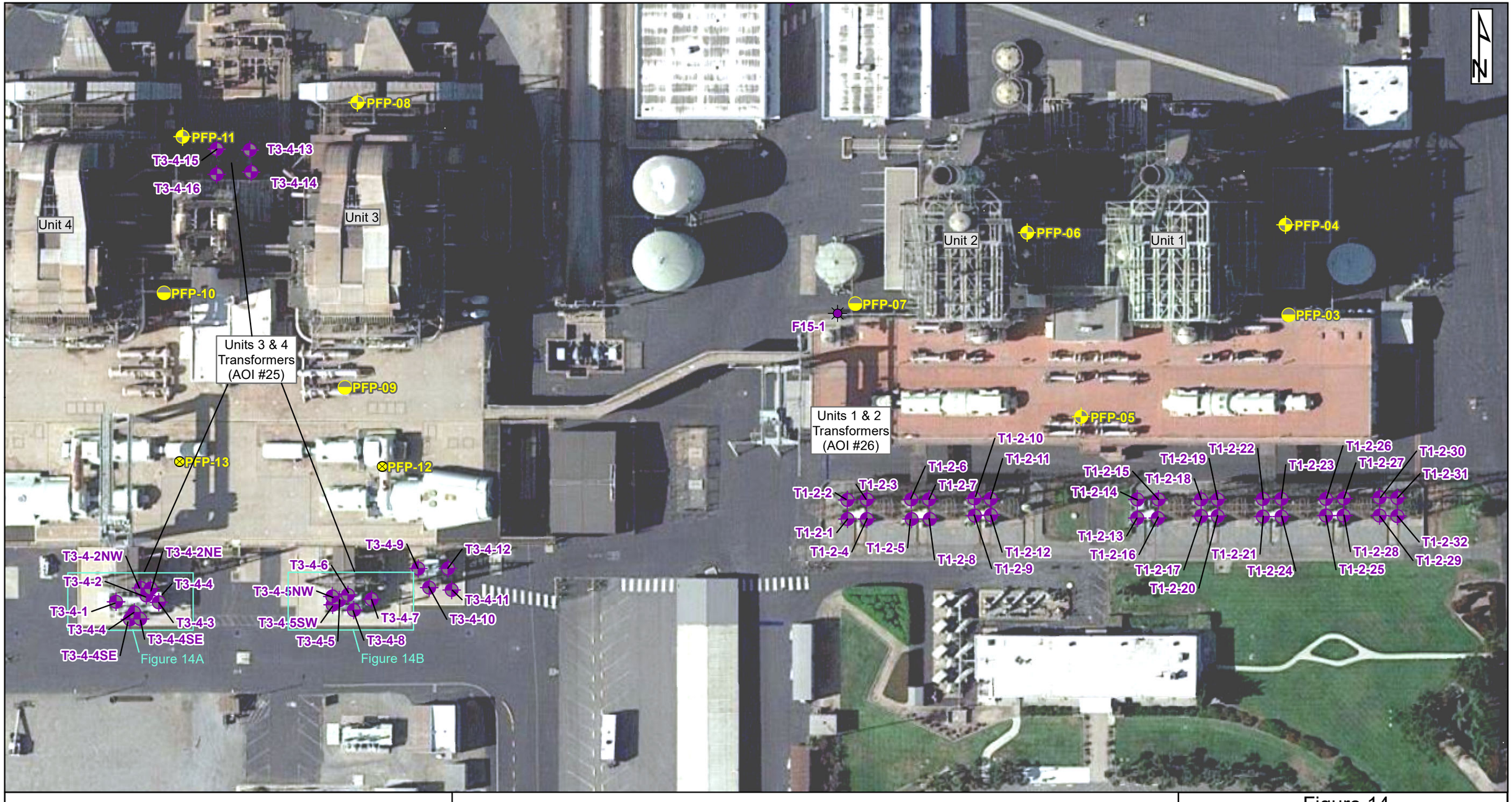
Transformer and Tank Sample Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 13_Etiwanda_0523.mxd



Legend

SCE RFI 2021-2022

- Soil Sample
- Soil Vapor Sample

Path Forward Nov 2020

- Refusal
- Soil
- Soil, Soil Vapor

Notes:
Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

0 50 100 150 Feet

1 inch = 60 feet
1:720

Figure 14

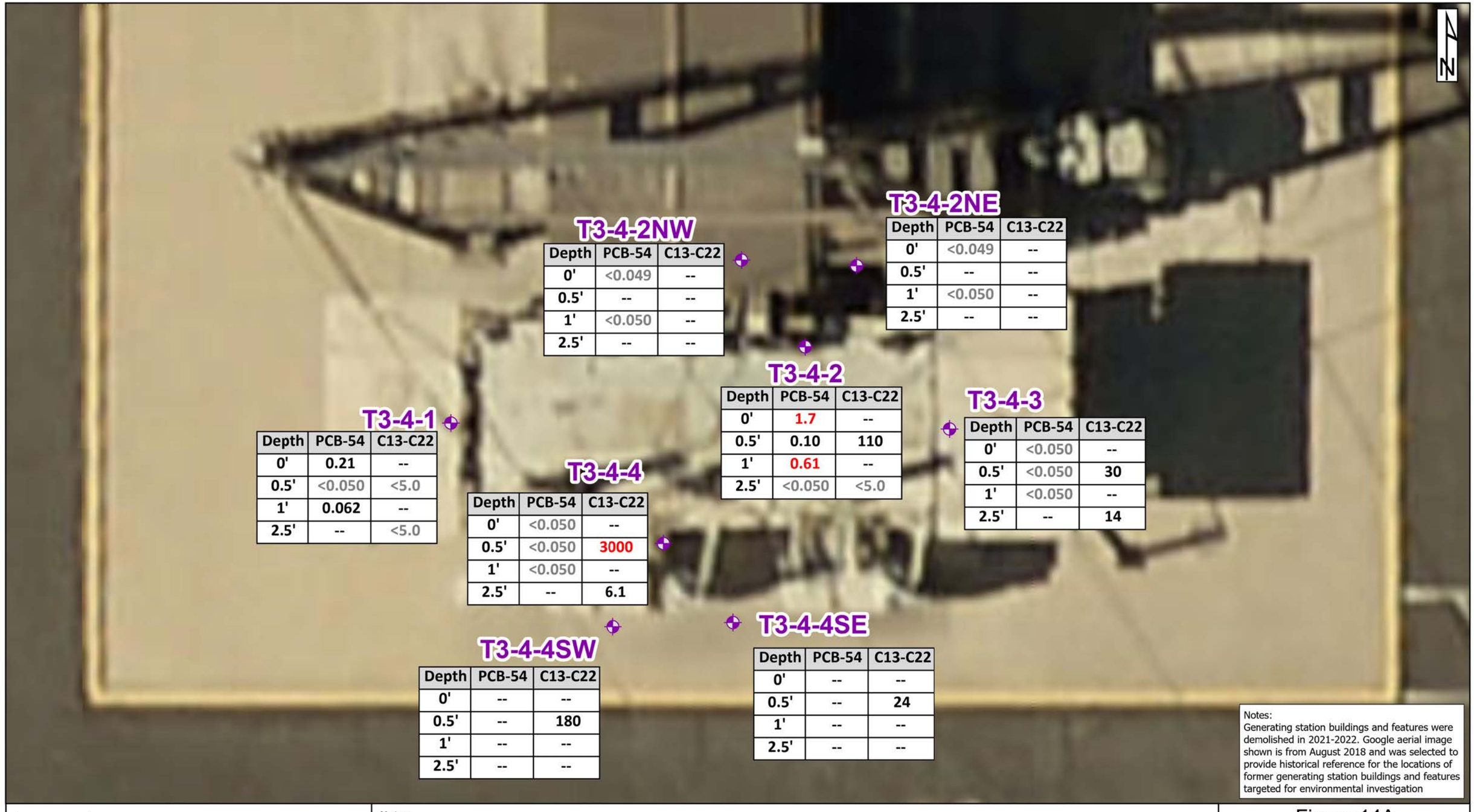
Main Transformers and Units 1-4 Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 14 TransformerUnit1-4_0522.mxd



Legend

SCE RFI 2021-2022

Soil Sample

Notes:

Polychlorinated biphenyl Aroclor-1254 (PCB-54) and Total Petroleum Hydrocarbon (TPH) diesel range (C13-C22) concentrations are reported in milligrams per kilogram (mg/kg) at various sampling depths (feet below ground surface). Concentrations of Aroclor-1254 exceeding the Department of Toxic Substances Control-modified screening level (DTSC-SL) of 0.59 mg/kg and TPH C13-C22 concentrations exceeding the San Francisco Bay Regional Water Quality Control Board Environmental Screening Level (ESL) of 1,200 mg/kg for commercial/industrial land use are identified with Red font.

<0.050: Indicates the target analyte was not detected above the laboratory reporting limit in mg/kg

--: Sample was not analyzed for target analyte"

Feet

0 2.5 5

1 inch = 5 feet

1:60

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Figure 14A

PCB and TPH Concentrations in Soil Samples at Unit 3 & 4 Transformers

Former SCE Etiwanda Generating Station

Rancho Cucamonga, California

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\Projects\RFIWP\Figure14a.aprx



Legend

SCE RFI 2021-2022

Soil Sample

Notes:

Total petroleum hydrocarbon (TPH) diesel range (C13-C22) concentrations are reported in milligrams per kilogram (mg/kg) at various sampling depths (feet below ground surface).
Concentrations of TPH C13-C22 exceeding the San Francisco Bay Regional Water Quality Control Board Environmental Screening Level (ESL) of 1,200 mg/kg for commercial/industrial land use are identified with Red font.
<5.0: Indicates the target analyte was not detected above the laboratory reporting limit in mg/kg
--: Sample was not analyzed for target analyte
J: Results flagged with "J" represent estimated concentrations

0 2.5 5 Feet

1 inch = 5 feet
1:60

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Figure 14B

TPH Concentrations in Soil Samples at Unit 3 & 4 Transformers

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\Projects\RFIWP\Figure14b_v3.aprx

Notes:
Thallium concentrations are reported in milligrams per kilogram (mg/kg) from sampled depths in feet below ground surface except for Ardent samples F3-1 through F3-4 which are displayed in feet "below flume bottom" (equivalent to approximately 8 feet below surrounding grade) and were collected between concrete expansion joints (see photo inset below). Thallium concentrations above the commercial/industrial regional screening level (RSL) of 12 mg/kg are shown in red font. Results with "ND" indicate that thallium was not detected above the posted reporting limit.

CT4-5
0.5' = ND<1.0

CC-1-A
CC-1 (Comp.)
0.5' = ND<1.0

CC-1-B

CC-1-C

CC-1-D

CC-2-A

CT3-2
0.5' = ND<1.0

Unit 3 Cooling Tower
(AOI #19)

CT3-1
0.5' = ND<1.0

MS-23C
0.5' = ND<0.503
2.5' = ND<0.495

CT3-8
0.5' = ND<1.0

Sulfuric Acid Tank
(AOI #24)

Sodium Hypochlorite Tank
(AOI #35)

F3-1
0.5' = 14.9
1.5' = 2.43

0.5' = ND<1.03
2.5' = ND<0.957
5.0' = ND<1.00

MS-14

Typical Concrete Flume Photo (2020)

Concrete Expansion Joints

MS-12
0.5' = ND<1.03
2.5' = ND<1.01
5.0' = ND<0.962

F3-2
0.5' = 3.52

Warehouse
(AOI #16)

Maintenance Shop
(AOI #17)

Flume 3
(AOI #38)

MS-10/10R
0.5' = ND<0.985
2.5' = ND<1.05
5.0' = ND<0.952

PFP-08
1.5' = ND<0.17
4.0' = ND<0.17

F3-3
0.5' = ND<10

Distilled Water Tanks
(AOI #29)

Unit 3

F3-4
0.5' = 8.24

PFP-07
1.5' = ND<0.17
4.0' = ND<0.16

PFP-09
1.5' = ND<0.18
4.0' = 0.18 J

Feet
0 20 40
1 inch = 40 feet
1:480

Legend

Approximate Site Boundary

SCE RFI 2021-2022
Soil and Soil Vapor Sample

Path Forward Nov 2020
Soil Sample
Soil and Soil Vapor Sample

ERM/Ardent October 2019
Soil Sample
Soil Sample Horizontal Composites

Figure 15

Thallium Concentrations at Flume 3

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
10/16/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\Kimco\Map Files\Figure 15_ThalliumCnv2.mxd

APPENDIX A

Tables from the RFI Work Plan

Table 1
Soil Sample Method Detection Limits, Practical Quantitation Limits and Screening Levels
Etiwanda Generating Station

Method	Analyte	CAS Number	Method Detection Limit (MDL) (mg/kg)	Practical Quantitation Limit (PQL) (mg/kg)	Commercial Industrial Screening Level (mg/kg)
Total Petroleum Hydrocarbons EPA-8015B (M)	TPH as Gasoline (C4-C12)	-	0.13	0.50	1,000 (a)
	TPH as Gasoline (C4-C12)	-	0.13	0.50	500 (b)
	TPH as Diesel (C13-C22)	68334-30-5	0.13	0.50	10,000 (a)
	TPH as Diesel (C13-C22)	68334-30-5	0.13	0.50	1,000 (b)
	TPH as Motor Oil (C23-32)	-	0.13	0.50	50,000 (a)
	TPH as Motor Oil (C23-32)	-	0.13	0.50	5,100 (c)
	TPH Low Aromatic (C6-C8)	-	0.13	0.50	420
	TPH Medium Aromatic (C9-C16)	-	0.13	0.50	560
	TPH High Aromatic (C17-C32)	E1790676	0.13	0.50	21,000
Volatile Organic Compounds EPA 8260B	1,1,1,2-Tetrachloroethane	630-20-6	0.00024	0.005	8.8
	1,1,1-Trichloroethane	71-55-6	0.00023	0.005	7,200
	1,1,2,2-Tetrachloroethane	79-34-5	0.00035	0.005	2.7
	1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.00035	0.05	28,000
	1,1,2-Trichloroethane	79-00-5	0.00035	0.005	5.0
	1,1-Dichloroethane	75-34-3	0.00021	0.005	16
	1,1-Dichloroethene	75-35-4	0.00035	0.005	350
	1,1-Dichloropropene	563-58-6	0.00033	0.005	-
	1,2,3-Trichlorobenzene	87-61-6	0.00091	0.01	300
	1,2,3-Trichloropropane	96-18-4	0.00083	0.005	0.021
	1,2,4-Trichlorobenzene	120-82-1	0.00031	0.005	35
	1,2,4-Trimethylbenzene	95-63-6	0.00059	0.005	1,800
	1,2-Dibromo-3-Chloropropane	96-12-8	0.0017	0.01	0.057
	1,2-Dibromoethane (ethylene dibromide)	106-93-4	0.00026	0.005	0.16
	1,2-Dichlorobenzene	95-50-1	0.00023	0.005	9,300
	1,2-Dichloroethane	107-06-2	0.00031	0.005	2.0
	1,2-Dichloropropane	78-87-5	0.00044	0.005	11
	1,3,5-Trimethylbenzene	108-67-8	0.00055	0.005	1,500
	1,3-Dichlorobenzene	541-73-1	0.00018	0.005	-
	1,3-Dichloropropane	142-28-9	0.00025	0.005	2,200
	1,4-Dichlorobenzene	106-46-7	0.00022	0.005	11
	2,2-Dichloropropane	594-20-7	0.00033	0.005	-
	2-Butanone (MEK)	78-93-3	0.0038	0.05	190,000
	2-Chlorotoluene (o-chlorotoluene)	95-49-8	0.00023	0.005	2,500
	2-Hexanone	591-78-6	0.0018	0.05	1,300
	4-Chlorotoluene	106-43-4	0.00021	0.005	2,300
	4-Methyl-2-Pentanone	108-10-1	0.0043	0.05	140,000
	Acetone	67-64-1	0.0062	0.12	670,000
	Benzene	71-43-2	0.00013	0.005	1.4
	Bromobenzene	108-86-1	0.00021	0.005	1,800
	Bromochloromethane	74-97-5	0.00069	0.005	630
	Bromodichloromethane	75-27-4	0.00023	0.005	1.3
	Bromoform	75-25-2	0.00079	0.005	86
	Bromomethane	74-83-9	0.0094	0.025	30
	cis-1,2-Dichloroethene	156-59-2	0.00028	0.005	84
	cis-1,3-Dichloropropene	10061-01-5	0.00025	0.005	-
	Carbon Disulfide	75-15-0	0.00031	0.05	3,500
	Carbon Tetrachloride	56-23-5	0.00028	0.005	2.9
	Chlorobenzene	108-90-7	0.00022	0.005	1,300
	Chloroethane (ethylene chloride)	75-00-3	0.0015	0.005	57,000
	Chloroform	67-66-3	0.00024	0.005	1.4
	Chloromethane	74-87-3	0.0003	0.025	460
	Dibromochloromethane (chlorodibromomethane)	124-48-1	0.00057	0.005	4.1
	Dibromomethane	74-95-3	0.00077	0.005	99
	Dichlorodifluoromethane (Freon 12)	75-71-8	0.00044	0.005	370
	Diisopropyl Ether (DIPE)	108-20-3	0.00048	0.01	-
	Ethanol	64-17-5	0.084	0.25	-
	Ethylbenzene	100-41-4	0.00015	0.005	25
	Ethyl-t-Butyl Ether (ETBE)	637-92-3	0.00051	0.01	-

Table 1
Soil Sample Method Detection Limits, Practical Quantitation Limits and Screening Levels
Etiwanda Generating Station

Method	Analyte	CAS Number	Method Detection Limit (MDL) (mg/kg)	Practical Quantitation Limit (PQL) (mg/kg)	Commercial Industrial Screening Level (mg/kg)
Volatile Organic Compounds EPA 8260B (Cont'd)	Isopropylbenzene (cumene)	98-82-8	0.00055	0.005	9,900
	Methylene Chloride	75-09-2	0.0013	0.05	26
	Methyl-t-Butyl Ether (MTBE)	1634-04-4	0.0003	0.005	210
	Naphthalene	91-20-3	0.00081	0.05	6.5
	n-Butylbenzene	104-51-8	0.00016	0.005	18,000
	n-Propylbenzene	103-65-1	0.0005	0.005	24,000
	o-Xylene	95-47-6	0.00056	0.005	2,800
	p/m-Xylene	179601-23-1	0.00027	0.005	2,400
	p-Isopropyltoluene	99-87-6	0.00063	0.005	-
	sec-Butylbenzene	135-98-8	0.00058	0.005	12,000
	Styrene	100-42-5	0.0006	0.005	32,000
	trans-1,2-Dichloroethene	156-60-5	0.00051	0.005	300
	trans-1,3-Dichloropropene	10061-02-6	0.00061	0.005	-
	Tert-Amyl-Methyl Ether (TAME)	994-05-8	0.00035	0.01	-
	Tert-Butyl Alcohol (TBA)	75-65-0	0.0052	0.05	-
	tert-Butylbenzene	98-06-6	0.00015	0.005	12,000
	Tetrachloroethene	127-18-4	0.00021	0.005	2.7
	Toluene	108-88-3	0.00052	0.005	5,300
	Trichloroethene	79-01-6	0.0003	0.005	6.0
	Trichlorofluoromethane	75-69-4	0.00038	0.05	5,400
	Vinyl Acetate	108-05-4	0.0047	0.05	3,800
	Vinyl Chloride	75-01-4	0.0005	0.005	0.15
Semi-Volatile Organic Compounds EPA 8270C	1,2,4-Trichlorobenzene	120-82-1	0.059	0.5	35
	1,2-Dichlorobenzene	95-50-1	0.064	0.5	9,300
	1,3-Dichlorobenzene	541-73-1	0.073	0.5	-
	1,4-Dichlorobenzene	106-46-7	0.075	0.5	11
	1-Methylnaphthalene (PAH)	90-12-0	0.056	0.5	30
	2,4,5-Trichlorophenol	95-95-4	0.064	0.5	53,000
	2,4,6-Trichlorophenol	88-06-2	0.077	0.5	21
	2,4-Dichlorophenol	120-83-2	0.058	0.5	1,600
	2,4-Dimethylphenol	105-67-9	0.27	0.5	11,000
	2,4-Dinitrophenol	51-28-5	0.34	2.5	1,100
	2,4-Dinitrotoluene	121-14-2	0.067	0.5	4.7
	2,6-Dichlorophenol	87-65-0	0.059	0.5	-
	2,6-Dinitrotoluene	606-20-2	0.073	0.5	0.99
	2-Chloronaphthalene	91-58-7	0.059	0.5	27,000
	2-Chlorophenol	95-57-8	0.067	0.5	3,900
	2-Methylnaphthalene (PAH)	91-57-6	0.06	0.5	1,300
	2-Methylphenol (o-cresol)	95-48-7	0.087	0.5	26,000
	2-Nitroaniline	88-74-4	0.052	0.5	5,200
	2-Nitrophenol	88-75-5	0.067	0.5	-
	3,3'-Dichlorobenzidine	91-94-1	0.36	10	1.2
	3/4-Methylphenol	65794-96-9	0.16	0.5	-
	3-Nitroaniline	99-09-2	0.07	0.5	-
	4,6-Dinitro-2-Methylphenol	534-52-1	0.63	2.5	42
	4-Bromophenyl-Phenyl Ether	101-55-3	0.061	0.5	-
	4-Chloro-3-Methylphenol	59-50-7	0.066	0.5	53,000
	4-Chloroaniline (p-chloroaniline)	106-47-8	0.065	0.5	7.4
	4-Chlorophenyl-Phenyl Ether	7005-72-3	0.064	0.5	-
	4-Nitroaniline	100-01-6	0.065	0.5	74
	4-Nitrophenol	100-02-7	0.054	0.5	-
	Acenaphthene (PAH)	83-32-9	0.063	0.5	23,000
	Acenaphthylene (PAH)	208-96-8	0.06	0.5	-
	Aniline	62-53-3	0.06	0.5	260
	Anthracene (PAH)	120-12-7	0.063	0.5	13,000
	Azobenzene	103-33-3	0.054	0.5	26
	Benzidine	92-87-5	0.83	10	0.003
	Benzo (a) Anthracene (PAH)	56-55-3	0.057	0.5	12

Table 1
Soil Sample Method Detection Limits, Practical Quantitation Limits and Screening Levels
Etiwanda Generating Station

Method	Analyte	CAS Number	Method Detection Limit (MDL) (mg/kg)	Practical Quantitation Limit (PQL) (mg/kg)	Commercial Industrial Screening Level (mg/kg)
Semi-Volatile Organic Compounds EPA 8270C (Cont'd)	Benzo (a) Pyrene (PAH)	50-32-8	0.054	0.5	1.3
	Benzo (b) Fluoranthene (PAH)	205-99-2	0.064	0.5	13
	Benzo (g,h,i) Perylene (PAH)	191-24-2	0.055	0.5	-
	Benzo (k) Fluoranthene (PAH)	207-08-9	0.065	0.5	130
	Benzoic Acid	65-85-0	0.5	2.5	2,100,000
	Benzyl Alcohol	100-51-6	0.066	0.5	53,000
	Bis(2-Chloroethoxy) Methane	111-91-1	0.056	0.5	1,600
	Bis(2-Chloroethyl) Ether	111-44-4	0.41	2.5	0.47
	Bis(2-Chloroisopropyl) Ether	108-60-1	0.057	0.5	-
	Bis(2-Ethylhexyl) Phthalate	117-81-7	0.053	0.5	110
	Butyl Benzyl Phthalate	85-68-7	0.054	0.5	780
	Chrysene (PAH)	218-01-9	0.064	0.5	1,300
	Dibenz (a,h) Anthracene (PAH)	53-70-3	0.046	0.5	0.31
	Dibenzofuran	132-64-9	0.06	0.5	650
	Diethyl Phthalate	84-66-2	0.058	0.5	420,000
	Dimethyl Phthalate	131-11-3	0.11	0.5	-
	Di-n-Butyl Phthalate	84-74-2	0.06	0.5	53,000
	Di-n-Octyl Phthalate	117-84-0	0.1	0.5	5,300
	Fluoranthene (PAH)	206-44-0	0.062	0.5	18,000
	Fluorene (PAH)	86-73-7	0.063	0.5	17,000
	Hexachloro-1,3-Butadiene (Hexachlorobutadiene)	87-68-3	0.063	0.5	5.3
	Hexachlorobenzene	118-74-1	0.067	0.5	0.86
	Hexachlorocyclopentadiene	77-47-4	0.5	2.5	7.5
	Hexachloroethane	67-72-1	0.078	0.5	8.0
	Indeno (1,2,3-c,d) Pyrene (PAH)	193-39-5	0.053	0.5	13
	Isophorone	78-59-1	0.057	0.5	1,600
	Naphthalene (PAH)	91-20-3	0.059	0.5	6.5
	Nitrobenzene	98-95-3	0.32	2.5	22
	N-Nitrosodimethylamine	62-75-9	0.047	0.5	0.64
	N-Nitroso-di-n-propylamine	621-64-7	0.084	0.5	0.21
	N-Nitrosodiphenylamine	86-30-6	0.14	0.5	300
	Pentachlorophenol	87-86-5	0.39	2.5	2.0
	Phenanthrene (PAH)	85-01-8	0.069	0.5	-
	Phenol	108-95-2	0.048	0.5	160,000
	Pyrene (PAH)	129-00-0	0.077	0.5	13,000
	Pyridine	110-86-1	0.055	0.5	530
Metals - EPA 6020	Antimony	7440-36-0	0.13	2	470
	Arsenic	7440-38-2	0.389	1	12
	Barium	7440-39-3	0.112	1	220,000
	Beryllium	7440-41-7	0.205	1	230
	Cadmium	7440-43-9	0.12	1	78 (d)
	Chromium	16065-83-1	0.117	2	1,800,000 (e)
	Cobalt	7440-48-4	0.127	1	350
	Copper	7440-50-8	0.116	1	47,000
	Lead	7439-92-1	0.137	1	320 (f)
	Molybdenum	7439-98-7	0.146	1	5,800
	Nickel	7440-02-0	0.128	1	11,000
	Selenium	7782-49-2	0.264	1	5,800
	Silver	7440-22-4	0.142	1	5,800
	Thallium	7440-28-0	0.105	1	12 (g)
	Vanadium	7440-62-2	0.142	2	5,800
	Zinc	7440-66-6	0.793	5	350,000
Mercury - EPA 7471A	Mercury	7439-97-6	0.00587	0.0833	4.4
Polychlorinated Biphenyls EPA 8082	Aroclor-1016	12674-11-2	0.021	0.05	17
	Aroclor-1221	11104-28-2	0.042	0.05	0.53
	Aroclor-1232	11141-16-5	0.025	0.05	0.49
	Aroclor-1242	53469-21-9	0.037	0.05	0.58
	Aroclor-1248	12672-29-6	0.032	0.05	0.58

Table 1
Soil Sample Method Detection Limits, Practical Quantitation Limits and Screening Levels
Etiwanda Generating Station

Method	Analyte	CAS Number	Method Detection Limit (MDL) (mg/kg)	Practical Quantitation Limit (PQL) (mg/kg)	Commercial Industrial Screening Level (mg/kg)
Polychlorinated Biphenyls EPA 8082 (Cont'd)	Aroclor-1254	11097-69-1	0.032	0.05	0.59
	Aroclor-1260	11096-82-5	0.03	0.05	0.60
	Aroclor-1262	37324-23-5	0.035	0.05	-
	Aroclor-1268	11100-14-4	0.033	0.05	-
pH - EPA 945C	pH	12408-02-5	-	-	-

Notes:

Los Angeles Regional Water Quality Control Board, May 1996
San Francisco Bay Regional Water Quality Control Board Screening Level, January 2019
U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), November 2020
DTSC Human and Ecological Risk Office (HERO) Note 3 Screening Levels, June 2020

MDLs and PQLs provided by Eurofins Calscience
mg/kg - milligrams per kilogram
PAH - polyaromatic hydrocarbons
(a) - soils more than 150 feet used based on depth to groundwater
(b) - odor nuisance level
(c) - gross contamination
(d) - dietary
(e) - chromium III insoluable salts
(f) - DTSC Note 3
(g) - soluble salts

Table 2
Soil Vapor Sample Practical Quantitation Limits and Screening Levels
Etiwanda Generating Station

Method	Analyte	Practical Quantitation Limit (PQL) ($\mu g/m^3$)	Commercial Industrial Screening Level ($\mu g/m^3$)
Volatile Organic Compounds EPA 8260B	1,1,1-Trichloroethane	<2	146,667
	1,1,2,2-Tetrachloroethane	<1	7.0
	1,1,2-Trichloroethane	<4	26
	1,1-Dichloroethane	<1	257
	1,1-Dichloroethene	<1	10,333
	1,2,4-Trichlorobenzene	<10	57
	1,2-Dibromo-3-chloropropane	<5	0.1
	1,2-Dichlorobenzene	<2	29,333
	1,2-Dichloroethane	<1	16
	1,2-Dichloropropane	<2	110
	1,3-Dichlorobenzene	<2	-
	1,4-Dichlorobenzene	<2	37
	Benzene	<0.5	14
	Bromodichloromethane	<2	11
	Bromoform	<2	367
	Carbon tetrachloride	<1	67
	Chlorobenzene	<2	7,333
	Chloroform	<2	18
	cis-1,2-Dichloroethene	<1	1,167
	cis-1,3-Dichloropropene	<2	-
	Dibromochloromethane	<2	19
	Dichlorodifluoromethane	<5	14,667
	Ethylbenzene	<2	163
	Ethylene dibromide	<0.5	0.7
	Hexachlorobutadiene	<4	19
	m,p-Xylene	<5	14,667
	Methyl tert butyl ether	<5	1,567
	Methylene chloride	<2	400
	o-Xylene	<2	14,667
	Styrene	<2	130,000
	Tetrachloroethene	<5	67
	Toluene	<5	43,333
	trans-1,2-Dichloroethene	<1	11,667
	trans-1,3-Dichloropropene	<2	-
	Trichloroethene	<5	100
	Trichlorofluoromethane	<5	176,667
	Vinyl chloride	<0.5	5.3
	1,2,4-Trimethylbenzene	<2	8,667
	1,3,5-Trimethylbenzene	<2	8,667
	Freon-113	<5	733,333
	n-Butylbenzene	<5	29,333
	sec-Butylbenzene	<5	60,000
	tert-Butylbenzene	<5	60,000
	Bromobenzene	<2	8,667
	2-Chlorotoluene	<5	11,667

Table 2
Soil Vapor Sample Practical Quantitation Limits and Screening Levels
Etiwanda Generating Station

Volatile Organic Compounds EPA 8260B (Cont'd)	4-Chlorotoluene	<5	11,667
	Di-isopropylether	<5	103,333
	1,3-Dichloropropane	<4	11,667
	2,2-Dichloropropane	<8	-
	1,1-Dichloropropene	<5	-
	Dibromomethane	<4	600
	Ethyl-tert-butyl ether	<5	-
	Isopropylbenzene	<2	-
	4-Isopropyltoluene	<2	-
	Naphthalene	<2	12
	n-Propylbenzene	<2	146,667
	tert-amyl methyl ether	<5	-
	tert-Butyl alcohol	<25	-
	1,1,1,2-Tetrachloroethane	<1	57
	1,2,3-Trichlorobenzene	<10	467
	1,2,3-Trichloropropane	<2	0.53

Notes:

U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), May 2021

DTSC Human and Ecological Risk Office (HERO) Note 3 Screening Levels, June 2020

PQLs provided by Jones Environmental

µg/m3 - micrograms per cubic meter

TABLE 3- ARDENT LABORATORY RESULTS OF SOIL SAMPLES, COOLING TOWERS 1 AND 2, AOI 10

Rationale	Test Pit ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	Title 22 Metals (mg/kg)																	
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess western extent of arsenic previously detected at Cooling Towers 1 and 2.	CT 1/2-1	10/9/2019	0.5	0	ND<1.0	**2.32**	**79.2**	ND<0.5	ND<0.5	**28.3**	ND<0.2	**6.42**	**10.9**	**1.83**	**0.014**	ND<5.0	**6.82**	ND<1.0	ND<1.0	**3.63**	**42.7**	**37.3**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess northern extent of arsenic previously detected at Cooling Towers 1 and 2	CT 1/2-2	10/9/2019	0.5	0	ND<1.0	**1.86**	**79.6**	ND<0.5	ND<0.5	**34**	ND<0.2	**5.94**	**16.2**	**7.41**	**0.013**	ND<0.5	**12.4**	ND<1.0	ND<1.0	**5.11**	**39.1**	**64.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-3	10/9/2019	0.5	0	ND<1.0	**2.02**	**85.9**	ND<0.5	ND<0.5	**28.1**	ND<0.2	**6.82**	**11.9**	**2.56**	**0.013**	ND<0.5	**6.81**	ND<1.0	ND<1.0	**4.6**	**42.8**	**40.4**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-4	10/9/2019	0.5	0	ND<1.0	**3.54**	**103**	ND<0.5	ND<0.5	**32.3**	ND<0.2	**7.98**	**12.8**	**2.79**	**0.016**	ND<0.5	**6.75**	ND<1.0	ND<1.0	**7.45**	**34.8**	**49.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess eastern extent of arsenic previously detected at Cooling Towers 1 and 2	CT 1/2-5	10/9/2019	0.5	0	ND<1.0	**6.71**	**111**	ND<0.5	**1.22**	**35.1**	ND<0.2	**8.45**	**12.1**	**3.52**	**0.014**	ND<0.5	**7.12**	ND<1.0	ND<1.0	**5.72**	**46.7**	**1190**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess southern extent of arsenic previously detected at Cooling Towers 1 and 2	CT 1/2-6	10/9/2019	0.5	0	ND<1.0	**1.58**	**113**	ND<0.5	ND<0.5	**29.5**	ND<0.2	**7.86**	**11**	**3.17**	**0.014**	ND<0.5	**6.42**	ND<1.0	ND<1.0	**7.67**	**44.9**	**45.4**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-7	10/9/2019	0.5	0	ND<1.0	**1.99**	**88**	ND<0.5	ND<0.5	**26.7**	ND<0.2	**7.19**	**12**	**2.97**	**0.016**	ND<0.5	**7.89**	ND<1.0	ND<1.0	**5.78**	**41.1**	**44.4**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-8	10/9/2019	0.5	0	ND<1.0	**0.95**	**93.7**	ND<0.5	ND<0.5	**29.5**	ND<0.2	**7.02**	**11.4**	**2.16**	**0.016**	ND<0.5	**6.79**	ND<1.0	ND<1.0	**4.8**	**45.2**	**41**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess medial concentration of arsenic previously detected Cooling Towers 1 and 2	CT 1/2-9	10/9/2019	0.5	0	ND<1.0	**0.81**	**83.9**	ND<0.5	ND<0.5	**27**	ND<0.2	**6.43**	**11.5**	**1.88**	ND<0.1	ND<0.5	**7.38**	ND<1.0	ND<1.0	**4.83**	**37.6**	**37.6**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-10	10/9/2019	0.5	0	ND<1.0	**1.39**	**129**	ND<0.5	ND<0.5	**44.2**	ND<0.2	**9.83**	**18.1**	**3.34**	ND<0.1	ND<0.5	**10.2**	ND<1.0	ND<1.0	**6.54**	**53.3**	**59.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT 1/2-11	10/9/2019	0.5	0	ND<1.0	**1.20**	**121**	ND<0.5	ND<0.5	**36.3**	ND<0.2	**8.75**	**15**	**3.03**	ND<0.1	ND<0.5	**8.49**	ND<1.0	ND<1.0	**9.08**	**47.9**	**55.2**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health		**EPA-RSLi**		NA	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
		DTSC-SLi		NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
		Background for Arsenic		NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions		**SCAQMD**		50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria		**TTLC**		NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
		STLC		NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
		10x STLC		NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
		20x STLC		NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Table source is from Ardent

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 4- - ARDENT LABORATORY RESULTS OF SOIL SAMPLES, SLUDGE DRAINAGE AREA ASSOCIATED WITH COOLING TOWERS 1 AND 2, AOI 33

Rationale	Soil Boring ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	Title 22 Metals (mg/kg)																	
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals in soil along possible sludge drag out path located between Cooling Towers 1 and 2 and the Sludge Drainage Area.	SDA-1	10/15/2019	0.5	0	ND<1.0	ND<0.3	**136**	ND<0.5	ND<0.5	**28.3**	ND<0.2	**8.08**	**6.76**	**1.05**	**0.012**	ND<5.0	**4.11**	ND<1.0	ND<1.0	**2.17**	**39.3**	**40.3**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-2	10/15/2019	0.5	0	ND<1.0	ND<0.3	**96.3**	ND<0.5	ND<0.5	**36.6**	ND<0.2	**7.56**	**11.7**	**2.19**	**0.014**	ND<5.0	**6.62**	ND<1.0	ND<1.0	**1.98**	**42.6**	**42.6**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-3	10/15/2019	0.5	0	ND<1.0	**0.657**	**154**	ND<0.5	ND<0.5	**47.8**	ND<0.2	**11.5**	**17.3**	**4.37**	**0.017**	ND<5.0	**7.95**	ND<1.0	ND<1.0	**1.3**	**57.2**	**77.7**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately south of Sludge Drainage Area.	SDA-4	10/15/2019	0.5	0	ND<1.0	**0.357**	**127**	ND<0.5	ND<0.5	**45.1**	ND<0.2	**9.76**	**16.8**	**3.26**	**0.015**	ND<5.0	**10.1**	ND<1.0	ND<1.0	ND<1.0	**49.9**	**60.4**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-5	10/15/2019	0.5	0	ND<1.0	**0.32**	**131**	ND<0.5	ND<0.5	**45.9**	ND<0.2	**10.7**	**19.3**	**3.15**	**0.019**	ND<5.0	**11.4**	ND<1.0	ND<1.0	**4.13**	**54.1**	**68.6**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately east of Sludge Drainage Area.	SDA-6	10/15/2019	0.5	0	ND<1.0	**0.719**	**145**	ND<0.5	ND<0.5	**47.6**	ND<0.2	**10.5**	**16.7**	**4.26**	**0.017**	ND<5.0	**8.96**	ND<1.0	ND<1.0	**7.07**	**55**	**70.2**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil within central portion of Sludge Drainage Area.	SDA-7	10/15/2019	0.5	0	ND<1.0	**0.423**	**118**	ND<0.5	ND<0.5	**42**	ND<0.2	**8.71**	**14.4**	**2.62**	**0.015**	ND<5.0	**8.06**	ND<1.0	ND<1.0	ND<1.0	**56.5**	**53.4**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-8	10/15/2019	0.5	0	ND<1.0	**0.497**	**128**	ND<0.5	ND<0.5	**45**	ND<0.2	**9.41**	**17.3**	**3.06**	**0.017**	ND<5.0	**9.67**	ND<1.0	ND<1.0	**2.21**	**70.9**	**57.3**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-9	10/15/2019	0.5	0	ND<1.0	**0.493**	**131**	ND<0.5	ND<0.5	**45.9**	ND<0.2	**9.81**	**17.8**	**3.33**	**0.019**	ND<5.0	**8.81**	ND<1.0	ND<1.0	**8.17**	**51.2**	**60**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDA-10	10/15/2019	0.5	0	ND<1.0	**0.442**	**109**	ND<0.5	ND<0.5	**41**	ND<0.2	**8.71**	**15.2**	**3.39**	**0.013**	ND<5.0	**11.7**	ND<1.0	ND<1.0	ND<1.0	**45.1**	**54.7**
			2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health	**EPA-RSLi**		NA	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi		NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
	Background for Arsenic		NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions	**SCAQMD**		50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**		NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
	STLC		NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
	10x STLC		NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
	20x STLC		NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ppm - parts per million

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Table source is from Ardent

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 5 - ARDENT LABORATORY RESULTS OF SOIL SAMPLES, COOLING TOWER 3, AOI 19

Rationale	Soil Boring ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	Title 22 Metals (mg/kg)																	
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Soluble Lead WET (ug/l)	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals in soil immediately west of Cooling Tower 3	CT3-1	10/14/2019	0.5	0	ND<1.0	**0.811**	**90.8**	ND<0.5	ND<0.5	**37.5**	ND<0.2	**6.14**	**6.31**	**1.86**	--	**0.013**	ND<5.0	**4.42**	ND<1.0	ND<1.0	ND<1.0	**32.7**	**29.2**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately north of Cooling Tower 3	CT3-2	10/14/2019	0.5	0	ND<1.0	**14.3**	**144**	ND<0.5	ND<0.5	**102**	ND<0.2	**9.04**	**221**	**56.9**	**0.086**	**0.03**	ND<5.0	**79.7**	ND<1.0	ND<1.0	ND<1.0	**107**	**115**
			1.5	--	--	**2.02**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	**1.06**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT3-3	10/14/2019	0.5	0	ND<1.0	ND<0.3	**75.7**	ND<0.5	ND<0.5	**25.7**	ND<0.2	**6.74**	**4.89**	**0.69**	--	**0.013**	ND<5.0	ND<2.5	ND<1.0	ND<1.0	ND<1.0	**28.8**	**25.8**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT3-4	10/14/2019	0.5	0	ND<1.0	**0.607**	**88.6**	ND<0.5	ND<0.5	**35.7**	ND<0.2	**7.25**	**9.41**	**2.01**	--	**0.015**	ND<5.0	**12.9**	ND<1.0	ND<1.0	ND<1.0	**33.9**	**37.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately east of Cooling Tower 3	CT3-5	10/14/2019	0.5	0	ND<1.0	**2.15**	**85.6**	ND<0.5	ND<0.5	**33.2**	ND<0.2	**6.9**	**6.79**	**2.44**	--	**0.015**	ND<5.0	**8.4**	ND<1.0	ND<1.0	ND<1.0	**39.2**	**31.6**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately south of Cooling Tower 3	CT3-6	10/14/2019	0.5	0	ND<1.0	**26.4**	**109**	ND<0.5	ND<0.5	**62.9**	ND<0.2	**7.96**	**48**	**3.31**	--	**0.018**	ND<5.0	**12.5**	ND<1.0	ND<1.0	ND<1.0	**36.4**	**47.9**
			1.5	--	--	**3.57**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	**2.35**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT3-7	10/14/2019	0.5	0	ND<1.0	**1.19**	**85**	ND<0.5	ND<0.5	**31**	ND<0.2	**6.35**	**37.9**	**1.48**	--	**0.015**	ND<5.0	**2.9**	ND<1.0	ND<1.0	ND<1.0	**33.5**	**28.2**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT3-8	10/14/2019	0.5	0	ND<1.0	**7.87**	**142**	ND<0.5	ND<0.5	**50**	ND<0.2	**10.5**	**20.4**	**3.88**	--	**0.018**	ND<5.0	**15.8**	ND<1.0	ND<1.0	ND<1.0	**53.1**	**60.1**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health	**EPA-RSLi**			NA	470	3.0	22,000	2,300	980	1,800,000	6	350	47,000	800	NA	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi			NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	NA	4.5	NA	3,100	NA	1,500	NA	1,000	NA
	Background for Arsenic			NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions	**SCAQMD**			50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**			NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	NA	20	3,500	2,000	100	500	700	2,400	5,000
	STLC			NA	15	5	100	0.75	1	560	5	80	25	5	5	0.2	350	20	1	5	7	24	250
	10x STLC			NA	150	50	1,000	7.5	10	5,600	50	800	250	50	NA	2	3,500	200	10	50	70	240	2,500
	20x STLC			NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	NA	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

PID - Photoionization Detector

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

Table source is from Ardent

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

Green highlighted cell indicates a concentration that exceeds a regulatory screening level for disposal criteria

TABLE 6- ARDENT LABORATORY RESULTS OF SOIL SAMPLES, COOLING TOWER 4, AOI 12

Rationale	Soil Boring ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	Title 22 Metals (mg/kg)																	
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals in soil immediately west of Cooling Tower 4	CT4-1	10/14/2019	0.5	0	ND<1.0	**0.353**	**92.4**	ND<0.5	ND<0.5	**35.2**	ND<0.2	**7.33**	**9.72**	**2.1**	**0.015**	ND<5.0	**5.94**	ND<1.0	ND<1.0	ND<1.0	**34**	**39.6**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately north of Cooling Tower 4	CT4-2	10/14/2019	0.5	0	ND<1.0	**5.93**	**64**	ND<0.5	ND<0.5	**41.2**	ND<0.2	**7.11**	**139**	**19.9**	**0.015**	ND<5.0	**21.9**	ND<1.0	ND<1.0	ND<1.0	**31.1**	**102**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT4-3	10/14/2019	0.5	0	ND<1.0	**2.41**	**70.1**	ND<0.5	ND<0.5	**31.9**	ND<0.2	**6.41**	**6.17**	**1.23**	**0.013**	ND<5.0	**6.28**	ND<1.0	ND<1.0	ND<1.0	**35.8**	**25.9**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT4-4	10/14/2019	0.5	0	ND<1.0	**1.79**	**114**	ND<0.5	ND<0.5	**42.9**	ND<0.2	**8.4**	**40.1**	**4.65**	**0.018**	ND<5.0	**13**	ND<1.0	ND<1.0	ND<1.0	**37.8**	**101**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately south of Cooling Tower 4	CT4-5	10/14/2019	0.5	0	ND<1.0	ND<0.3	**101**	ND<0.5	ND<0.5	**33.2**	ND<0.2	**7.5**	**8.31**	**2.11**	**0.013**	ND<5.0	**3.35**	ND<1.0	ND<1.0	ND<1.0	**33**	**34.5**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess concentrations of metals in soil immediately east of Cooling Tower 4	CT4-6	10/14/2019	0.5	0	ND<1.0	**2.69**	**108**	ND<0.5	ND<0.5	**49.8**	ND<0.2	**8.23**	**53.3**	**12.2**	**0.015**	ND<5.0	**28**	ND<1.0	ND<1.0	ND<1.0	**41.3**	**71.8**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT4-7	10/14/2019	0.5	0	ND<1.0	**1.51**	**132**	ND<0.5	ND<0.5	**160**	ND<0.2	**4.89**	**32.3**	**12.9**	**0.015**	ND<5.0	**15.7**	ND<1.0	ND<1.0	ND<1.0	**146**	**105**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CT4-8	10/14/2019	0.5	0	ND<1.0	**2.48**	**84.7**	ND<0.5	ND<0.5	**35.8**	ND<0.2	**7.02**	**12.9**	**3.19**	**0.018**	ND<5.0	**8.41**	ND<1.0	ND<1.0	ND<1.0	**37.5**	**42.9**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health	**EPA-RSLi**			NA	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi			NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
	Background for Arsenic			NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions	**SCAQMD**			50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**			NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
	STLC			NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
	10x STLC			NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
	20x STLC			NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Table source is from Ardent

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unified School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 7- ARDENT LABORATORY RESULTS OF SOIL SAMPLES, CHADWICK CHANNEL, AOI 11

Rationale	Composite Sample ID	Sample Date	Sample Depth (feet bgs)	TPHcc (mg/kg)			PCBs (mg/kg)		Title 22 Metals (mg/kg)																
				TPHg C_4 - C_{10}	TPHd C_{10} - C_{28}	TPHo C_{23} - C_{35}	Aroclor 1254	All Others	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess soil within the Chadwick Channel	CC-1	10/8/2019	0.5	ND<10	11.7	69.1	0.19	ND<0.01	ND<1.0	1.25	89.5	ND<0.5	0.63	111	ND<0.2	6.97	57.2	36.8	0.05	ND<5.0	27.8	ND<1.0	ND<1.0	ND<1.0	55.8	211
	CC-2	10/8/2019	0.5	ND<10	883	3,760	0.12	ND<0.01	ND<1.0	2.05	132	ND<0.5	1.02	156	ND<0.2	6.3	88	46.7	0.05	ND<5.0	38.3	ND<1.0	ND<1.0	8.85	60.5	382
	CC-3	10/8/2019	0.5	ND<10	69.7	261	0.09	ND<0.01	ND<1.0	1.53	86.8	ND<0.5	1.75	75.4	ND<0.2	6.11	43	27	0.07	ND<5.0	27.4	ND<1.0	ND<1.0	ND<1.0	54	146
	CC-4	10/8/2019	0.5	ND<10	24.1	142	0.06	ND<0.01	ND<1.0	1.14	86.3	ND<0.5	ND<0.5	85.2	ND<0.2	5.8	40.8	19.8	0.04	ND<5.0	22.2	ND<1.0	ND<1.0	ND<1.0	62.7	134
	CC-5	10/8/2019	0.5	ND<10	130	525	0.05	ND<0.01	ND<1.0	1.18	98.6	ND<0.5	0.57	115	ND<0.2	6.58	59.8	31.8	0.03	ND<5.0	42.9	ND<1.0	ND<1.0	ND<1.0	63	218
	CC-6	10/8/2019	0.5	ND<10	113	590.8	0.04	ND<0.01	ND<1.0	2.47	130	ND<0.5	0.85	130	ND<0.2	7.28	102	45.3	0.05	ND<5.0	52.2	ND<1.0	ND<1.0	ND<1.0	73.7	315
	CC-7	10/8/2019	0.5	ND<10	395	1,730	0.03	ND<0.01	ND<1.0	1.22	77	ND<0.5	ND<0.5	64.6	ND<0.2	4.84	40.9	19.3	0.02	ND<5.0	32.4	ND<1.0	ND<1.0	ND<1.0	50.9	160
	CC-8	10/8/2019	0.5	ND<10	47.8	232	0.03	ND<0.01	ND<1.0	1.19	81.2	ND<0.5	ND<0.5	66	ND<0.2	6.46	34.6	23.6	0.03	ND<5.0	30.3	ND<1.0	ND<1.0	2.55	60.8	144
	CC-9	10/8/2019	0.5	ND<10	39.3	146	0.01	ND<0.01	ND<1.0	0.67	63.1	ND<0.5	ND<0.5	50.5	ND<0.2	5.65	23.7	10.7	0.02	ND<5.0	23.3	ND<1.0	ND<1.0	ND<1.0	50.2	103
	CC-10	10/8/2019	0.5	ND<10	84.7	478	0.03	ND<0.01	ND<1.0	0.88	81.8	ND<0.5	0.53	99.5	ND<0.2	6.15	52.8	26.5	0.04	ND<5.0	42.5	ND<1.0	ND<1.0	ND<1.0	60.6	222
Protection of Human Health		EPA-RSLi		2200	440.0	3,500,000	0.97	Various	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
		DTSC-SLi		NA	NA	NA	0.58	Various	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
		Background for Arsenic		NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Protection of Environment		LARWQCB		100	10,000	50000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions		SCAQMD		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria		TTLC		NA	NA	NA	NA	NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
		STLC		NA	NA	NA	NA	NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
		10x STLC		NA	NA	NA	NA	NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
		20x STLC		NA	NA	NA	NA	NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

TPHcc - total petroleum hydrocarbons carbon chain C4-C35 analyzed in general accordance with EPA Method No. 8015 (modified)

TPHg - total petroleum hydrocarbons as gasoline

TPHd - total petroleum hydrocarbons as diesel fuel

TPHo - total petroleum hydrocarbons as oil

PCBs - Polychlorinated Biphenyls analyzed in general accordance with EPA Method No. 8082

Table source is from Ardent

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

LARWQCD - Los Angeles Regional Water District Control Board, Interim Site Assessment and Cleanup Guidebook, March 1996

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

TABLE 8 - ARDENT LABORATORY RESULTS OF SOIL SAMPLES, RAILROAD SPUR

Rationale	Multi-Increment Sample ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	OCPs (mg/kg)		Title 22 Metals (mg/kg)															
					DDE	All Others	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals and pesticides in soil along railroad spur.	RR-1	10/9/2019	0.5	0	ND<0.001	ND<0.001-0.02	ND<1.0	**1.19**	**104**	ND<0.5	ND<0.5	**30.8**	**7.61**	**13.5**	**2.33**	**0.018**	ND<5.0	**8.86**	ND<1.0	ND<1.0	**7.1**	**72.6**	**47.4**
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RR-2	10/9/2019	0.5	0	0.001	ND<0.001-0.02	ND<1.0	**1.36**	**121**	ND<0.5	ND<0.5	**36.1**	**10.7**	**18.9**	**3.4**	**0.014**	ND<0.5	**26.5**	ND<1.0	ND<1.0	**8.13**	**39.6**	**73.2**
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RR-3	10/9/2019	0.5	0	0.020	ND<0.001-0.02	ND<1.0	**1.69**	**104**	ND<0.5	ND<0.5	**31.2**	**8.5**	**15.9**	**6.24**	**0.024**	ND<0.5	**24.8**	ND<1.0	ND<1.0	**6.68**	**51.9**	**44.7**
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RR-4	10/9/2019	0.5	0	0.014	ND<0.001-0.02	ND<1.0	**1.42**	**107**	ND<0.5	ND<0.5	**32.4**	**5.98**	**13.4**	**4.89**	**0.019**	ND<0.5	**7.77**	ND<1.0	ND<1.0	**7.64**	**48.9**	**52.2**
			3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health		**EPA-RSLi**		NA	8.5	Various	470	3.0	22,000	2,300	980	1,800,000	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
		DTSC-SLi		NA	9.3	Various	NA	0.36	NA	210	7.3	170,000	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
		Background for Arsenic		NA	NA	Various	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions		**SCAQMD**		50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria		**TTLC**		NA	1	Various	500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
		STLC		NA	0.1	Various	15	5	100	0.75	1	560	80	25	5	0.2	350	20	1	5	7	24	250
		10x STLC		NA	1	Various	150	50	1,000	7.5	10	5,600	800	250	50	2	3,500	200	10	50	70	240	2,500
		20x STLC		NA	NA	Various	NA	100	2,000	NA	20	NA	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

OCPs - Organo Chlorine Pesticides analyzed in general accordance with EPA Method No. 8081A

PID - Photoionization Detector

Table source is from Ardent

DDE - Dichlorodiphenyldichloroethylene

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 9- ARDENT LABORATORY RESULTS OF SOIL SAMPLES, LANDFILL I, (CONSTRUCTION AND OPERATIONS WASTE), AOI 22

Rationale	Test Pit ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	VOCs (mg/kg)	TPHcc (mg/kg)			Title 22 Metals (mg/kg)																				
						TPHg C_4 - C_{10}	TPHd C_{10} - C_{28}	TPHo C_{23} - C_{35}	Antimony	Arsenic	Soluble Arsenic WET (ug/l)	Soluble Arsenic TCLP (ug/l)	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Soluble Copper WET (ug/l)	Lead	Soluble Lead WET (ug/l)	Soluble Lead TCLP (ug/l)	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess soil within Landfill I	LFI-1	10/9/2019	3	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	25.1	--	--	178	ND<0.5	1.27	81.7	ND<0.2	9.85	832	68.3	111	10	0.057	0.06	ND<5.0	23.1	ND<1.0	ND<1.0	5.42	46.9	618
	LFI-2	10/9/2019	5	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	0.769	--	--	71.6	ND<0.5	ND	22.9	ND<0.2	5.69	9.08	--	1.53	--	--	0.01	ND<5.0	5.75	ND<1.0	ND<1.0	4.1	30.5	31.3
Sample collected from 2' thick layer of black stained soil.	LFI-3	10/9/2019	4	0	ND<0.005-0.02	ND<10	13.5	86.1	ND<1.0	227	18.5	0.046	302	ND<0.5	6.41	574	ND<0.2	13.2	3,220	--	769	67.1	0.328	0.20	ND<5.0	134	ND<1.0	ND<1.0	ND<1.0	175	1,420
Sample collected beneath observed layer of stained soil.	LFI-3	10/9/2019	7	0	ND<0.005-0.02	ND<10	37.1	212	ND<1.0	297	12.2	0.058	410	ND<0.5	5.82	700	ND<0.2	14.8	3,130	--	949	51.1	0.625	0.12	ND<5.0	139	ND<1.0	ND<1.0	ND<1.0	201	1,050
Assess soil within Landfill I.	LFI-4	10/9/2019	5	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	1.26	--	--	98.6	ND<0.5	ND	30.8	ND<0.2	8.21	13.5	--	2.55	--	--	0.02	ND<5.0	9.33	ND<1.0	ND<1.0	5.72	46	48.7
	LFI-5	10/9/2019	7	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	7.86	--	--	158	ND<0.5	ND	56.1	ND<0.2	10.1	111	--	20.3	--	--	0.02	ND<5.0	14.9	ND<1.0	ND<1.0	7.83	59	85.6
	LFI-6	10/9/2019	3	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	2.17	--	--	119	ND<0.5	ND	39	ND<0.2	10.5	29.8	--	6.75	--	--	0.01	ND<5.0	66.6	ND<1.0	ND<1.0	8.11	121	66
	LFI-7	10/9/2019	6	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	0.982	--	--	72.3	ND<0.5	ND	22.5	ND<0.2	6.11	8.22	--	1.43	--	--	0.01	ND<5.0	5.58	ND<1.0	ND<1.0	3.7	37.3	30.9
Protection of Human Health	**EPA-RSLi**		NA	Various	2,200	440	3,500,000	470	3.0	NA	NA	22,000	2,300	980	1,800,000	6	350	47,000	NA	800	NA	NA	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi		NA	Various	NA	NA	NA	NA	0.36	NA	NA	NA	210	7.3	170,000	6.2	NA	NA	NA	320	NA	NA	4.5	NA	3,100	NA	1500	NA	1000	NA
	Background for Arsenic		NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Protection of Environment	**LARWQCB**		NA	NA	1,000	10,000	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions	**SCAQMD**		50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**		NA	NA	NA	NA	NA	500	500	NA	NA	10,000	75	100	2,500	500	8,000	2,500	NA	1,000	NA	NA	20	3,500	2,000	100	500	700	2,400	5,000
	STLC		NA	NA	NA	NA	NA	15	5	5	5	100	0.75	1	560	5	80	25	25	5	5	5	0.2	350	20	1	5	7	24	250
	10x STLC		NA	NA	NA	NA	NA	150	50	NA	NA	1,000	7.5	10	5,600	50	800	250	NA	50	NA	NA	2	3,500	200	10	50	70	240	2,500
	20x STLC		NA	NA	NA	NA	NA	NA	100	NA	NA	2,000	NA	20	NA	100	NA	NA	NA	100	NA	NA	400	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ug/L - micrograms per liter

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

TPHcc - total petroleum hydrocarbons carbon chain C4-C35 analyzed in general accordance with EPA Method No. 8015 (modified)

TPHg - total petroleum hydrocarbons as gasoline

TPHd - total petroleum hydrocarbons as diesel fuel

TPHo - total petroleum hydrocarbons as oil

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

Table source is from Ardent

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

LARWQCD - Los Angeles Regional Water District Control Board, Interim Site Assessment and Cleanup Guidebook, March 1996

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unified School District (LAUSD) school sites, dated June 6, 2005.

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TCLP - Toxicity Characteristic Leeching Procedure

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

Green highlighted cell indicates a concentration that exceeds a regulatory screening level for disposal criteria

Blue highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health and for disposal criteria

TABLE 10 - ARDENT LABORATORY RESULTS OF SOIL SAMPLES, LANDFILL II (NORTHERN FILL), AOI 34

Rationale	Test Pit ID	Sample Date	Sample Depth (feet bgs)	PID Readings (ppm)	VOCs (mg/kg)	TPHcc (mg/kg)			Title 22 Metals (mg/kg)															
						TPHg C_4 - C_{10}	TPHd C_{10} - C_{28}	TPHo C_{23} - C_{35}	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess soil in Landfill II.	**LFII-1**	10/10/2019	7	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.39**	**117**	ND<0.5	ND<0.5	**33.2**	ND<0.2	**9.42**	**16.1**	**3.19**	**0.016**	ND<5.0	**10.5**	ND<1.0	ND<1.0	**8.22**	**48**	**55.2**
	LFII-2	10/10/2019	6	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.45**	**130**	ND<0.5	ND<0.5	**36.1**	ND<0.2	**10.3**	**19.7**	**4.69**	**0.013**	ND<5.0	**12.3**	ND<1.0	ND<1.0	**7.33**	**50.3**	**68.3**
	LFII-3	10/10/2019	6	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**2.16**	**117**	ND<0.5	ND<0.5	**49.4**	ND<0.2	**10.2**	**36.3**	**15.9**	**0.017**	ND<5.0	**19.4**	ND<1.0	ND<1.0	**7.81**	**52.3**	**130**
	LFII-4	10/10/2019	4	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.4**	**82.2**	ND<0.5	ND<0.5	**26.5**	ND<0.2	**7.82**	**12.8**	**5.93**	**0.016**	ND<5.0	**8.71**	ND<1.0	ND<1.0	**6.3**	**38.3**	**59.9**
	LFII-5	10/10/2019	5	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.12**	**93.2**	ND<0.5	ND<0.5	**29.1**	ND<0.2	**8.38**	**13.1**	**3.78**	**0.014**	ND<5.0	**9.97**	ND<1.0	ND<1.0	**7.53**	**42.1**	**51.6**
	LFII-6	10/9/2019	4	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.16**	**76.8**	ND<0.5	ND<0.5	**24.3**	ND<0.2	**6.29**	**9**	**1.81**	ND<0.01	ND<5.0	**5.93**	ND<1.0	ND<1.0	**3.08**	**37**	**35.4**
	LFII-7	10/9/2019	3	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**0.961**	**67**	ND<0.5	ND<0.5	**23.5**	ND<0.2	**6.14**	**7.58**	**1.57**	ND<0.01	ND<5.0	**5.02**	ND<1.0	ND<1.0	**5.69**	**30.7**	**31.5**
	LFII-8	10/9/2019	6	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.35**	**63.2**	ND<0.5	ND<0.5	**23.1**	ND<0.2	**5.47**	**7.6**	**1.72**	ND<0.01	ND<5.0	**5.4**	ND<1.0	ND<1.0	**2.09**	**39.5**	**31.2**
	LFII-9	10/9/2019	2	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.53**	**93.7**	ND<0.5	ND<0.5	**27.3**	ND<0.2	**9.42**	**13.6**	**3.43**	ND<0.01	ND<5.0	**9.89**	ND<1.0	ND<1.0	**6.42**	**38.2**	**51.1**
	LFII-10	10/9/2019	5	0	ND<0.005-0.02	ND<10	ND<10	ND<50	ND<1.0	**1.55**	**71.7**	ND<0.5	ND<0.5	**27**	ND<0.2	**6.15**	**11.2**	**3.22**	ND<0.01	ND<5.0	**8.59**	ND<1.0	ND<1.0	**2.57**	**42.1**	**41.8**
Protection of Human Health		**EPA-RSLi**	NA	Various	2,200	440	3,500,000	470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
		DTSC-SLi	NA	Various	NA	NA	NA	NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
		Background for Arsenic	NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Protection of Environment		**LARWQCB**	NA	NA	1,000	10,000	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Emissions		**SCAQMD**	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria		**TTLC**	NA	Various	NA	NA	NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
		STLC	NA	Various	NA	NA	NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
		10x STLC	NA	Various	NA	NA	NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
		20x STLC	NA	Various	NA	NA	NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

PID - Photoionization Detector

TPHcc - total petroleum hydrocarbons carbon chain C4-C35 analyzed in general accordance with EPA Method No. 8015 (modified)

TPHg - total petroleum hydrocarbons as gasoline

TPHd - total petroleum hydrocarbons as diesel fuel

TPHo - total petroleum hydrocarbons as oil

Table source is from Ardent

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

DTSC-SLi - Department of Toxic Substances Control, Human and Ecological Risk Office Note 3, screening levels for industrial/commercial land use, dated April 2019

Background for Arsenic - DTSC, Final Report Background Metals at Los Angeles Unified School Sites; Arsenic: Suppliment to the DTSC Preliminary Endangerment Assessment (PEA) for evaluating background concentrations of arsenic at Los Angeles Unfied School District (LAUSD) school sites, dated June 6, 2005.

LARWQCD - Los Angeles Regional Water District Control Board, Interim Site Assessment and Cleanup Guidebook, March 1996

SCAQMD - South Coast Air Quality Management District Rule 1166 guidelines

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

TABLE 11 - ARDENT LABORATORY RESULTS OF SOIL GAS SAMPLES, FORMER HAZARDOUS WASTE STORAGE AREA, AOI 36

Rationale	Soil Gas Point ID	Sample Date	Sample Depth (feet bgs)	VOCs (ug/L)							
				Ethylbenzene	Styrene	PCE	Toluene	1,2,4 TMB	m,p-Xylene	o-Xylene	Other VOCs
Screening soil gas sample points.	**FHW-1**	10/17/2019	5	**0.010**	**0.015**	ND<0.008	**0.015**	**0.026**	**0.050**	**0.02**	ND<0.008-0.4000
	FHW-2	10/17/2019	5	**0.011**	**0.017**	**0.061**	**0.013**	**0.025**	**0.052**	**0.022**	ND<0.008-0.4000
	FHW-3	10/17/2019	5	**0.011**	**0.019**	**0.027**	**0.017**	**0.026**	**0.050**	**0.021**	ND<0.008-0.4000
	FHW-4	10/17/2019	5	**0.015**	**0.025**	**0.030**	**0.032**	**0.027**	**0.065**	**0.026**	ND<0.008-0.4000
Protection of Human Health		EPA-RSLi		0.163	146.6	1.5	733	8.6	14.6	14.6	Various
		DTSC-SLi		NA	130	0.067	430.6	NA	NA	NA	Various

Notes:

ID - identification

Table source is from Ardent

feet bgs - feet below the ground surface

ug/L - micrograms per liter

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

PCE - Tetrachloroethene

1,2,4-TMB - 1,2,4-Trimethylbenzene

EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land , dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

TABLE 12 - ARDENT LABORATORY RESULTS OF SOIL GAS SAMPLES, EXISTING HAZARDOUS WASTE STORAGE AREA, AOI 14

Rationale	Soil Gas Point ID	Sample Date	Sample Depth (feet bgs)	VOCs (ug/L)									
				Ethylbenzene	Isopropyl-benzene	Styrene	PCE	Toluene	1,2,4 TMB	1,3,5 TMB	m,p-Xylene	o-Xylene	Other VOCs
Soil gas sample points adjacent to septic pits.	**EHW-1**	10/17/2019	5	**0.023**	**0.012**	**0.023**	ND<0.008	**0.029**	**0.044**	**0.010**	**0.114**	**0.045**	ND<0.008-0.4000
	EHW-2	10/17/2019	5	**0.022**	ND<0.008	**0.019**	**0.046**	**0.032**	**0.053**	**0.011**	**0.105**	**0.041**	ND<0.008-0.4000
Protection of Human Health		EPA-RSLi		0.163	NA	146.6	1.5	733.3	8.6	8.6	14.6	14.6	Various
		DTSC-SLi		NA	NA	130	0.067	430.3	NA	NA	NA	NA	Various

Notes:

ID - identification

Table source is from Ardent

feet bgs - feet below the ground surface

ug/L - micrograms per liter

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

PCE - Tetrachloroethene

1,2,4-TMB - 1,2,4-Trimethylbenzene

1,3,4-TMB - 1,3,5-Trimethylbenzene

EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land , dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

TABLE 13- ARDENT LABORATORY RESULTS OF SOIL GAS SAMPLES, MAINTENANCE SHOP, AOI 17

Rationale	Soil Gas Point ID	Sample Date	Sample Depth (feet bgs)	VOCs (ug/L)																		
				Bromo-dichloro-methane	Bromoform	Chloroform	Dibromo-chloro-methane	1,1-DCA	1,1-DCE	Ethylbenzene	Isopropyl-benzene	Styrene	PCE	Toluene	1,1,1-TCA	TCE	1,2,4-TMB	1,3,5-TMB	Vinyl Chloride	m,p-Xylene	o-Xylene	Other VOCs
South of Maintenance Shop	**MS-1**	10/17/2019	5	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008	**0.022**	**0.009**	**0.034**	**0.049**	**0.068**	**0.011**	ND<0.008	**0.019**	ND<0.008	ND<0.008	**0.086**	**0.030**	ND<0.008-0.400
West of Maintenance Shop	**MS-2**	10/17/2019	5	**0.010**	ND<0.008	**0.017**	ND<0.008	ND<0.008	**0.047**	**0.028**	**0.009**	**0.030**	**0.046**	**0.086**	**0.060**	ND<0.008	**0.028**	ND<0.008	ND<0.008	**0.114**	**0.039**	ND<0.008-0.400
	MS-2 (DUP)	10/17/2019	5	**0.010**	ND<0.008	**0.018**	ND<0.008	ND<0.008	**0.046**	**0.029**	**0.009**	**0.030**	**0.037**	**0.087**	**0.058**	ND<0.008	**0.029**	ND<0.008	ND<0.008	**0.115**	**0.039**	ND<0.008-0.400
	MS-3	10/17/2019	5	**0.020**	ND<0.008	**0.042**	**0.015**	ND<0.008	**0.157**	**0.031**	ND<0.008	ND<0.008	**0.155**	**0.045**	**0.164**	ND<0.008	**0.026**	ND<0.008	**0.014**	**0.158**	**0.055**	ND<0.008-0.400
	MS-4	10/17/2019	5	**0.027**	**0.009**	**0.049**	**0.018**	ND<0.008	**0.158**	**0.036**	**0.012**	**0.040**	**0.067**	**0.155**	**0.161**	ND<0.008	**0.028**	ND<0.008	**0.012**	**0.132**	**0.043**	ND<0.008-0.400
North of Maintenance Shop	**MS-5**	10/17/2019	5	**0.011**	ND<0.008	**0.023**	**0.008**	ND<0.008	**0.104**	**0.034**	**0.009**	**0.029**	**0.060**	**0.105**	**0.140**	ND<0.008	**0.015**	ND<0.008	ND<0.008	**0.136**	**0.043**	ND<0.008-0.400
East of Maintenance Shop	**MS-6**	10/17/2019	5	ND<0.008	ND<0.008	**0.021**	ND<0.008	**0.396**	**0.571**	**0.028**	ND<0.008	**0.022**	**0.661**	**0.094**	**1.77**	ND<0.008	**0.033**	**0.008**	**0.138**	**0.107**	**0.038**	ND<0.008-0.400
	MS-7	10/17/2019	5	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008	**0.048**	**0.018**	ND<0.008	**0.022**	**0.075**	**0.058**	**0.133**	ND<0.008	**0.021**	ND<0.008	ND<0.008	**0.068**	**0.025**	ND<0.008-0.400
Sub-slab sample points within the Maintenance Shop	**MS-8SS**	10/17/2019	Sub Slab	ND<0.008	**0.015**	**0.014**	ND<0.008	ND<0.008	**0.122**	ND<0.008	ND<0.008	ND<0.008	**0.089**	ND<0.008	**0.214**	**0.008**	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.008-0.400
	MS-9SS	10/17/2019	Sub Slab	**0.015**	ND<0.008	**0.033**	**0.009**	ND<0.008	**0.055**	ND<0.008	ND<0.008	ND<0.008	**0.076**	ND<0.008	**0.22**	ND<0.008	ND<0.008	ND<0.008	**0.009**	ND<0.008	ND<0.008	ND<0.008-0.400
Protection of Human Health - Vapor Intrusion		EPA-RSLi		0.011	0.367	0.017	NA	0.256	29	0.163	60	147	1.50	733	733	0.100	8.7	8.7	0.093	14.7	14.7	Various
		DTSC-SLi		0.011	0.367	NA	NA	0.256	10.3	NA	NA	130	0.067	43	147	NA	NA	NA	0.0053	NA	NA	Various

Notes:
ID - identification
feet bgs - feet below the ground surface
VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B
ug/L - micrograms per liter
DUP - duplicate sample
ND - no detectable concentrations above the laboratory reporting limit
NA - not available / not applicable
1,1-DCA - 1,1-Dichloroethane
1,1-DCE - 1,1-Dichloroethene
PCE - Tetrachloroethene
1,1,1 -TCA - 1,1,1-Trichlorethane
TCE - Trichloroethene
1,2,4-TMB - 1,2,4-Trimethylbenzene
1,3,4-TMB - 1,3,5-Trimethylbenzene
EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.
DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.
Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health through vapor intrusion

Table source is from Ardent

TABLE 14 - ARDENT LABORATORY RESULTS OF SOIL GAS SAMPLES, SEPTIC SYSTEM ASSOCIATED WITH MAINTENANCE SHOP, AOI 37

Rationale	Soil Gas Point ID	Sample Date	Sample Depth (feet bgs)	VOCs (ug/L)														
				Chloroform	1,1-DCA	1,1-DCE	Ethylbenzene	Styrene	PCE	Toluene	1,1,1-TCA	TCE	1,2,4-TMB	1,3,5-TMB	Vinyl Chloride	m,p-Xylene	o-Xylene	Other VOCs
Screening soil gas sample points	**SS-1**	10/17/2019	5	**0.013**	**0.405**	**1.02**	**0.016**	**0.018**	**1.20**	**0.025**	**2.88**	**0.012**	**0.018**	ND<0.008	**0.160**	**0.067**	**0.025**	ND<0.008-0.4000
	SS-2	10/17/2019	5	ND<0.008	ND<0.008	**0.139**	**0.023**	**0.021**	**0.324**	**0.056**	**0.604**	ND<0.008	**0.049**	**0.011**	ND<0.008	**0.093**	**0.037**	ND<0.008-0.4000
	SS-3	10/17/2019	5	ND<0.008	ND<0.008	**0.171**	**0.030**	**0.008**	**0.341**	**0.125**	**0.631**	ND<0.008	**0.039**	**0.009**	ND<0.008	**0.103**	**0.041**	ND<0.008-0.4000
Protection of Human Health - Vapor Intrusion		EPA-RSLi		0.53	0.256	29	0.163	146.6	1.5	733.3	733.3	0.1	8.6	8.6	0.093	14.6	14.6	Various
		DTSC-SLi		NA	0.256	10.3	NA	130	0.067	430.3	146.67	NA	NA	NA	0.0053	NA	NA	Various

Notes:

ID - identification
feet bgs - feet below the ground surface
VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B
ug/L - micrograms per liter
DUP - duplicate sample
ND - no detectable concentrations above the laboratory reporting limit
NA - not available / not applicable
1,1-DCA - 1,1-Dichloroethane
1,1-DCE - 1,1-Dichloroethene
PCE - Tetrachloroethene
1,1,1 -TCA - 1,1,1-Trichloroethane
TCE - Trichloroethene
1,2,4-TMB - 1,2,4-Trimethylbenzene
1,3,5-TMB - 1,3,5-Trimethylbenzene

Table source is from Ardent

EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

TABLE 15 - ARDENT LABORATORY RESULTS OF SOIL SAMPLES, FLUMES ASSOCIATED WITH COOLING TOWERS 1 - 4, AOI 38

Rationale	Soil Boring IDs	Sample Date	Sample Depth (feet bgs)	Title 22 Metals (mg/kg)																	
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess the concentration of metals in soil beneath Flumes associated with Cooling Towers 1 and 2	**F1/2-1**	10/7/19	0.5	ND<1.0	**0.578**	**55.4**	ND<0.5	ND<0.5	**25.1**	ND<0.5	**5.05**	**10.6**	**2.13**	ND<0.01	ND<5.0	**4.6**	ND<1.0	ND<1.0	ND<1.0	**35.2**	**30.70**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F1/2-2	10/7/19	0.5	ND<1.0	**0.895**	**101**	ND<0.5	ND<0.5	**32.2**	ND<0.5	**7.59**	**11.5**	**2.08**	ND<0.01	ND<5.0	**5.04**	ND<1.0	ND<1.0	**2.82**	**42.3**	**44.50**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F1/2-3	10/7/19	0.5	ND<1.0	**1.27**	**98.3**	ND<0.5	**0.503**	**41.4**	ND<0.5	**7.42**	**14.2**	**2.59**	ND<0.01	ND<5.0	**5.98**	ND<1.0	ND<1.0	**4**	**41.5**	**247.00**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F1/2-4	10/7/19	0.5	ND<1.0	**1.45**	**111**	ND<0.5	ND<0.5	**35.8**	ND<0.5	**8.24**	**13.4**	**2.25**	ND<0.01	ND<5.0	**5.18**	ND<1.0	ND<1.0	**5.86**	**44.1**	**114.00**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F1/2-5	10/7/19	0.5	ND<1.0	**1.44**	**123**	ND<0.5	ND<0.5	**46**	ND<0.5	**8.99**	**18.1**	**5.12**	ND<0.01	ND<5.0	**6.19**	ND<1.0	ND<1.0	ND<1.0	**51.1**	**177.00**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess the concentration of metals in soil beneath Flume associated with Cooling Tower 3	**F3-1**	10/7/19	0.5	ND<1.0	ND<0.30	**271**	ND<0.5	ND<0.5	**49.3**	ND<0.5	**16**	**17**	**2.89**	ND<0.01	ND<5.0	ND	ND<1.0	ND<1.0	**14.9**	**70.8**	**78.7**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2.43**	--	--
	F3-2	10/7/19	0.5	ND<1.0	ND<0.30	**131**	ND<0.5	ND<0.5	**28.3**	ND<0.5	**7.23**	**7.1**	**1.67**	ND<0.01	ND<5.0	**2.89**	ND<1.0	ND<1.0	**3.52**	**45.7**	**37.8**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F3-3	10/7/19	0.5	ND<1.0	ND<0.30	**97.6**	ND<0.5	ND<0.5	**16.4**	ND<0.5	**4.79**	**4.08**	**0.897**	ND<0.01	ND<5.0	**2.68**	ND<1.0	ND<1.0	ND<1.0	**25.6**	**25.6**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F3-4	10/7/19	0.5	ND<1.0	**0.515**	**127**	ND<0.5	ND<0.5	**30.8**	ND<0.5	**7.93**	**8.67**	**2.4**	ND<0.01	ND<5.0	**2.96**	ND<1.0	ND<1.0	**8.24**	**45.4**	**41.3**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Assess the concentration of metals in soil beneath Flume associated with Cooling Tower 4	**F4-1**	10/7/19	0.5	ND<1.0	0.357	**138**	ND<0.5	ND<0.5	**39.2**	ND<0.5	**10.8**	**11.9**	**3.25**	ND<0.01	ND<5.0	**4.27**	ND<1.0	ND<1.0	**9.26**	**53.3**	**56.5**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F4-2	10/7/19	0.5	ND<1.0	**0.46**	**90.7**	ND<0.5	ND<0.5	**27.3**	ND<0.5	**6.14**	**6.79**	**1.53**	ND<0.01	ND<5.0	**3.52**	ND<1.0	ND<1.0	**1.83**	**38.1**	**34.4**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F4-3	10/7/19	0.5	ND<1.0	**0.479**	**74.2**	ND<0.5	ND<0.5	**27.1**	ND<0.5	**6.19**	**7.14**	**1.68**	ND<0.01	ND<5.0	**4.3**	ND<1.0	ND<1.0	ND<1.0	**38**	**32.5**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	F4-4	10/7/19	0.5	ND<1.0	**0.682**	**97.7**	ND<0.5	ND<0.5	**32.5**	ND<0.5	**7.29**	**10.1**	**2.68**	ND<0.01	ND<5.0	**5.39**	ND<1.0	ND<1.0	ND<1.0	**43.4**	**47.7**
			1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Protection of Human Health		**EPA-RSLi**		470	3.0	22,000	2,300	980	1,800,000	6.3	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
		DTSC-SLi		NA	0.36	NA	210	7.3	170,000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
		Background for Arsenic		NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria		**TTLC**		500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
		STLC		15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
		10x STLC		150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
		20x STLC		NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

EPA-RSLi - EPA Regional Screening Levels for industrial/commercial land use, dated April 2019

Title 22 Metals analyzed in general accordance with EPA Method No. 6010/7000

Chromium VI - hexavalent chromium analyzed in general accordance with EPA Method No. 7179

EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial ambient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land , dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

Yellow highlighted cell indicates a concentration that exceeds a regulatory screening level for protection of human health

Table source is from Ardent

TABLE 16 - ARDENT LABORATORY RESULTS OF SOIL SAMPLES, TRIBUTARY

Rationale	Soil Sample ID	Sample Date	Sample Depth (feet bgs)	TPHcc (mg/kg)			PCBs (mg/kg)		Title 22 Metals (mg/kg)																
				TPHg C_4 - C_{10}	TPHd C_{10} - C_{28}	TPHo C_{23} - C_{35}	Aroclor 1254	All Others	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Assess concentrations of metals and petroleum hydrocarbons potentially flowing off-site	**TB-1**	10/9/19	0.5	ND<10	**58**	**445**	0.03	ND<0.01	ND<1.0	**1.51**	**159**	ND<0.5	**1.31**	**59.7**	ND<0.2	**7.18**	**66.4**	**75.4**	**0.067**	ND<5.0	**26.1**	ND<1.0	ND<1.0	**3.79**	**44.2**	**414**
Protection of Human Health	**EPA-RSLi**			420	600	33,000	0.97	Various	470	3.0	22,000	2,300	980	1,800,000	6	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
	DTSC-SLi			NA	NA	NA	0.58	Various	NA	0.36	NA	210	7.3	170000	6.2	NA	NA	320	4.5	NA	3,100	NA	1,500	NA	1,000	NA
	Background for Arsenic			NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Protection of Environment	**LARWQCB**			100	10,000	50000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disposal Criteria	**TTLC**			NA	NA	NA	NA	NA	500	500	10,000	75	100	2,500	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
	STLC			NA	NA	NA	NA	NA	15	5	100	0.75	1	560	5	80	25	5	0.2	350	20	1	5	7	24	250
	10x STLC			NA	NA	NA	NA	NA	150	50	1,000	7.5	10	5,600	50	800	250	50	2	3,500	200	10	50	70	240	2,500
	20x STLC			NA	NA	NA	NA	NA	NA	100	2,000	NA	20	NA	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA

Notes:

ID - identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

ND - no detectable concentrations above the laboratory reporting limit

NA - not available/not applicable

-- - not analyzed

TPHcc - total petroleum hydrocarbons carbon chain C4-C35 analyzed in general accordance with EPA Method No. 8015 (modified)

TPHg - total petroleum hydrocarbons as gasoline

Table source is from Ardent

TPHd - total petroleum hydrocarbons as diesel fuel

TPHo - total petroleum hydrocarbons as oil

EPA-RSLi - Environmental Protection Agency, Region 9, Regional Screening Levels for industrial abient air modified for soil gas using the approved EPA attenuation factor of 0.03 for residential land , dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA), Note 3, Screening Levels for industrial ambient air modified for soil gas using the EPA approved attenuation factor of 0.03 for residential land use, dated April 2019. The EPA does not have attenuation factors for industrial/commercial land use.

TTLC - Total Threshold Limit Concentration

STLC - Soluble Threshold Limit Concentration

Table 17
ERM Summary of Metals in Soil, Construction and Operations Waste Area, AOI 22
Etiwanda Generating Station
Rancho Cucamonga, California

				Analyte	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
				Method	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			USEPA RSL Industrial Soil THQ1.0 May 2020		470	NA	220,000	2,300	980	1,800,000^	350	47,000	800	46	5,800	22,000	5,800	5,800	12	5,800	350,000
			CA DTSC Note 3 Soil C/I Combined June 2020		NS	12*	NS	230	780	NS	NS	NS	320	4.4	NS	11,000	NS	NS	NS	NS	NS
Location ID	Sample Date	Depth	Sample ID	Lab SDG																	
BSS-2-24	24 Jun 2020	2ft	BSS-2-24	570-31775-1	NA	< 0.258	NA	NA	NA	NA	NA	NA	**1.47**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-2-25	24 Jun 2020	2ft	BSS-2-25	570-31775-1	NA	**1.73**	NA	NA	NA	NA	NA	NA	**1.93**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-2-27	26 Jun 2020	2ft	BSS-2-27	570-32008-1	NA	**0.737 J**	NA	NA	NA	NA	NA	NA	**0.415 J**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-2-28	26 Jun 2020	2ft	BSS-2-28	570-32008-1	NA	**2.10**	NA	NA	NA	NA	NA	NA	**2.98**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-2-29	26 Jun 2020	2ft	BSS-2-29	570-32008-1	NA	**0.527 J**	NA	NA	NA	NA	NA	NA	**1.10**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-11	19 Jun 2020	3ft	BSS-3-11	570-31444-1	NA	**2.34**	NA	NA	NA	NA	NA	NA	**7.20 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-15	23 Jun 2020	3ft	BSS-3-15	570-31676-1	NA	**0.692 J**	NA	NA	NA	NA	NA	NA	**1.13**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-16	23 Jun 2020	3ft	BSS-3-16	570-31676-1	NA	**0.812**	NA	NA	NA	NA	NA	NA	**3.28**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-5	18 Jun 2020	3ft	BSS-3-5	570-31325-1	NA	**9.40**	NA	NA	NA	NA	NA	NA	**20.4**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-6	18 Jun 2020	3ft	BSS-3-6	570-31325-1	NA	< 0.270	NA	NA	NA	NA	NA	NA	**1.01**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-3-7	19 Jun 2020	3ft	BSS-3-7	570-31444-1	NA	< 0.260	NA	NA	NA	NA	NA	NA	**2.91 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4.5-14	19 Jun 2020	4.5ft	BSS-4.5-14	570-31444-1	NA	**0.294 J**	NA	NA	NA	NA	NA	NA	**2.00 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-12	19 Jun 2020	4ft	BSS-4-12	570-31444-1	NA	**9.12**	NA	NA	NA	NA	NA	NA	**35.2 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-19	23 Jun 2020	4ft	BSS-4-19	570-31676-1	NA	**1.23**	NA	NA	NA	NA	NA	NA	**2.86**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-20	24 Jun 2020	4ft	BSS-4-20	570-31775-1	NA	**1.17**	NA	NA	NA	NA	NA	NA	**1.36**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-21	24 Jun 2020	4ft	BSS-4-21	570-31775-1	NA	**1.71**	NA	NA	NA	NA	NA	NA	**1.50**	NA	NA	NA	NA	NA	NA	NA	NA
	24 Jun 2020	4ft	BSS-4-21	570-31775-2	< 0.148	**2.52**	**125**	**0.563**	**0.521**	**19.4**	**8.32**	**13.4**	**1.75 B**	< 0.0133 H	< 0.131	**10.4**	< 0.299 L	< 0.0853	**0.423 J**	**39.2**	**44.2 B**
BSS-4-30	26 Jun 2020	4ft	BSS-4-30	570-32008-1	NA	**2.28**	NA	NA	NA	NA	NA	NA	**1.81**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-4-32	26 Jun 2020	4ft	BSS-4-32	570-32008-1	NA	**0.607 J**	NA	NA	NA	NA	NA	NA	**2.47**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-22	24 Jun 2020	5ft	BSS-5-22	570-31775-1	NA	**0.755 J**	NA	NA	NA	NA	NA	NA	**1.53**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-23	24 Jun 2020	5ft	BSS-5-23	570-31775-1	NA	**1.58**	NA	NA	NA	NA	NA	NA	**1.39**	NA	NA	NA	NA	NA	NA	NA	NA
	24 Jun 2020	5ft	BSS-5-23	570-31775-2	**0.453 JB**	**1.87**	**94.5**	**0.412**	**0.324 J**	**12.7**	**6.05**	**8.11**	**0.987 B**	< 0.0131 H	< 0.131	**7.04**	< 0.297 L	< 0.0849	< 0.150	**27.8**	**31.4 B**
BSS-5-26	26 Jun 2020	5ft	BSS-5-26	570-32008-1	NA	**3.19**	NA	NA	NA	NA	NA	NA	**0.753**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-33	30 Jun 2020	5ft	BSS-5-33	570-32191-1	NA	< 0.259	NA	NA	NA	NA	NA	NA	**1.20**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-34	30 Jun 2020	5ft	BSS-5-34	570-32191-1	NA	**11.9**	NA	NA	NA	NA	NA	NA	**18.7**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-5-35	30 Jun 2020	5ft	BSS-5-35	570-32191-1	NA	**0.520 J**	NA	NA	NA	NA	NA	NA	**0.404 J**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-6.5-31	30 Jun 2020	6.5ft	BSS-6.5-31	570-32191-1	NA	**1.32**	NA	NA	NA	NA	NA	NA	**7.70**	NA	NA	NA	NA	NA	NA	NA	NA
	30 Jun 2020	6.5ft	BSS-6.5-31	570-32191-2	< 0.145	**2.99**	**100**	**0.507**	**0.404 J**	**17.3**	**6.31**	**21.2**	**17.9 B**	< 0.0129 H	< 0.129	**17.2**	< 0.293 L	< 0.0836	**0.438 J**	**39.7**	**59.7 B**
BSS-6-17	23 Jun 2020	6ft	BSS-6-17	570-31676-1	NA	< 0.256	NA	NA	NA	NA	NA	NA	**1.34**	NA	NA	NA	NA	NA	NA	NA	NA
~~BSS-6-31~~	~~26 Jun 2020~~	~~6ft~~	~~BSS-6-31~~	~~570-32008-1~~	~~NA~~	~~**14.6**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~**3.67**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
~~BSS-6-4~~	~~18 Jun 2020~~	~~6ft~~	~~BSS-6-4~~	~~570-31325-1~~	~~NA~~	~~**12.6**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~**4.90**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
BSS-6-5	18 Jun 2020	6ft	BSS-6-5	570-31325-1	NA	**0.455 J**	NA	NA	NA	NA	NA	NA	**0.825**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-6-6	18 Jun 2020	6ft	BSS-6-6	570-31325-1	NA	**1.44**	NA	NA	NA	NA	NA	NA	**0.465 J**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-6-8	19 Jun 2020	6ft	BSS-6-8	570-31444-1	NA	**2.43**	NA	NA	NA	NA	NA	NA	**5.21 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-6-9	19 Jun 2020	6ft	BSS-6-9	570-31444-1	NA	< 0.250	NA	NA	NA	NA	NA	NA	**1.23 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-7-13	19 Jun 2020	7ft	BSS-7-13	570-31444-1	NA	**8.16**	NA	NA	NA	NA	NA	NA	**31.1 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-7-4	23 Jun 2020	7ft	BSS-7-4	570-31676-1	NA	**0.410 J**	NA	NA	NA	NA	NA	NA	**1.72**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-8.5-10	19 Jun 2020	8.5ft	BSS-8.5-10	570-31444-1	NA	< 0.267	NA	NA	NA	NA	NA	NA	**2.03 B**	NA	NA	NA	NA	NA	NA	NA	NA
BSS-8.5-18	23 Jun 2020	8.5ft	BSS-8.5-18	570-31676-2	NA	< 0.253 L	NA	NA	NA	NA	NA	NA	**0.931**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1.5-4	19 Jun 2020	1.5ft	ESS-1.5-4	570-31444-1	NA	< 0.260	NA	NA	NA	NA	NA	NA	**1.50 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1.5-7	19 Jun 2020	1.5ft	ESS-1.5-7	570-31444-1	NA	**0.312 J**	NA	NA	NA	NA	NA	NA	**1.56 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1.5-8	23 Jun 2020	1.5ft	ESS-1.5-8	570-31676-1	NA	< 0.264	NA	NA	NA	NA	NA	NA	**1.42**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1.5-9	23 Jun 2020	1.5ft	ESS-1.5-9	570-31676-1	NA	**1.15**	NA	NA	NA	NA	NA	NA	**3.69**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1-3	19 Jun 2020	1ft	ESS-1-3	570-31444-1	NA	**2.05**	NA	NA	NA	NA	NA	NA	**7.60 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-1-4	19 Jun 2020	1ft	ESS-1-4	570-31444-1	NA	**3.36**	NA	NA	NA	NA	NA	NA	**16.0 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-2-7	19 Jun 2020	2ft	ESS-2-7	570-31444-1	NA	**0.979**	NA	NA	NA	NA	NA	NA	**2.00 B**	NA	NA	NA	NA	NA	NA	NA	NA
~~ESS-3-1~~	~~18 Jun 2020~~	~~3ft~~	~~ESS-3-1~~	~~570-31325-1~~	~~NA~~	~~**31.5**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~**75.4**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
ESS-3-3	19 Jun 2020	3ft	ESS-3-3	570-31444-1	NA	**1.40**	NA	NA	NA	NA	NA	NA	**2.76 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-4.5-6	19 Jun 2020	4.5ft	ESS-4.5-6	570-31444-1	NA	**0.479 J**	NA	NA	NA	NA	NA	NA	**1.42 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-4-5	19 Jun 2020	4ft	ESS-4-5	570-31444-1	NA	< 0.251	NA	NA	NA	NA	NA	NA	**1.92 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-5-6	19 Jun 2020	5ft	ESS-5-6	570-31444-1	NA	< 0.268	NA	NA	NA	NA	NA	NA	**2.65 B**	NA	NA	NA	NA	NA	NA	NA	NA
ESS-6.5-5	19 Jun 2020	6.5ft	ESS-6.5-5	570-31444-1	NA	< 0.266	NA	NA	NA	NA	NA	NA	**2.38 B**	NA	NA	NA	NA	NA	NA	NA	NA
NSS-3-11	18 Jun 2020	3ft	NSS-3-11	570-31325-1	NA	**2.21**	NA	NA	NA	NA	NA	NA	**0.763**	NA	NA	NA	NA	NA	NA	NA	NA
NSS-3-12	18 Jun 2020	3ft	NSS-3-12	570-31325-1	NA	**1.72**	NA	NA	NA	NA	NA	NA	**1.78**	NA	NA	NA	NA	NA	NA	NA	NA
NSS-3-13	18 Jun 2020	3ft	NSS-3-13	570-31325-1	NA	**1.33**	NA	NA	NA	NA	NA	NA	**1.64**	NA	NA	NA	NA	NA	NA	NA	NA
NSS-3-7	18 Jun 2020	3ft	NSS-3-7	570-31325-1	NA	**0.652 J**	NA	NA	NA	NA	NA	NA	**1.20**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-1.5-3	23 Jun 2020	1.5ft	SSS-1.5-3	570-31676-1	NA	**2.05**	NA	NA	NA	NA	NA	NA	**4.93**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-1-14	30 Jun 2020	1ft	SSS-1-14	570-32191-1	NA	**0.304 J**	NA	NA	NA	NA	NA	NA	**3.81**	NA	NA	NA	NA	NA	NA	NA	NA
	30 Jun 2020	1ft	SSS-1-14	570-32191-2	**0.376 JB**	**1.68**	**83.5**	**0.506**	**0.352 J**	**9.80**	**6.06**	**6.52**	**4.20 B**	< 0.0137 H	< 0.133	**7.07**	< 0.302 L	< 0.0861	**0.262 J**	**27.7**	**33.4 B**
~~SSS-1-8~~	~~26 Jun 2020~~	~~1ft~~	~~SSS-1-8~~	~~570-32008-1~~	~~NA~~	~~**13.9**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~**28.9**~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
SSS-2-11	30 Jun 2020	2ft	SSS-2-11	570-32191-1	NA	**1.17**	NA	NA	NA	NA	NA	NA	**1.69**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-2-7	26 Jun 2020	2ft	SSS-2-7	570-32008-1	NA	**4.17**	NA	NA	NA	NA	NA	NA	**12.7**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-3-12	30 Jun 2020	3ft	SSS-3-12	570-32191-1	NA	**0.382 J**	NA	NA	NA	NA	NA	NA	**1.26**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-4.5-1	19 Jun 2020	4.5ft	SSS-4.5-1	570-31444-1	NA	< 0.260	NA	NA	NA	NA	NA	NA	**2.01 B**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-4-6	26 Jun 2020	4ft	SSS-4-6	570-32008-1	NA	**1.62**	NA	NA	NA	NA	NA	NA	**1.28**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-6-10	30 Jun 2020	6ft	SSS-6-10	570-32191-1	NA	**0.677 J**	NA	NA	NA	NA	NA	NA	**1.46**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-6-9	30 Jun 2020	6ft	SSS-6-9	570-32191-1	NA	**2.01**	NA	NA	NA	NA	NA	NA	**0.747**	NA	NA	NA	NA	NA	NA	NA	NA
SSS-7-13	30 Jun 2020	7ft	SSS-7-13	570-32191-1	NA	**1.80**	NA	NA	NA	NA	NA	NA	**0.413 J**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-1.5-5	24 Jun 2020	1.5ft	WSS-1.5-5	570-31775-1	NA	**0.427 J**	NA	NA	NA	NA	NA	NA	**3.90**	NA	NA	NA	NA	NA	NA	NA	NA
	24 Jun 2020	1.5ft	WSS-1.5-5	570-31775-2	**0.519 JB**	**0.837**	**83.6**	**0.393**	**0.412 J**	**10.4**	**5.61**	**7.70**	**3.37 B**	< 0.0140 H	< 0.131	**6.31**	< 0.299 L	< 0.0853	**0.684 J**	**24.2**	**37.0 B**

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Table 17
ERM Summary of Metals in Soil, Construction and Operations Waste Area, AOI 22
Etiwanda Generating Station
Rancho Cucamonga, California

Location ID	Sample Date	Depth	Sample ID	Lab SDG	Analyte	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
					Method	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B
					Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
					USEPA RSL Industrial Soil THQ1.0 May 2020	470	NA	220,000	2,300	980	1,800,000^	350	47,000	**800**	46	5,800	22,000	5,800	5,800	12	5,800	350,000
					CA DTSC Note 3 Soil C/I Combined June 2020	NS	**12***	NS	230	780	NS	NS	NS	**320**	4.4	NS	11,000	NS	NS	NS	NS	NS
WSS-1.5-6	24 Jun 2020	1.5ft	WSS-1.5-6	570-31775-1		NA	**0.897**	NA	NA	NA	NA	NA	NA	**2.66**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-2-2	24 Jun 2020	2ft	WSS-2-2	570-31775-1		NA	**2.10**	NA	NA	NA	NA	NA	NA	**7.75**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-2-3	24 Jun 2020	2ft	WSS-2-3	570-31775-1		NA	**1.31**	NA	NA	NA	NA	NA	NA	**1.57**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-2-4	24 Jun 2020	2ft	WSS-2-4	570-31775-1		NA	**1.06**	NA	NA	NA	NA	NA	NA	**1.81**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-2-5	26 Jun 2020	2ft	WSS-2-5	570-32008-1		NA	**1.38**	NA	NA	NA	NA	NA	NA	**1.67**	NA	NA	NA	NA	NA	NA	NA	NA
	26 Jun 2020	2ft	WSS-2-5	570-32008-2		**0.415 JB**	**0.435 J**	**92.9**	**0.467**	**0.411 J**	**14.0**	**6.58**	**10.4**	**1.78 B**	< 0.0133 H	< 0.134	**8.47**	< 0.305 L	< 0.0870	**0.605 J**	**29.6**	**35.1 B**
WSS-2-7	30 Jun 2020	2ft	WSS-2-7	570-32191-1		NA	< 0.260	NA	NA	NA	NA	NA	NA	**0.902**	NA	NA	NA	NA	NA	NA	NA	NA
WSS-3-6	30 Jun 2020	3ft	WSS-3-6	570-32191-1		NA	< 0.258	NA	NA	NA	NA	NA	NA	**0.425 J**	NA	NA	NA	NA	NA	NA	NA	NA
LFI-1-BS-1	07-May-20	5ft	LFI-1-BS-5-1	570-27652-1		**0.539 JB**	**2.75**	**79.0**	**0.281**	**0.193 J**	**9.40**	**5.03**	**13.0**	**2.23**	< 0.00597	< 0.133	**5.68**	**0.689 JB**	**0.120 JB**	< 0.153	**22.0**	**25.0**
~~LFI-1-ESS-4~~	~~07-May-20~~	~~2.5ft~~	~~LFI-1-ESS-2.5-4~~	~~570-27652-1~~		~~< 0.152~~	~~**122**~~	~~**305**~~	~~**0.548**~~	~~**1.45**~~	~~**363**~~	~~**5.02**~~	~~**1,770**~~	~~**321**~~	~~**0.107**~~	~~**2.77 B**~~	~~**26.9**~~	~~**0.611 JB**~~	~~**0.368 B**~~	~~< 0.155~~	~~**65.5**~~	~~**589**~~
LFI-1-NSS-1	07-May-20	2.5ft	LFI-1-NSS-2.5-1	570-27652-1		< 0.145	**1.57**	**83.0**	**0.302**	**0.203 J**	**8.35**	**4.73**	**14.1**	**1.91**	< 0.00568	< 0.129	**5.18**	< 0.293	**0.128 JB**	**0.238 J**	**21.6**	**26.9**
~~LFI-1-SSS-3~~	~~07-May-20~~	~~2.5ft~~	~~LFI-1-SSS-2.5-3~~	~~570-27652-1~~		~~< 0.151~~	~~**340**~~	~~**538**~~	~~**0.922**~~	~~**2.84**~~	~~**749**~~	~~**7.92**~~	~~**4,560**~~	~~**1,100**~~	~~**0.236**~~	~~**6.82 B**~~	~~**40.0**~~	~~**2.22 B**~~	~~**1.41 B**~~	~~< 0.154 L~~	~~**125**~~	~~**883**~~
LFI-1-WSS-2	07-May-20	2.5ft	LFI-1-WSS-2.5-2	570-27652-1		< 0.148	**1.07**	**76.1**	**0.266**	**0.196 J**	**8.59**	**4.31**	**12.3**	**1.58**	< 0.00559	< 0.131	**5.28**	**0.530 JB**	< 0.0849	**0.312 J**	**19.9**	**22.8**
LFI-3-BS-1	06-May-20	8ft	LFI-3-BS-8-1	570-27534-1		< 0.151	**0.659 J**	**50.8**	**0.225 J**	< 0.137	**5.74**	**3.26**	**4.25**	**1.27 B**	**0.0725 J**	< 0.134	**3.97**	< 0.305 L	< 0.0870	**0.661 J**	**15.5**	**19.3**
LFI-3-BS-2	06-May-20	8ft	LFI-3-BS-8-2	570-27534-1		**0.251 J**	**0.735 J**	**56.7**	**0.251 J**	< 0.138	**7.14**	**3.63**	**7.11**	**1.65 B**	**0.0581 J**	< 0.135	**4.76**	< 0.306 L	< 0.0874	**0.440 J**	**18.3**	**19.9**
LFI-3-BS-3	07-May-20	8ft	LFI-3-BS-8-3	570-27655-1		< 0.149	**1.48**	**78.2**	**0.338**	**0.196 J**	**11.0**	**4.27**	**13.5**	**2.37**	< 0.00559	**0.134 JB**	**8.29**	< 0.300 L	**0.109 JB**	**0.253 J**	**27.3**	**30.6**
LFI-3-BS-4	07-May-20	8ft	LFI-3-BS-8-4	570-27655-1		**0.167 JB**	**1.25**	**42.0**	**0.139 J**	< 0.136	**4.31**	**2.43**	**8.67**	**1.43**	< 0.00559	< 0.133	**3.17**	< 0.302 L	**0.113 JB**	**0.440 J**	**11.2**	**13.6**
LFI-3-BS-5	07-May-20	8ft	LFI-3-BS-8-5	570-27655-1		< 0.146	**1.25**	**44.4**	**0.162 J**	< 0.132	**4.87**	**2.59**	**9.42**	**1.90**	< 0.00597	< 0.129	**3.42**	< 0.294	**0.105 JB**	**0.415 J**	**12.3**	**14.4**
LFI-3-BS-6	07-May-20	8ft	LFI-3-BS-8-6	570-27655-1		< 0.150	**1.30**	**35.2**	< 0.138	< 0.136	**3.43**	**1.95**	**6.85**	**1.59**	< 0.00559	**0.148 JB**	**2.44**	< 0.302 L	**0.181 JB**	**0.284 J**	**8.72**	**10.9**
LFI-3-ESS-3	07-May-20	5ft	LFI-3-ESS-5-3	570-27655-1		< 0.145	**2.89**	**70.8**	**0.298**	**0.210 J**	**9.85**	**4.41**	**15.4**	**7.15**	**0.0103 J**	**0.335 B**	**7.80**	< 0.291	< 0.0832	**0.438 J**	**22.3**	**47.7**
LFI-3-NSS-4	07-May-20	5.5ft	LFI-3-NSS-5.5-4	570-27655-1		**0.721 JB**	**2.25**	**79.0**	**0.279**	**0.184 J**	**8.60**	**4.58**	**11.0**	**1.97**	< 0.00607	< 0.133	**5.15**	< 0.302 L	**0.0902 JB**	< 0.153	**20.6**	**23.4**
LFI-3-SSS-1	06-May-20	5ft	LFI-3-SSS-5-1	570-27534-1		< 0.150	**5.60**	**122**	**0.477**	**0.243 J**	**23.5**	**6.90**	**72.9**	**8.97 B**	**0.0389 J**	< 0.133	**10.8**	< 0.302 L	< 0.0861	< 0.153	**34.8**	**73.3**
~~LFI-3-WSS-2~~	~~06-May-20~~	~~5ft~~	~~LFI-3-WSS-5-2~~	~~570-27534-1~~		~~< 0.148~~	~~**379**~~	~~**318**~~	~~**1.21**~~	~~**9.64**~~	~~**808**~~	~~**19.8**~~	~~**6,460**~~	~~**1,360 B**~~	~~**0.338**~~	~~**10.7**~~	~~**85.4**~~	~~< 0.297 L~~	~~**1.97 B**~~	~~< 0.150 L~~	~~**132**~~	~~**2,710**~~

Notes:
Results in mg/kg.
< = Compound not detected. Reportable detection limit shown.
Bolded values indicate concentrations above the reportable detection limit.
Shaded values indicate concentrations above the standard.
** = Southern California background concentration of 12 mg/kg used.*
^ = Industrial RSL for Chromium III used in absence of Total Chromium Industrial RSL.
~~Strikethrough~~ indicates sample was over-excavated due to a screening level exceedance (refer to Table 4 for sample ID of resample).
Samples with two sets of results are the same sample analyzed on separate dates.

Qualifiers - Inorganic:
B = Compound was found in the blank and sample.
J = Result is less than the reporting limit, but greater than or equal to the method detection limit; concentration is an approximate value.
L = A negative instrument reading had an absolute value greater than the reporting limit.
H = Sample was prepped or analyzed beyond the specified holding time.

SW6010B analyses performed by Eurofins Calscience Environmental Laboratories, Inc.
SW7471A analyses performed by Eurofins Calscience Environmental Laboratories, Inc.
CA DTSC Note 3 Soil C/I Combined June 2020 = CA DTSC Note 3 C/I Soil Screening Level combined as minimum of Cancer/Noncancer Endpoint, updated June 2020
EPA RSL Industrial Soil THQ1.0 May 2020 = RSL Industrial Soil (TR=1E 06, HQ=1) May 2020

Abbreviations:
CA DTSC = California Department of Toxic Substances Control
C/I = Commercial/Industrial
ft = Feet
mg/kg = Milligrams per kilogram
NA = Not Applicable
NS = No Standard
RSL = Regional Screening Level
USEPA = U.S. Environmental Protection Agency

Table source is from ERM

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Table 18
ERM Summary of VOCs in Soil, Construction and Operations Waste Area, AOI 22
Etiwanda Generating Station
Rancho Cucamonga, California

Analyte	Location ID Sample Date Depth CA DTSC Note 3 Soil C/I Combined June 2020	BSS-5-23 6/24/2020 5 ft	BSS-8.5-18 6/23/2020 8.5 ft
SW8260B			
1,1,1,2-Tetrachloroethane	8,800	< 0.23	< 0.26
1,1,1-Trichloroethane	7,200,000	< 0.22	< 0.24
1,1,2,2-Tetrachloroethane	2,700	< 0.33	< 0.37
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	NS	< 0.34	< 0.38 *
1,1,2-Trichloroethane	NS	< 0.34	< 0.38
1,1-Dichloroethane	16,000	< 0.20	< 0.23
1,1-Dichloroethene	350,000	< 0.34	< 0.37
1,1-Dichloropropene	NS	< 0.32	< 0.35
1,2,3-Trichlorobenzene	300,000	< 0.88	< 0.98
1,2,3-Trichloropropane	21	< 0.80	< 0.89
1,2,4-Trichlorobenzene	35,000	< 0.30	< 0.33
1,2,4-Trimethylbenzene	NS	< 0.57	< 0.63
1,2-Dibromo-3-chloropropane	57	< 1.7	< 1.9
1,2-Dichlorobenzene	NS	< 0.22	< 0.25
1,2-Dichloroethane	NS	< 0.30	< 0.34
1,2-Dichloropropane	NS	< 0.42	< 0.47
1,3,5-Trimethylbenzene	NS	< 0.53	< 0.59
1,3-Dichlorobenzene	NS	< 0.17	< 0.19
1,3-Dichloropropane	2,200,000	< 0.24	< 0.27
1,4-Dichlorobenzene	NS	< 0.22	< 0.24
2,2-Dichloropropane	NS	< 0.32	< 0.36
2-Butanone	NS	< 3.7	< 4.1
2-Hexanone	NS	< 1.7	< 1.9
4-Chlorotoluene	2,300,000	< 0.21	< 0.23
4-Isopropyltoluene	NS	< 0.61	< 0.68
4-Methyl-2-pentanone	NS	< 4.2	< 4.7
Acetone	NS	**18 J**	**19 J**
Benzene	1,400	**0.76 J**	**0.46 J**
Bromobenzene	NS	< 0.20	< 0.23
Bromodichloromethane	1,300	< 0.23	< 0.25
Bromoform	86,000	< 0.77	< 0.86
Carbon disulfide	NS	**0.43 J**	< 0.33
Carbon tetrachloride	2,900	< 0.27	< 0.30
Chlorobenzene	NS	< 0.22	< 0.24
Chlorobromomethane	NS	< 0.67	< 0.74
Chloroethane	NS	< 1.4	< 1.6
Chloroform	NS	< 0.23	< 0.26
cis-1,2-Dichloroethene	84,000	< 0.27	< 0.30
cis-1,3-Dichloropropene	NS	< 0.25	< 0.27
Dibromochloromethane	4,100	< 0.55	< 0.61
Dibromomethane	NS	< 0.75	< 0.83
Dichlorodifluoromethane (Freon 12)	NS	< 0.43	< 0.48
Ethylbenzene	NS	< 0.15	< 0.16
Ethylene dibromide	160	< 0.25	< 0.28
Isopropylbenzene (Cumene)	NS	< 0.53	< 0.59
m,p-Xylenes	NS	< 0.26	< 0.29
Methyl bromide	NS	< 9.1	< 10
Methyl chloride	NS	< 0.29	< 0.33
Methyl tert-butyl ether	NS	< 0.29	< 0.32
Methylene chloride	26,000	< 1.3	< 1.4
Naphthalene	6,500	< 0.79	< 0.88
n-Butylbenzene	18,000,000	< 0.15	< 0.17
n-Propylbenzene	NS	< 0.49	< 0.54
o-Chlorotoluene (2-chlorotoluene)	2,500,000	< 0.22	< 0.25
o-Xylene	NS	< 0.54	< 0.60
sec-Butylbenzene	12,000,000	< 0.56	< 0.62
Styrene	32,000,000	< 0.59	< 0.65
tert-Butylbenzene	12,000,000	< 0.15	< 0.16
Tetrachloroethene	2,700	< 0.20	< 0.23
Toluene	5,300,000	**0.53 J**	< 0.56
trans-1,2-Dichloroethene	600,000	< 0.49	< 0.55
trans-1,3-Dichloropropene	NS	< 0.59	< 0.65
Trichloroethene	NS	< 0.29	< 0.32
Trichlorofluoromethane (Freon 11)	5,400,000	< 0.36	< 0.40
Vinyl acetate	NS	< 4.6	< 5.1
Vinyl chloride	150	< 0.49	< 0.54

Notes:
Results in micrograms per kilogram.
< = Compound not detected. Reportable detection limit shown.
Bolded values indicate concentrations above the reportable detection limit.
** = LCS or LCSD is outside acceptance limits.*

Qualifiers:
J = Result is less than the reporting limit, but greater than or equal to the method detection limit; Concentration is an approximate value.

CA DTSC Note 3 Soil C/I Combined June 2019 = CA DTSC Note 3 C/I Soil Screening Level combined as minimum of Cancer/Noncancer Endpoint, updated June 2020.
All analyses performed by Eurofins Calscience Environmental Laboratories, Inc. (Calscience).

Abbreviations:
CA DTSC = California Department of Toxic Substances Control
C/I = Commercial/Industrial
ft = Feet
LCS =Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
VOC = Volatile organic compound
NS = No standard
Table source is from ERM

Table 19
ERM Summary of TPH in Soil, Construction and Operations Waste Area, AOI 22
Etiwanda Generating Station
Rancho Cucamonga, California

Analyte	Location ID Sample Date Sample Type Depth	BSS-5-23 24-Jun-20 N 5 ft	BSS-8.5-18 23-Jun-20 N 8.5 ft
Method SW8015B			
C11-C12-Total		< 3.6	< 3.5
C13-C14-Total		< 3.6	< 3.5
C15-C16-Total		< 3.6	< 3.5
C17-C18-Total		< 3.6	< 3.5
C17-C44-Total		< 3.8	< 3.7
C19-C20-Total		< 3.6	< 3.5
C21-C22-Total		< 3.6	< 3.5
C23-C24-Total		< 3.6	< 3.5
C25-C28-Total		< 3.6	< 3.5
C29-C32-Total		< 3.6	< 3.5
C33-C36-Total		< 3.6	< 3.5
C37-C40-Total		< 3.6	< 3.5
C41-C44-Total		< 3.6	< 3.5
C6		< 3.6	< 3.5
C6-C44-Total		< 3.6	< 3.5
C7		< 3.6	< 3.5
C-8		< 3.6	< 3.5
C9-C10-Total		< 3.6	< 3.5
Diesel Range Organics (C10-C28)		< 3.6	< 3.5
Diesel Range Organics (C13-C22)		< 3.6	< 3.5

Notes:
Results in mg/kg.
< = Compound not detected. Reportable detection limit shown.
Bolded values indicate concentrations above the reportable detection limit.

All analyses performed by Eurofins Calscience Environmental Laboratories, Inc.

Abbreviations:
ft = Feet
N = Normal environmental sample
TPH = Total petroleum hydrocarbon
Table source is ERM

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TABLE 20
Interim Data Gap Soil Sample Analytical Results - Total Petroleum Hydrocarbons (TPH)
Etiwanda Generating Station

Area of Concern	Feature Name	Boring ID	Depth in Feet Below Ground Surface	Sample Date	TPH as Gasoline EPA 8015B		TPH as Diesel EPA 8015B			
					TPH Gasoline C4-C12	Low Aromatic C6-C8	Medium Aromatic C9-C16	TPH Diesel C13-C22	High Aromatic C17-C32	TPH Motor Oil C23-C32
					milligrams per kilogram (mg/kg)		milligrams per kilogram (mg/kg)			
12a	Cooling Transformer and Switch Panel	HA16	0.5	10/29/20	<0.223	<0.223	<10.0	<10.0	<10.0	<10.0
		HA16	2.5	10/29/20	<0.200	<0.200	<10.0	<10.0	<10.0	<10.0
		HA17	0.5	10/29/20	<0.210	<0.210	<10.0	<10.0	<10.0	<10.0
		HA17	2.5	10/29/20	<0.201	<0.201	<10.0	<10.0	<10.0	<10.0
23	Auxiliary Transformer	HA12	0.5	10/29/20	<0.192	<0.192	<10.0	<10.0	<10.0	<10.0
		HA12	2.5	10/29/20	<0.228	<0.228	<10.0	<10.0	<10.0	<10.0
		HA13	0.5	10/29/20	<0.172	<0.172	<10.0	**63.0**	**72.0**	**6.8 J**
		HA13	2.5	10/29/20	<0.215	<0.215	<10.0	<10.0	<10.0	<10.0
		HA14	0.5	10/29/20	<0.206	<0.206	<10.0	<10.0	<10.0	<10.0
		HA14	2.5	10/29/20	<0.215	<0.215	<10.0	<10.0	<10.0	<10.0
		HA15	0.5	10/29/20	<0.223	<0.223	<10.0	<10.0	<10.0	<10.0
		HA15	2.5	10/29/20	<0.237	<0.237	<10.0	<10.0	<10.0	<10.0
23	Auxiliary Transformer	HA18	0.5	11/02/20	<0.191	<0.191	<10.0	**3.42 J**	**29.1**	**24.9**
		HA18	2.5	11/02/20	<0.204	<0.204	<10.0	<10.0	<10.0	<10.0
		HA19	0.5	11/02/20	<0.211	<0.211	<10.0	<10.0	<10.0	<10.0
		HA19	2.5	11/02/20	<0.213	<0.213	<10.0	<10.0	<10.0	<10.0
		HA20	0.5	11/02/20	<0.212	<0.212	<10.0	<10.0	<10.0	<10.0
		HA20	2.5	11/02/20	<0.198	<0.198	<10.0	<10.0	<10.0	<10.0
		HA21	0.5	11/02/20	<0.211	<0.211	<10.0	<10.0	<10.0	<10.0
		HA21	2.5	11/02/20	<0.210	<0.210	<10.0	<10.0	<10.0	<10.0
DTSC Screening Level (SL) Commercial NonCancer (June 2020)									18,000	
USEPA Regional Screening Level (RSL) Industrial (Nov 2020)						420	560		30,000	
Los Angeles RWQCB for non drinking water aquifers (May 1996)					1,000			10,000		50,000
San Francisco Bay RWQCB Tier 1 Env. Screening Levels (ESLs) (Jan 2019)					100			260		1,600
Residential Screening Levels for Information Purposes Only										
DTSC Screening Level (SL) Residential NonCancer (June 2020)									2,400	
USEPA RSL Residential (Nov 2020)						82	97		2,400	

Notes:

<: Not detected at or above the indicated Reporting Limit (RL)

J: The estimated value was less than the RL but greater than or equal to the Method Detection Limit

DTSC: Department of Toxic Substances Control

USEPA: United States Environmental Protection Agency

RWQCB: Regional Water Quality Control Board

Commercial/Industrial screening comparison data (Note: Tier 1 ESLs are not for commercial/industrial land use)

TABLE 21

Interim Data Gap Soil Sample Analytical Results Polychlorinated Biphenyls (PCBs)

Etiwanda Generating Station

Area of Concern	Feature Name	Boring ID	Depth in Feet Below Ground Surface	Sample Date	EPA 8082								
					Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
					micrograms per kilogram (µg/kg)								
12a	Cooling Transformer and Switch Panel	HA16	0.0	10/29/20	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	**30.8**	<20.0	<20.0
		HA16	0.5	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA16	1.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA17	0.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**20.4**	<10.0	<10.0
		HA17	0.5	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA17	1.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
23	Auxiliary Transformer	HA12	0.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA12	0.5	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA12	1.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA13	0.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	**23.5**	**32.0**	<10.0	<10.0
		HA13	0.5	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA13	1.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA14	0.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA14	0.5	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	**411**	<10.0	<10.0	<10.0
		HA14	1.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	**41.3**	<10.0	<10.0	<10.0
		HA15	0.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	**43.6**	**32.0**	<10.0	<10.0
		HA15	0.5	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	**17.5**	**12.9**	<10.0	<10.0
		HA15	1.0	10/29/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
23	Auxiliary Transformer	HA18	0.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**34.0**	<10.0	<10.0
		HA18	0.5	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA18	1.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	**41.3**	<10.0	<10.0	<10.0
		HA19	0.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**172**	<10
		HA19	0.5	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	**20.2**	<10.0	<10.0	<10.0
		HA19	1.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA20	0.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**19.3**	<10	<10
		HA20	0.5	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA20	1.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA21	0.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**48.5**	<10.0	<10.0
		HA21	0.5	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
		HA21	1.0	11/02/20	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DTSC Screening Level (SL) Commercial Cancer (June 2020)					17,000	530	490	580	580	590	600		
DTSC SL Commercial NonCancer (June 2020)					29,000					8,400			
USEPA Regional Screening Level (RSL) Industrial (Nov 2020)					27,000	830	720	950	940	970	990		
Residential Screening Levels for Information Purposes Only													
DTSC SL Residential Cancer (June 2020)					6,600	200	170	230	230	240	240		
DTSC SL Residential NonCancer (June 2020)					4,000					1,200			
USEPA RSL Residential (Nov 2020)					4,100	200	170	230	230	240	240		

Notes:

DTSC: Department of Toxic Substances Control

USEPA: United States Environmental Protection Agency

<: Not detected above Reporting Limit

Commercial/Industrial screening comparison data

TABLE 22
Interim Data Gap Soil Sample Analytical Results - pH
Etiwanda Generating Station

Area of Concern	Feature Name	Boring ID	Depth in Feet Below Ground Surface	Sample Date	pH EPA 9045C
					pH unit
24	Sulfuric Acid AST	HA1	0.5	10/28/20	**5.69**
		HA1	2.5	10/28/20	**6.20**
		HA2	0.5	10/28/20	**6.50**
		HA2	2.5	10/28/20	**8.70**
		HA3	0.5	10/28/20	**8.74**
		HA3	2.5	10/28/20	**9.12**
		HA4	0.5	10/28/20	**8.79**
		HA4	2.5	10/28/20	**8.92**
24	Sulfuric Acid AST	HA5	0.5	10/28/20	**9.43**
		HA5	2.5	10/28/20	**9.65**
		HA6	0.5	10/28/20	**8.11**
		HA6	2.5	10/28/20	**6.54**
		HA7	0.5	10/28/20	**7.20**
27	Sodium Hypochlorite Tank	HA8	0.5	10/28/20	**9.42**
		HA8	2.5	10/28/20	**10.1**
27	Sodium Hypochlorite Tank	HA9	0.5	10/29/20	**9.65**
		HA9	2.5	10/29/20	**9.90**
		HA10	0.5	10/29/20	**9.44**
		HA11	0.5	10/29/20	**9.60**
		HA11	2.5	10/29/20	**9.52**

Notes:
USEPA: United States Environmental Protection Agency

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-01-1.5	PFP-01-4.0	PFP-02-1.5	PFP-02-4.0	PFP-03-1.5	PFP-03-4.0	PFP-04-1.5	PFP-04-4.0	PFP-05-1.5	PFP-05-4.0	PFP-06-1.5
Boring:					PFP-01	PFP-01	PFP-02	PFP-02	PFP-03	PFP-03	PFP-04	PFP-04	PFP-05	PFP-05	PFP-06
Depth (ft bgs):		Cancer	Noncancer		1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5
Date Collected:					2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-05	2020-11-05	2020-11-05
Purgeable Total Petroleum Hydrocarbons (TPH)															
TPH-g	mg/kg	None	None	None	<0.054	<0.056	<0.069	<0.057	<0.055	<0.068	<0.053	<0.059	<0.053	<0.055	<0.049
Extractable Total Petroleum Hydrocarbons (TPH)															
C11-C12	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C13-C14	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C15-C16	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C17-C18	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C19-C20	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	5.3 J	<4.0	<4.4
C21-C22	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	5.8	<4.0	<4.4
C23-C24	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	5.9	<4.0	<4.4
C25-C28	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	15	<4.0	<4.4
C29-C32	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	18	<4.0	<4.4
C33-C36	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	9.8	<4.0	<4.4
C37-C40	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	6.2	<4.0	<4.4
C41-C44	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C6 as C6	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C6-C44	mg/kg	None	None	None	<4.0	<4.0	<4.6	6.0	8.3	<4.5	11	6.5	72	13	15
C7 as C7	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C8 as C8	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
C9-C10	mg/kg	None	None	None	<4.0	<4.0	<4.6	<4.2	<4.2	<4.5	<4.2	<4.4	<4.4	<4.0	<4.4
TPH-d	mg/kg	None	None	None	<4.0	<4.0	<4.6	4.5 J	<4.2	<4.5	<4.2	<4.4	16	6.6	4.4 J
TPH-jf	mg/kg	None	None	None	<3.2	<3.2	<3.7	<3.3	<3.3	<3.6	<3.4	<3.5	9.3	<3.2	<3.6
TPH-mo	mg/kg	None	None	None	<12	<12	<14	<12	13 J	<13	13 J	<13	71	15 J	18 J
Volatile Organic Compounds (VOCs)															
Acetone	mg/kg	None	670,000	None	<0.010	<0.011	<0.013	0.016 J	0.011 J	0.019 J	<0.010	<0.011	<0.010	<0.011	<0.0095
Benzene	mg/kg	1.4	46	None	0.00046 J	<0.00028	<0.00035	0.00036 J	0.00039 J	0.0015	0.00043 J	<0.00030	<0.00027	0.00067 J	0.00044 J
Bromobenzene	mg/kg	None	1,800	None	<0.00022	<0.00023	<0.00028	<0.00023	<0.00023	<0.00028	<0.00021	<0.00024	<0.00021	<0.00023	<0.00020
Bromochloromethane	mg/kg	None	630	None	<0.00047	<0.00049	<0.00060	<0.00050	<0.00048	<0.00059	<0.00046	<0.00051	<0.00046	<0.00048	<0.00043
Bromodichloromethane	mg/kg	1.3	1,300	None	<0.00017	<0.00017	<0.00022	<0.00018	<0.00017	<0.00021	<0.00016	<0.00018	<0.00016	<0.00017	<0.00015
Bromoform	mg/kg	86	3,000	None	<0.0014	<0.0015	<0.0018	<0.0015	<0.0014	<0.0018	<0.0014	<0.0015	<0.0014	<0.0014	<0.0013
Bromomethane	mg/kg	None	30	None	<0.0070	<0.0072	<0.0089	<0.0073	<0.0071	<0.0087	<0.0068	<0.0075	<0.0068	<0.0071	<0.0063

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-01-1.5	PFP-01-4.0	PFP-02-1.5	PFP-02-4.0	PFP-03-1.5	PFP-03-4.0	PFP-04-1.5	PFP-04-4.0	PFP-05-1.5	PFP-05-4.0	PFP-06-1.5
Boring:					PFP-01	PFP-01	PFP-02	PFP-02	PFP-03	PFP-03	PFP-04	PFP-04	PFP-05	PFP-05	PFP-06
Depth (ft bgs):		Cancer	Noncancer		1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5
Date Collected:					2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-05	2020-11-05	2020-11-05
Butanone, 2-	mg/kg	None	190,000	None	<0.0048	<0.0050	<0.0061	<0.0050	<0.0049	<0.0060	<0.0046	<0.0052	<0.0047	<0.0049	<0.0044
Butylbenzene, n-	mg/kg	None	18,000	None	<0.00022	<0.00023	<0.00029	<0.00023	<0.00023	<0.00028	<0.00022	<0.00024	<0.00022	<0.00023	<0.00020
Butylbenzene, sec-	mg/kg	None	12,000	None	<0.00064	<0.00066	<0.00082	<0.00067	<0.00065	<0.00080	<0.00062	<0.00069	<0.00062	<0.00065	<0.00058
Butylbenzene, tert-	mg/kg	None	12,000	None	<0.00027	<0.00028	<0.00035	<0.00028	<0.00027	<0.00034	<0.00026	<0.00029	<0.00026	<0.00028	<0.00025
Carbon disulfide	mg/kg	None	3,500	None	<0.00043	<0.00044	<0.00054	<0.00045	<0.00043	<0.00053	<0.00041	<0.00046	<0.00041	<0.00043	<0.00039
Carbon tetrachloride	mg/kg	2.9	250	None	<0.00032	<0.00033	<0.00041	<0.00033	<0.00032	<0.00040	<0.00031	<0.00034	<0.00031	<0.00032	<0.00029
Chlorobenzene	mg/kg	None	1,300	None	<0.00028	<0.00029	<0.00036	<0.00030	<0.00029	<0.00036	<0.00028	<0.00031	<0.00028	<0.00029	<0.00026
Chloroethane	mg/kg	None	57,000	None	<0.0016	<0.0016	<0.0020	<0.0017	<0.0016	<0.0020	<0.0015	<0.0017	<0.0015	<0.0016	<0.0014
Chloroform	mg/kg	1.4	1,000	None	<0.00063	<0.00065	<0.00080	<0.00066	<0.00064	<0.00078	<0.00061	<0.00068	<0.00061	<0.00064	<0.00057
Chloromethane	mg/kg	None	460	None	<0.0016	<0.0017	<0.0021	<0.0017	<0.0017	<0.0020	<0.0016	<0.0018	<0.0016	<0.0017	<0.0015
Chlorotoluene, 2-	mg/kg	None	2,500	None	<0.00027	<0.00028	<0.00034	<0.00028	<0.00027	<0.00033	<0.00026	<0.00029	<0.00026	<0.00027	<0.00024
Chlorotoluene, 4-	mg/kg	None	2,300	None	<0.00026	<0.00027	<0.00033	<0.00027	<0.00026	<0.00032	<0.00025	<0.00028	<0.00025	<0.00026	<0.00023
Dibromochloromethane	mg/kg	4.1	2,500	None	<0.00029	<0.00030	<0.00037	<0.00030	<0.00029	<0.00036	<0.00028	<0.00031	<0.00028	<0.00030	<0.00026
Dibromochloropropane, 1,2-, 3-	mg/kg	0.057	25	None	<0.0072	<0.0074	<0.0092	<0.0076	<0.0073	<0.0090	<0.0070	<0.0078	<0.0070	<0.0073	<0.0065
Dibromoethane, 1,2-	mg/kg	0.16	30	None	<0.00022	<0.00023	<0.00028	<0.00023	<0.00022	<0.00027	<0.00021	<0.00024	<0.00021	<0.00022	<0.00020
Dibromomethane	mg/kg	None	99	None	<0.00032	<0.00034	<0.00041	<0.00034	<0.00033	<0.00041	<0.00031	<0.00035	<0.00031	<0.00033	<0.00029
Dichlorobenzene, 1,2-	mg/kg	None	9,300	None	<0.00027	<0.00028	<0.00034	<0.00028	<0.00027	<0.00033	<0.00026	<0.00029	<0.00026	<0.00027	<0.00024
Dichlorobenzene, 1,3-	mg/kg	None	None	None	<0.00027	<0.00028	<0.00034	<0.00028	<0.00027	<0.00033	<0.00026	<0.00029	<0.00026	<0.00027	<0.00024
Dichlorobenzene, 1,4-	mg/kg	11	25,000	None	<0.00033	<0.00034	<0.00042	<0.00034	<0.00033	<0.00041	<0.00032	<0.00035	<0.00032	<0.00033	<0.00030
Dichlorodifluoromethane	mg/kg	None	370	None	<0.00048	<0.00050	<0.00062	<0.00051	<0.00049	<0.00060	<0.00047	<0.00052	<0.00047	<0.00049	<0.00044
Dichloroethane, 1,1-	mg/kg	16	7,100	None	<0.00030	<0.00031	<0.00038	<0.00031	<0.00030	<0.00037	<0.00029	<0.00032	<0.00029	<0.00030	<0.00027
Dichloroethane, 1,2-	mg/kg	2.0	140	None	<0.00029	<0.00030	<0.00038	<0.00031	<0.00030	<0.00037	<0.00028	<0.00032	<0.00028	<0.00030	<0.00027
Dichloroethene, 1,1-	mg/kg	None	350	None	<0.00028	<0.00029	<0.00036	<0.00030	<0.00029	<0.00035	<0.00027	<0.00030	<0.00027	<0.00029	<0.00026
Dichloroethene, 1,2-, cis-	mg/kg	None	84	None	<0.00036	<0.00037	<0.00046	<0.00038	<0.00036	<0.00045	<0.00035	<0.00039	<0.00035	<0.00037	<0.00033
Dichloroethene, 1,2-, trans-	mg/kg	None	600	None	<0.00032	<0.00033	<0.00041	<0.00034	<0.00032	<0.00040	<0.00031	<0.00035	<0.00031	<0.00033	<0.00029
Dichloropropane, 1,2-	mg/kg	11	66	None	<0.00029	<0.00030	<0.00037	<0.00031	<0.00030	<0.00037	<0.00028	<0.00032	<0.00028	<0.00030	<0.00027
Dichloropropane, 1,3-	mg/kg	None	2,200	None	<0.00031	<0.00032	<0.00040	<0.00033	<0.00032	<0.00039	<0.00030	<0.00034	<0.00030	<0.00032	<0.00029
Dichloropropane, 2,2-	mg/kg	None	None	None	<0.00029	<0.00030	<0.00037	<0.00030	<0.00029	<0.00036	<0.00028	<0.00031	<0.00028	<0.00029	<0.00026
Dichloropropene, 1,1-	mg/kg	None	None	None	<0.00041	<0.00043	<0.00053	<0.00043	<0.00042	<0.00051	<0.00040	<0.00045	<0.00040	<0.00042	<0.00037
Dichloropropene, 1,3-, cis-	mg/kg	None	None	None	<0.00037	<0.00038	<0.00047	<0.00039	<0.00038	<0.00046	<0.00036	<0.00040	<0.00036	<0.00038	<0.00034
Dichloropropene, 1,3-, trans-	mg/kg	None	None	None	<0.00030	<0.00031	<0.00038	<0.00031	<0.00030	<0.00037	<0.00029	<0.00032	<0.00029	<0.00030	<0.00027

Table 23. PathFoward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID / Boring / Depth (ft bgs) / Date Collected:	Units	Commercial/Industrial RBSLs		Background	PFP-01-1.5	PFP-01-4.0	PFP-02-1.5	PFP-02-4.0	PFP-03-1.5	PFP-03-4.0	PFP-04-1.5	PFP-04-4.0	PFP-05-1.5	PFP-05-4.0	PFP-06-1.5
					PFP-01	PFP-01	PFP-02	PFP-02	PFP-03	PFP-03	PFP-04	PFP-04	PFP-05	PFP-05	PFP-06
		Cancer	Noncancer		1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5
					2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-05	2020-11-05	2020-11-05
Ethylbenzene	mg/kg	25	20,000	None	<0.00022	<0.00023	<0.00028	<0.00023	<0.00022	<0.00027	<0.00021	<0.00024	<0.00021	<0.00022	<0.00020
Hexanone, 2-	mg/kg	None	1,300	None	<0.0033	<0.0034	<0.0042	<0.0034	<0.0033	<0.0041	<0.0032	<0.0035	<0.0032	<0.0033	<0.0030
Isopropylbenzene	mg/kg	None	9,900	None	<0.00064	<0.00066	<0.00082	<0.00067	<0.00065	<0.00080	<0.00062	<0.00069	<0.00062	<0.00065	<0.00058
Isopropyltoluene, p-	mg/kg	None	None	None	<0.00074	<0.00077	<0.00095	<0.00078	<0.00076	<0.00093	<0.00072	<0.00080	<0.00072	<0.00076	<0.00068
Methyl tert-butyl ether	mg/kg	210	64,000	None	<0.00020	<0.00021	<0.00026	<0.00021	<0.00020	<0.00025	<0.00019	<0.00022	<0.00019	<0.00020	<0.00018
Methylene chloride	mg/kg	26	2,500	None	<0.0033	<0.0034	<0.0042	<0.0035	<0.0034	<0.0041	<0.0032	<0.0036	<0.0032	<0.0034	<0.0030
Methylpentanone, 4-, 2-	mg/kg	None	140,000	None	<0.0031	<0.0032	<0.0040	<0.0032	<0.0031	<0.0039	<0.0030	<0.0033	<0.0030	<0.0031	<0.0028
Naphthalene	mg/kg	6.5	570	None	<0.0055	<0.0057	<0.0071	<0.0058	<0.0056	<0.0069	<0.0054	<0.0060	<0.0054	<0.0056	<0.0050
Propylbenzene, n-	mg/kg	None	24,000	None	<0.00064	<0.00066	<0.00082	<0.00067	<0.00065	<0.00080	<0.00062	<0.00069	<0.00062	<0.00065	<0.00058
Styrene	mg/kg	None	32,000	None	<0.00074	<0.00077	<0.00095	<0.00078	<0.00076	<0.00093	<0.00072	<0.00080	<0.00072	<0.00076	<0.00068
Tetrachloroethane, 1,1,1,2-	mg/kg	8.8	2,700	None	<0.00031	<0.00032	<0.00040	<0.00032	<0.00031	<0.00039	<0.00030	<0.00033	<0.00030	<0.00031	<0.00028
Tetrachloroethane, 1,1,2,2-	mg/kg	2.7	4,300	None	<0.00058	<0.00060	<0.00074	<0.00061	<0.00059	<0.00072	<0.00056	<0.00062	<0.00056	<0.00059	<0.00053
Tetrachloroethene	mg/kg	2.7	390	None	<0.00024	<0.00025	<0.00030	<0.00025	<0.00024	<0.00030	<0.00023	<0.00026	<0.00023	<0.00024	<0.00022
Toluene	mg/kg	None	5,300	None	<0.00064	<0.00066	<0.00082	<0.00067	<0.00065	<0.00080	<0.00062	<0.00069	<0.00062	<0.00065	<0.00058
Trichlorobenzene, 1,2,3-	mg/kg	None	300	None	<0.0011	<0.0011	<0.0014	<0.0011	<0.0011	<0.0013	<0.0010	<0.0011	<0.0010	<0.0011	<0.00097
Trichlorobenzene, 1,2,4-	mg/kg	35	260	None	<0.00044	<0.00045	<0.00056	<0.00046	<0.00044	<0.00054	<0.00042	<0.00047	<0.00042	<0.00044	<0.00040
Trichloroethane, 1,1,1-	mg/kg	None	7,200	None	<0.00025	<0.00026	<0.00032	<0.00026	<0.00025	<0.00031	<0.00024	<0.00027	<0.00024	<0.00025	<0.00023
Trichloroethane, 1,1,2-	mg/kg	5.0	6.3	None	<0.00049	<0.00051	<0.00063	<0.00052	<0.00050	<0.00062	<0.00048	<0.00053	<0.00048	<0.00050	<0.00045
Trichloroethene	mg/kg	6.0	19	None	<0.00041	<0.00042	<0.00053	<0.00043	<0.00042	<0.00051	<0.00040	<0.00044	<0.00040	<0.00042	<0.00037
Trichlorofluoromethane	mg/kg	None	5,400	None	<0.00029	<0.00030	<0.00037	<0.00030	<0.00029	<0.00036	<0.00028	<0.00031	<0.00028	<0.00030	<0.00026
Trichloropropane, 1,2,3-	mg/kg	0.021	21	None	<0.00045	<0.00046	<0.00057	<0.00047	<0.00045	<0.00056	<0.00043	<0.00048	<0.00043	<0.00045	<0.00040
Trichlorotrifluoroethane, 1,1,2-, 1,2,2-	mg/kg	None	28,000	None	<0.00049	<0.00051	<0.00063	<0.00052	<0.00050	<0.00061	<0.00048	<0.00053	<0.00048	<0.00050	<0.00045
Trimethylbenzene, 1,2,4-	mg/kg	None	1,800	None	<0.00064	<0.00066	<0.00082	<0.00067	<0.00065	<0.00080	<0.00062	<0.00069	<0.00062	<0.00065	<0.00058
Trimethylbenzene, 1,3,5-	mg/kg	None	1,500	None	<0.00064	<0.00066	<0.00082	<0.00067	<0.00065	<0.00080	<0.00062	<0.00069	<0.00062	<0.00065	<0.00058
Vinyl acetate	mg/kg	None	3,800	None	<0.0042	<0.0043	<0.0053	<0.0044	<0.0042	<0.0052	<0.0040	<0.0045	<0.0040	<0.0042	<0.0038
Vinyl chloride	mg/kg	0.15	370	None	<0.00040	<0.00042	<0.00051	<0.00042	<0.00041	<0.00050	<0.00039	<0.00043	<0.00039	<0.00041	<0.00037
Xylene, m,p-	mg/kg	None	2,400	None	<0.00050	<0.00052	<0.00064	<0.00053	<0.00051	<0.00063	<0.00049	<0.00054	<0.00049	<0.00051	<0.00046
Xylene, o-	mg/kg	None	2,800	None	<0.00064	<0.00066	<0.00082	<0.00067	<0.00065	<0.00080	<0.00062	<0.00069	<0.00062	<0.00065	<0.00058
Semi-Volatile Organic Compounds (SVOCs)															
Acenaphthene	mg/kg	None	23,000	None	<0.057	<0.057	<0.063	<0.056	<0.058	<0.066	<0.058	<0.058	<0.058	<0.060	<0.058
Acenaphthylene	mg/kg	None	None	None	<0.041	<0.041	<0.045	<0.040	<0.042	<0.048	<0.042	<0.042	<0.042	<0.043	<0.042

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-01-1.5	PFP-01-4.0	PFP-02-1.5	PFP-02-4.0	PFP-03-1.5	PFP-03-4.0	PFP-04-1.5	PFP-04-4.0	PFP-05-1.5	PFP-05-4.0	PFP-06-1.5
Boring:					PFP-01	PFP-01	PFP-02	PFP-02	PFP-03	PFP-03	PFP-04	PFP-04	PFP-05	PFP-05	PFP-06
Depth (ft bgs):		Cancer	Noncancer		1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5
Date Collected:					2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-05	2020-11-05	2020-11-05
Aniline	mg/kg	260	3,700	None	<0.042	<0.043	<0.047	<0.042	<0.043	<0.049	<0.043	<0.043	<0.043	<0.045	<0.043
Anthracene	mg/kg	None	130,000	None	<0.054	<0.054	<0.059	<0.053	<0.055	<0.062	<0.054	<0.055	<0.054	<0.056	<0.055
Azobenzene	mg/kg	26	None	None	<0.12	<0.12	<0.13	<0.11	<0.12	<0.13	<0.12	<0.12	<0.12	<0.12	<0.12
Benz(a)anthracene	mg/kg	12	None	None	<0.048	<0.049	<0.054	<0.048	<0.049	<0.056	<0.049	<0.049	<0.049	<0.051	<0.049
Benzidine	mg/kg	0.0030	1,600	None	<1.5	<1.5	<1.7	<1.5	<1.5	<1.7	<1.5	<1.5	<1.5	<1.6	<1.5
Benzo(a)pyrene	mg/kg	1.3	130	None	<0.081	<0.082	<0.090	<0.079	<0.082	<0.094	<0.082	<0.083	<0.082	<0.085	<0.082
Benzo(b)fluoranthene	mg/kg	13	None	None	<0.085	<0.085	<0.093	<0.083	<0.086	<0.098	<0.085	<0.086	<0.086	<0.089	<0.086
Benzo(g,h,i)perylene	mg/kg	None	None	None	<0.088	<0.089	<0.098	<0.087	<0.090	<0.10	<0.089	<0.090	<0.090	<0.093	<0.090
Benzo(k)fluoranthene	mg/kg	130	None	None	<0.049	<0.049	<0.054	<0.048	<0.050	<0.057	<0.049	<0.050	<0.050	<0.051	<0.050
Benzoic acid	mg/kg	None	2.1E+06	None	<1.7	<1.7	<1.9	<1.6	<1.7	<1.9	<1.7	<1.7	<1.7	<1.8	<1.7
Benzyl alcohol	mg/kg	None	53,000	None	<0.090	<0.091	<0.10	<0.088	<0.092	<0.10	<0.091	<0.092	<0.091	<0.095	<0.092
Bis(2-chloroethoxy)methane	mg/kg	None	1,600	None	<0.066	<0.066	<0.073	<0.064	<0.067	<0.076	<0.066	<0.067	<0.067	<0.069	<0.067
Bis(2-chloroethyl)ether	mg/kg	0.47	None	None	<0.11	<0.11	<0.12	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11
Bis(2-chloroisopropyl)ether	mg/kg	None	16,000	None	<0.063	<0.064	<0.070	<0.062	<0.064	<0.073	<0.064	<0.065	<0.064	<0.067	<0.064
Bis(2-ethylhexyl)phthalate	mg/kg	110	11,000	None	<0.27	<0.27	<0.29	<0.26	<0.27	<0.31	<0.27	<0.27	<0.27	<0.28	<0.27
Bromophenyl phenyl ether, 4-	mg/kg	None	None	None	<0.062	<0.063	<0.069	<0.061	<0.063	<0.072	<0.063	<0.064	<0.063	<0.065	<0.063
Butyl benzyl phthlate	mg/kg	780	110,000	None	<0.23	<0.24	<0.26	<0.23	<0.24	<0.27	<0.24	<0.24	<0.24	<0.25	<0.24
Chloroaniline, 4-	mg/kg	7.4	2,100	None	<0.077	<0.077	<0.085	<0.075	<0.078	<0.089	<0.078	<0.078	<0.078	<0.081	<0.078
Chloromethylphenol, 4-, 3-	mg/kg	None	53,000	None	<0.089	<0.090	<0.099	<0.087	<0.091	<0.10	<0.090	<0.091	<0.090	<0.094	<0.091
Chloronaphthalene, beta-	mg/kg	None	27,000	None	<0.060	<0.061	<0.067	<0.059	<0.061	<0.070	<0.061	<0.061	<0.061	<0.063	<0.061
Chlorophenol, 2-	mg/kg	None	3,900	None	<0.10	<0.11	<0.12	<0.10	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11
Chlorophenyl phenyl ether, 4-	mg/kg	None	None	None	<0.075	<0.075	<0.082	<0.073	<0.076	<0.086	<0.075	<0.076	<0.076	<0.078	<0.076
Chrysene	mg/kg	1,300	None	None	<0.072	<0.072	<0.079	<0.070	<0.073	<0.083	<0.072	<0.073	<0.073	<0.075	<0.073
Dibenz(a,h)anthracene	mg/kg	0.31	None	None	<0.11	<0.11	<0.12	<0.11	<0.11	<0.13	<0.11	<0.11	<0.11	<0.12	<0.11
Dibenzofuran	mg/kg	None	650	None	<0.10	<0.10	<0.11	<0.098	<0.10	<0.12	<0.10	<0.10	<0.10	<0.10	<0.10
Dibutyl phthalate	mg/kg	None	53,000	None	<0.077	<0.078	<0.086	<0.076	<0.079	<0.089	<0.078	<0.079	<0.079	<0.081	<0.079
Dichlorobenzene, 1,2-	mg/kg	None	9,300	None	<0.079	<0.079	<0.087	<0.077	<0.080	<0.091	<0.079	<0.080	<0.080	<0.082	<0.080
Dichlorobenzene, 1,3-	mg/kg	None	None	None	<0.073	<0.074	<0.081	<0.072	<0.075	<0.085	<0.074	<0.075	<0.074	<0.077	<0.075
Dichlorobenzene, 1,4-	mg/kg	11	25,000	None	<0.075	<0.076	<0.083	<0.074	<0.076	<0.087	<0.076	<0.077	<0.076	<0.079	<0.076
Dichlorobenzidine, 3,3'-	mg/kg	1.2	None	None	<0.86	<0.87	<0.95	<0.85	<0.88	<1.0	<0.87	<0.88	<0.88	<0.91	<0.88
Dichlorophenol, 2,4-	mg/kg	None	1,600	None	<0.044	<0.045	<0.049	<0.043	<0.045	<0.051	<0.045	<0.045	<0.045	<0.046	<0.045

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-01-1.5	PFP-01-4.0	PFP-02-1.5	PFP-02-4.0	PFP-03-1.5	PFP-03-4.0	PFP-04-1.5	PFP-04-4.0	PFP-05-1.5	PFP-05-4.0	PFP-06-1.5
Boring:					PFP-01	PFP-01	PFP-02	PFP-02	PFP-03	PFP-03	PFP-04	PFP-04	PFP-05	PFP-05	PFP-06
Depth (ft bgs):		Cancer	Noncancer		1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5
Date Collected:					2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-05	2020-11-05	2020-11-05
Dichlorophenol, 2,6-	mg/kg	None	None	None	<0.069	<0.069	<0.076	<0.068	<0.070	<0.080	<0.070	<0.070	<0.070	<0.072	<0.070
Diethyl phthalate	mg/kg	None	420,000	None	<0.065	<0.065	<0.072	<0.064	<0.066	<0.075	<0.065	<0.066	<0.066	<0.068	<0.066
Dimethyl phthalate	mg/kg	None	None	None	<0.067	<0.067	<0.074	<0.065	<0.068	<0.077	<0.067	<0.068	<0.068	<0.070	<0.068
Dimethylphenol, 2,4-	mg/kg	None	11,000	None	<0.048	<0.048	<0.053	<0.047	<0.049	<0.056	<0.049	<0.049	<0.049	<0.051	<0.049
Dinitromethylphenol, 4,6-, 2-	mg/kg	None	42	None	<1.0	<1.0	<1.1	<1.0	<1.0	<1.2	<1.0	<1.1	<1.0	<1.1	<1.0
Dinitrophenol, 2,4-	mg/kg	None	1,100	None	<1.7	<1.7	<1.9	<1.7	<1.7	<2.0	<1.7	<1.7	<1.7	<1.8	<1.7
Dinitrotoluene, 2,4-	mg/kg	4.7	1,000	None	<0.048	<0.048	<0.053	<0.047	<0.049	<0.056	<0.049	<0.049	<0.049	<0.051	<0.049
Dinitrotoluene, 2,6-	mg/kg	0.99	160	None	<0.062	<0.063	<0.069	<0.061	<0.063	<0.072	<0.063	<0.064	<0.063	<0.065	<0.063
Di-n-octyl phthalate	mg/kg	None	5,300	None	<0.38	<0.38	<0.42	<0.37	<0.39	<0.44	<0.38	<0.39	<0.39	<0.40	<0.39
Fluoranthene	mg/kg	None	18,000	None	<0.062	<0.062	<0.068	<0.061	<0.063	<0.071	<0.062	<0.063	<0.063	<0.065	<0.063
Fluorene	mg/kg	None	17,000	None	<0.071	<0.071	<0.078	<0.069	<0.072	<0.081	<0.071	<0.072	<0.072	<0.074	<0.072
Hexachlorobenzene	mg/kg	0.86	470	None	<0.097	<0.098	<0.11	<0.096	<0.099	<0.11	<0.098	<0.099	<0.099	<0.10	<0.099
Hexachlorobutadiene	mg/kg	5.3	160	None	<0.053	<0.053	<0.059	<0.052	<0.054	<0.061	<0.054	<0.054	<0.054	<0.056	<0.054
Hexachlorocyclopentadiene	mg/kg	None	7.5	None	<0.40	<0.40	<0.44	<0.39	<0.41	<0.46	<0.40	<0.41	<0.40	<0.42	<0.41
Hexachloroethane	mg/kg	8.0	460	None	<0.11	<0.12	<0.13	<0.11	<0.12	<0.13	<0.12	<0.12	<0.12	<0.12	<0.12
Indeno(1,2,3-c,d)pyrene	mg/kg	13	None	None	<0.096	<0.096	<0.11	<0.094	<0.097	<0.11	<0.097	<0.098	<0.097	<0.10	<0.098
Isophorone	mg/kg	1,600	110,000	None	<0.073	<0.073	<0.080	<0.071	<0.074	<0.084	<0.073	<0.074	<0.074	<0.076	<0.074
Methylnaphthalene, 1-	mg/kg	30	22,000	None	<0.038	<0.039	<0.043	<0.038	<0.039	<0.044	<0.039	<0.039	<0.039	<0.040	<0.039
Methylnaphthalene, 2-	mg/kg	None	1,300	None	<0.060	<0.061	<0.067	<0.059	<0.061	<0.070	<0.061	<0.062	<0.061	<0.064	<0.062
Methylphenol, 2-	mg/kg	None	26,000	None	<0.10	<0.10	<0.11	<0.098	<0.10	<0.12	<0.10	<0.10	<0.10	<0.10	<0.10
Methylphenol, 3,4-	mg/kg	None	None	None	<0.66	<0.67	<0.73	<0.65	<0.67	<0.77	<0.67	<0.68	<0.67	<0.70	<0.68
Naphthalene	mg/kg	6.5	570	None	<0.061	<0.061	<0.067	<0.060	<0.062	<0.070	0.14 J	0.91	<0.062	0.29 J	0.60
Nitroaniline, 2-	mg/kg	None	5,200	None	<0.069	<0.069	<0.076	<0.068	<0.070	<0.080	<0.070	<0.070	<0.070	<0.072	<0.070
Nitroaniline, 3-	mg/kg	None	None	None	<0.050	<0.050	<0.055	<0.049	<0.051	<0.058	<0.050	<0.051	<0.051	<0.052	<0.051
Nitroaniline, 4-	mg/kg	74	2,100	None	<0.047	<0.047	<0.052	<0.046	<0.048	<0.054	<0.047	<0.048	<0.048	<0.049	<0.048
Nitrobenzene	mg/kg	22	1,300	None	<0.046	<0.047	<0.051	<0.045	<0.047	<0.053	<0.047	<0.047	<0.047	<0.049	<0.047
Nitrophenol, 2-	mg/kg	None	None	None	<0.050	<0.050	<0.055	<0.049	<0.051	<0.058	<0.050	<0.051	<0.051	<0.052	<0.051
Nitrophenol, 4-	mg/kg	None	None	None	<0.065	<0.065	<0.072	<0.064	<0.066	<0.075	<0.066	<0.066	<0.066	<0.068	<0.066
Nitrosodimethylamine, N-	mg/kg	0.034	5.7	None	<0.081	<0.082	<0.090	<0.080	<0.083	<0.094	<0.082	<0.083	<0.082	<0.085	<0.083
Nitroso-di-N-propylamine, N-	mg/kg	0.21	None	None	<0.071	<0.071	<0.078	<0.069	<0.072	<0.082	<0.071	<0.072	<0.072	<0.074	<0.072
Nitrosodiphenylamine, N-	mg/kg	300	None	None	<0.041	<0.041	<0.045	<0.040	<0.042	<0.047	<0.041	<0.042	<0.042	<0.043	<0.042

Table 23. PathFoward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID: / Boring: / Depth (ft bgs): / Date Collected:	Units	Commercial/Industrial RBSLs		Background	PFP-01-1.5	PFP-01-4.0	PFP-02-1.5	PFP-02-4.0	PFP-03-1.5	PFP-03-4.0	PFP-04-1.5	PFP-04-4.0	PFP-05-1.5	PFP-05-4.0	PFP-06-1.5
					PFP-01	PFP-01	PFP-02	PFP-02	PFP-03	PFP-03	PFP-04	PFP-04	PFP-05	PFP-05	PFP-06
		Cancer	Noncancer		1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5
					2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-05	2020-11-05	2020-11-05
Pentachlorophenol	mg/kg	2.0	1,500	None	<1.1	<1.1	<1.2	<1.0	<1.1	<1.2	<1.1	<1.1	<1.1	<1.1	<1.1
Phenanthrene	mg/kg	None	None	None	<0.065	<0.065	<0.071	<0.063	<0.066	<0.075	<0.065	<0.066	<0.065	<0.068	<0.066
Phenol	mg/kg	None	160,000	None	<0.10 U *	<0.10 U *	<0.11 U *	<0.099 U *	<0.10 U *	<0.12 U *	<0.10	<0.10	<0.10	<0.11	<0.10
Pyrene	mg/kg	None	13,000	None	<0.080	<0.080	<0.088	<0.078	<0.081	<0.092	<0.080	<0.081	<0.081	<0.084	<0.081
Pyridine	mg/kg	None	530	None	<0.087	<0.088	<0.096	<0.085	<0.089	<0.10	<0.088	<0.089	<0.088	<0.092	<0.089
Trichlorobenzene, 1,2,4-	mg/kg	35	260	None	<0.042	<0.042	<0.046	<0.041	<0.042	<0.048	<0.042	<0.042	<0.042	<0.044	<0.042
Trichlorophenol, 2,4,5-	mg/kg	None	53,000	None	<0.075	<0.075	<0.082	<0.073	<0.076	<0.086	<0.075	<0.076	<0.076	<0.078	<0.076
Trichlorophenol, 2,4,6-	mg/kg	21	530	None	<0.083	<0.084	<0.092	<0.081	<0.084	<0.096	<0.084	<0.085	<0.084	<0.087	<0.085
Low-Level Semivolatile Organic Compounds (SVOCs)															
Acenaphthene	mg/kg	None	23,000	None	<0.014	<0.014	0.016 J	<0.014	<0.014	<0.016	<0.014	<0.014	<0.014	<0.014	<0.014
Acenaphthylene	mg/kg	None	None	None	<0.010	<0.010	0.012 J	<0.010	<0.010	<0.012	<0.010	<0.010	<0.010	<0.010	<0.010
Anthracene	mg/kg	None	130,000	None	<0.0092	<0.0095	<0.010	<0.0092	<0.0095	<0.011	<0.0096	<0.0094	<0.0095	<0.0097	<0.0095
Benz(a)anthracene	mg/kg	12	None	None	<0.0083	<0.0086	<0.0093	<0.0083	<0.0086	<0.0097	<0.0087	<0.0085	<0.0086	<0.0087	<0.0086
Benzo(a)pyrene	mg/kg	1.3	130	None	<0.0085	<0.0087	<0.0095	<0.0084	<0.0088	<0.0099	<0.0088	<0.0086	<0.0087	<0.0089	<0.0087
Benzo(b)fluoranthene	mg/kg	13	None	None	<0.016	<0.016	<0.017	<0.015	<0.016	<0.018	<0.016	<0.016	<0.016	<0.016	<0.016
Benzo(g,h,i)perylene	mg/kg	None	None	None	<0.011	<0.011	<0.012	<0.011	<0.011	<0.013	<0.011	<0.011	<0.011	<0.012	<0.011
Benzo(k)fluoranthene	mg/kg	130	None	None	<0.0078	<0.0080	<0.0088	<0.0078	<0.0081	<0.0091	<0.0081	<0.0079	<0.0080	<0.0082	<0.0080
Chrysene	mg/kg	1,300	None	None	<0.0068	<0.0070	<0.0076	<0.0067	<0.0070	<0.0079	<0.0070	<0.0069	<0.0069	<0.0071	<0.0069
Dibenz(a,h)anthracene	mg/kg	0.31	None	None	<0.011	<0.012	<0.013	<0.011	<0.012	<0.013	<0.012	<0.012	<0.012	<0.012	<0.012
Fluoranthene	mg/kg	None	18,000	None	<0.0084	<0.0086	<0.0094	<0.0083	<0.0086	<0.0097	<0.0087	<0.0085	<0.0086	<0.0087	<0.0086
Fluorene	mg/kg	None	17,000	None	<0.010	<0.010	<0.011	<0.010	<0.010	<0.012	<0.010	<0.010	<0.010	<0.011	<0.010
Indeno(1,2,3-c,d)pyrene	mg/kg	13	None	None	<0.013	<0.013	<0.014	<0.012	<0.013	<0.015	<0.013	<0.013	<0.013	<0.013	<0.013
Methylnaphthalene, 1-	mg/kg	30	22,000	None	<0.011	<0.012	<0.013	<0.011	<0.012	<0.013	<0.012	<0.011	<0.012	<0.012	0.014 J
Methylnaphthalene, 2-	mg/kg	None	1,300	None	<0.011	<0.011	<0.012	<0.011	<0.011	<0.013	<0.011	<0.011	<0.011	0.012 J	0.017 J
Naphthalene	mg/kg	6.5	570	None	<0.0093	<0.0096	0.078	0.032	0.038	<0.011	0.24	0.11	0.17	0.35	0.46
Phenanthrene	mg/kg	None	None	None	<0.0072	<0.0074	0.012 J	<0.0072	<0.0075	<0.0084	<0.0075	<0.0074	<0.0074	<0.0076	<0.0074
Pyrene	mg/kg	None	13,000	None	<0.0090	<0.0093	<0.010	<0.0090	<0.0093	<0.010	<0.0094	<0.0092	<0.0093	<0.0094	<0.0092
Polychlorinated Biphenyls (PCBs)															
Aroclor-1016	mg/kg	17	29	None	<0.041	<0.042	<0.046	<0.041	<0.042	<0.048	<0.042	<0.042	<0.042	<0.043	<0.042
Aroclor-1221	mg/kg	0.53	None	None	<0.041	<0.042	<0.046	<0.041	<0.042	<0.048	<0.042	<0.042	<0.042	<0.043	<0.042
Aroclor-1232	mg/kg	0.49	None	None	<0.041	<0.042	<0.046	<0.041	<0.042	<0.048	<0.042	<0.042	<0.042	<0.043	<0.042

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-01-1.5	PFP-01-4.0	PFP-02-1.5	PFP-02-4.0	PFP-03-1.5	PFP-03-4.0	PFP-04-1.5	PFP-04-4.0	PFP-05-1.5	PFP-05-4.0	PFP-06-1.5
Boring:					PFP-01	PFP-01	PFP-02	PFP-02	PFP-03	PFP-03	PFP-04	PFP-04	PFP-05	PFP-05	PFP-06
Depth (ft bgs):		Cancer	Noncancer		1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5
Date Collected:					2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-05	2020-11-05	2020-11-05
Aroclor-1242	mg/kg	0.58	None	None	<0.041	<0.042	<0.046	<0.041	<0.042	<0.048	<0.042	<0.042	<0.042	<0.043	<0.042
Aroclor-1248	mg/kg	0.58	None	None	<0.041	<0.042	<0.046	<0.041	<0.042	<0.048	<0.042	<0.042	<0.042	<0.043	<0.042
Aroclor-1254	mg/kg	0.59	8.4	None	<0.027	<0.027	<0.030	<0.027	<0.027	<0.031	<0.027	<0.028	<0.027	<0.028	<0.027
Aroclor-1260	mg/kg	0.60	None	None	<0.027	<0.027	<0.030	<0.027	<0.027	<0.031	<0.027	<0.028	<0.027	<0.028	<0.027
Aroclor-1262	mg/kg	None	None	None	<0.027	<0.027	<0.030	<0.027	<0.027	<0.031	<0.027	<0.028	<0.027	<0.028	<0.027
Aroclor-1268	mg/kg	None	None	None	<0.027	<0.027	<0.030	<0.027	<0.027	<0.031	<0.027	<0.028	<0.027	<0.028	<0.027
Metals															
Antimony	mg/kg	None	470	1.95	<0.16 U F1	<0.16	<0.18	<0.16	<0.16	<0.18	1.3 F1	0.40 J	1.6	0.20 J	<0.16
Arsenic	mg/kg	0.36	4.2	12	1.2	3.5	5.2	1.8	2.0	2.3	2.4	1.7	1.6	2.9	1.6
Barium	mg/kg	None	220,000	1,400	129	141	40	73	121	112	112	147	113	134	124
Beryllium	mg/kg	6,900	230	2.7	0.55	0.80	0.41	0.40	0.62	0.50	0.57	0.59	0.59	0.62	0.58
Cadmium	mg/kg	9,300	980	1.7	0.30 J	0.29 J	0.24 J	0.24 J	0.31 J	0.39 J	0.43 J	0.31 J	0.38 J	0.64	0.43 J
Chromium	mg/kg	None	None	1,579	12	14	15	9.2	12	13	11	8.4	9.1	18	10
Cobalt	mg/kg	1,900	350	46.9	12	10	7.9	7.4	8.9	8.2	8.1	7.9	7.2	9.3	7.7
Copper	mg/kg	None	47,000	96.4	7.0	5.9	13	7.3	6.8	7.6	7.2	4.8	4.2	13	4.4
Lead	mg/kg	None	320	97.1	0.91	<0.14 U L	3.3	0.69	22	1.5	2.5	<0.15	0.15 J	2.3	0.32 J
Mercury	mg/kg	None	4.4	0.90	0.026 J	0.031 J	0.024 J	0.020 J	0.020 J	0.031 J	<0.014	<0.015	<0.014	<0.015	<0.015
Molybdenum	mg/kg	None	5,800	9.6	<0.14	<0.14 U L	<0.16 U L	<0.14 U L	<0.14 U L	<0.16 U L	<0.15	<0.15	<0.15 U L	<0.14 U L	<0.15
Nickel	mg/kg	64,000	11,000	509	7.3	8.2	9.5	6.6	7.4	8.1	7.1	6.3	5.8	11	6.8
Selenium	mg/kg	None	5,800	0.43	<0.32	0.67 J	0.44 J	<0.32	<0.32	<0.37	<0.33	<0.33	<0.33 U L	<0.33	<0.33
Silver	mg/kg	None	5,800	8.3	0.13 J	<0.090	0.16 J	<0.091	<0.092	<0.11	0.12 J	<0.095	<0.094	<0.093	<0.095
Thallium	mg/kg	None	12	1.1	0.78 J	0.19 J	<0.18	<0.16	0.69 J	0.45 J	<0.17 U L	<0.17	<0.17	0.45 J B	<0.17
Vanadium	mg/kg	None	5,800	288	36	45	22	25	37	33	30	29	30	40	32
Zinc	mg/kg	None	350,000	236	38	34	32	29	38	38	56 F1	38	38	55	31
Other															
pH	SU	None	None	None	7.1	6.8	8.4	7.7	8.2	8.1	7.8	7.8	8.1	8.1	7.9
Temperature	°C	None	None	None	20	20	20	20	20	20	20	20	20	20	20

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Boring:					PFP-06	PFP-07	PFP-07	PFP-08	PFP-08	PFP-09	PFP-09	PFP-10	PFP-10	PFP-11	PFP-11
Depth (ft bgs):		Cancer	Noncancer		4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0
Date Collected:					2020-11-05	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05
Purgeable Total Petroleum Hydrocarbons (TPH)															
TPH-g	mg/kg	None	None	None	<0.051	<0.055	<0.057	<0.053	<0.053	<0.058	<0.064	<0.051	<0.053	<0.049	<0.049
Extractable Total Petroleum Hydrocarbons (TPH)															
C11-C12	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C13-C14	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C15-C16	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C17-C18	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C19-C20	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C21-C22	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C23-C24	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C25-C28	mg/kg	None	None	None	<3.9	5.9	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C29-C32	mg/kg	None	None	None	<3.9	5.0 J	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C33-C36	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C37-C40	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C41-C44	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C6 as C6	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C6-C44	mg/kg	None	None	None	6.4	15	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	15
C7 as C7	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C8 as C8	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
C9-C10	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	<3.9
TPH-d	mg/kg	None	None	None	<3.9	<4.4	<4.1	<4.0	<3.9	<4.5	<4.5	<4.3	<4.0	<3.9	6.7
TPH-jf	mg/kg	None	None	None	<3.2	<3.5	<3.3	<3.2	<3.1	<3.6	<3.6	<3.4	<3.2	<3.1	<3.1
TPH-mo	mg/kg	None	None	None	<12	21 J	<12	<12	<12	<13	<13	<13	<12	<12	18 J
Volatile Organic Compounds (VOCs)															
Acetone	mg/kg	None	670,000	None	<0.0098	0.013 J	0.015 J	<0.010	0.012 J	0.016 J	0.019 J	<0.0097	<0.010	<0.0094	<0.0095
Benzene	mg/kg	1.4	46	None	<0.00026	<0.00028	0.00034 J	0.00059 J	0.00032 J	0.00059 J	0.00081 J	0.00041 J	0.00028 J	<0.00025	<0.00025
Bromobenzene	mg/kg	None	1,800	None	<0.00021	<0.00022	<0.00023	<0.00022	<0.00021	<0.00024	<0.00026	<0.00021	<0.00022	<0.00020	<0.00020
Bromochloromethane	mg/kg	None	630	None	<0.00044	<0.00048	<0.00049	<0.00046	<0.00046	<0.00050	<0.00055	<0.00044	<0.00046	<0.00042	<0.00043
Bromodichloromethane	mg/kg	1.3	1,300	None	<0.00016	<0.00017	<0.00018	<0.00016	<0.00016	<0.00018	<0.00020	<0.00016	<0.00017	<0.00015	<0.00015
Bromoform	mg/kg	86	3,000	None	<0.0013	<0.0014	<0.0015	<0.0014	<0.0014	<0.0015	<0.0016	<0.0013	<0.0014	<0.0013	<0.0013
Bromomethane	mg/kg	None	30	None	<0.0065	<0.0071	<0.0073	<0.0068	<0.0068	<0.0074	<0.0082	<0.0065	<0.0068	<0.0063	<0.0063

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Analyte	Sample ID: / Boring: / Depth (ft bgs): / Date Collected:	Units	Commercial/Industrial RBSLs		Background	PFP-06-4.0 PFP-06 4.0 2020-11-05	PFP-07-1.5 PFP-07 1.5 2020-11-04	PFP-07-4.0 PFP-07 4.0 2020-11-04	PFP-08-1.5 PFP-08 1.5 2020-11-05	PFP-08-4.0 PFP-08 4.0 2020-11-05	PFP-09-1.5 PFP-09 1.5 2020-11-04	PFP-09-4.0 PFP-09 4.0 2020-11-04	PFP-10-1.5 PFP-10 1.5 2020-11-04	PFP-10-4.0 PFP-10 4.0 2020-11-04	PFP-11-1.5 PFP-11 1.5 2020-11-05	PFP-11-4.0 PFP-11 4.0 2020-11-05
			Cancer	Noncancer												
Butanone, 2-		mg/kg	None	190,000	None	<0.0045	<0.0048	<0.0050	<0.0047	<0.0046	<0.0051	<0.0056	<0.0045	<0.0047	<0.0043	<0.0043
Butylbenzene, n-		mg/kg	None	18,000	None	<0.00021	<0.00023	<0.00023	<0.00022	<0.00022	<0.00024	<0.00026	<0.00021	<0.00022	<0.00020	<0.00020
Butylbenzene, sec-		mg/kg	None	12,000	None	<0.00060	<0.00064	<0.00066	<0.00062	<0.00062	<0.00068	<0.00075	<0.00059	<0.00062	<0.00057	<0.00058
Butylbenzene, tert-		mg/kg	None	12,000	None	<0.00025	<0.00027	<0.00028	<0.00026	<0.00026	<0.00029	<0.00032	<0.00025	<0.00026	<0.00024	<0.00024
Carbon disulfide		mg/kg	None	3,500	None	<0.00040	<0.00043	<0.00044	<0.00041	<0.00041	<0.00045	<0.00050	<0.00040	<0.00042	<0.00038	<0.00038
Carbon tetrachloride		mg/kg	2.9	250	None	<0.00030	<0.00032	<0.00033	<0.00031	<0.00031	<0.00034	<0.00037	<0.00030	<0.00031	<0.00029	<0.00029
Chlorobenzene		mg/kg	None	1,300	None	<0.00027	<0.00029	<0.00030	<0.00028	<0.00028	<0.00030	<0.00033	<0.00027	<0.00028	<0.00026	<0.00026
Chloroethane		mg/kg	None	57,000	None	<0.0015	<0.0016	<0.0017	<0.0016	<0.0015	<0.0017	<0.0019	<0.0015	<0.0016	<0.0014	<0.0014
Chloroform		mg/kg	1.4	1,000	None	<0.00059	<0.00063	<0.00065	<0.00061	<0.00061	<0.00066	<0.00073	<0.00058	<0.00061	<0.00056	<0.00057
Chloromethane		mg/kg	None	460	None	<0.0015	<0.0017	<0.0017	<0.0016	<0.0016	<0.0017	<0.0019	<0.0015	<0.0016	<0.0015	<0.0015
Chlorotoluene, 2-		mg/kg	None	2,500	None	<0.00025	<0.00027	<0.00028	<0.00026	<0.00026	<0.00028	<0.00031	<0.00025	<0.00026	<0.00024	<0.00024
Chlorotoluene, 4-		mg/kg	None	2,300	None	<0.00024	<0.00026	<0.00027	<0.00025	<0.00025	<0.00027	<0.00030	<0.00024	<0.00025	<0.00023	<0.00023
Dibromochloromethane		mg/kg	4.1	2,500	None	<0.00027	<0.00029	<0.00030	<0.00028	<0.00028	<0.00031	<0.00034	<0.00027	<0.00028	<0.00026	<0.00026
Dibromochloropropane, 1,2-, 3-		mg/kg	0.057	25	None	<0.0067	<0.0073	<0.0075	<0.0070	<0.0070	<0.0076	<0.0084	<0.0067	<0.0070	<0.0065	<0.0065
Dibromoethane, 1,2-		mg/kg	0.16	30	None	<0.00020	<0.00022	<0.00023	<0.00021	<0.00021	<0.00023	<0.00026	<0.00020	<0.00021	<0.00020	<0.00020
Dibromomethane		mg/kg	None	99	None	<0.00030	<0.00033	<0.00034	<0.00032	<0.00031	<0.00034	<0.00038	<0.00030	<0.00032	<0.00029	<0.00029
Dichlorobenzene, 1,2-		mg/kg	None	9,300	None	<0.00025	<0.00027	<0.00028	<0.00026	<0.00026	<0.00028	<0.00031	<0.00025	<0.00026	<0.00024	<0.00024
Dichlorobenzene, 1,3-		mg/kg	None	None	None	<0.00025	<0.00027	<0.00028	<0.00026	<0.00026	<0.00028	<0.00031	<0.00025	<0.00026	<0.00024	<0.00024
Dichlorobenzene, 1,4-		mg/kg	11	25,000	None	<0.00030	<0.00033	<0.00034	<0.00032	<0.00032	<0.00035	<0.00038	<0.00030	<0.00032	<0.00029	<0.00030
Dichlorodifluoromethane		mg/kg	None	370	None	<0.00045	<0.00049	<0.00050	<0.00047	<0.00047	<0.00051	<0.00056	<0.00045	<0.00047	<0.00043	<0.00044
Dichloroethane, 1,1-		mg/kg	16	7,100	None	<0.00028	<0.00030	<0.00031	<0.00029	<0.00029	<0.00032	<0.00035	<0.00028	<0.00029	<0.00027	<0.00027
Dichloroethane, 1,2-		mg/kg	2.0	140	None	<0.00027	<0.00030	<0.00031	<0.00029	<0.00028	<0.00031	<0.00034	<0.00027	<0.00029	<0.00026	<0.00027
Dichloroethene, 1,1-		mg/kg	None	350	None	<0.00026	<0.00028	<0.00029	<0.00027	<0.00027	<0.00030	<0.00033	<0.00026	<0.00028	<0.00025	<0.00026
Dichloroethene, 1,2-, cis-		mg/kg	None	84	None	<0.00034	<0.00036	<0.00037	<0.00035	<0.00035	<0.00038	<0.00042	<0.00033	<0.00035	<0.00032	<0.00032
Dichloroethene, 1,2-, trans-		mg/kg	None	600	None	<0.00030	<0.00032	<0.00033	<0.00031	<0.00031	<0.00034	<0.00037	<0.00030	<0.00031	<0.00029	<0.00029
Dichloropropane, 1,2-		mg/kg	11	66	None	<0.00027	<0.00030	<0.00031	<0.00029	<0.00028	<0.00031	<0.00034	<0.00027	<0.00029	<0.00026	<0.00027
Dichloropropane, 1,3-		mg/kg	None	2,200	None	<0.00029	<0.00032	<0.00033	<0.00031	<0.00030	<0.00033	<0.00037	<0.00029	<0.00031	<0.00028	<0.00028
Dichloropropane, 2,2-		mg/kg	None	None	None	<0.00027	<0.00029	<0.00030	<0.00028	<0.00028	<0.00031	<0.00034	<0.00027	<0.00028	<0.00026	<0.00026
Dichloropropene, 1,1-		mg/kg	None	None	None	<0.00039	<0.00042	<0.00043	<0.00040	<0.00040	<0.00044	<0.00048	<0.00038	<0.00040	<0.00037	<0.00037
Dichloropropene, 1,3-, cis-		mg/kg	None	None	None	<0.00035	<0.00037	<0.00039	<0.00036	<0.00036	<0.00039	<0.00043	<0.00035	<0.00036	<0.00033	<0.00034
Dichloropropene, 1,3-, trans-		mg/kg	None	None	None	<0.00028	<0.00030	<0.00031	<0.00029	<0.00029	<0.00032	<0.00035	<0.00028	<0.00029	<0.00027	<0.00027

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Analyte	Units	Commercial/Industrial RBSLs		Background	PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Sample ID:					PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Boring:					PFP-06	PFP-07	PFP-07	PFP-08	PFP-08	PFP-09	PFP-09	PFP-10	PFP-10	PFP-11	PFP-11
Depth (ft bgs):		Cancer	Noncancer		4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0
Date Collected:					2020-11-05	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05
Ethylbenzene	mg/kg	25	20,000	None	<0.00021	<0.00022	<0.00023	<0.00021	<0.00021	<0.00023	<0.00026	<0.00020	<0.00021	<0.00020	<0.00020
Hexanone, 2-	mg/kg	None	1,300	None	<0.0031	<0.0033	<0.0034	<0.0032	<0.0032	<0.0035	<0.0038	<0.0030	<0.0032	<0.0029	<0.0030
Isopropylbenzene	mg/kg	None	9,900	None	<0.00060	<0.00064	<0.00066	<0.00062	<0.00062	<0.00068	<0.00075	<0.00059	<0.00062	<0.00057	<0.00058
Isopropyltoluene, p-	mg/kg	None	None	None	<0.00070	<0.00075	<0.00078	<0.00072	<0.00072	<0.00079	<0.00087	<0.00069	<0.00073	<0.00067	<0.00067
Methyl tert-butyl ether	mg/kg	210	64,000	None	<0.00019	<0.00020	<0.00021	<0.00019	<0.00019	<0.00021	<0.00023	<0.00019	<0.00020	<0.00018	<0.00018
Methylene chloride	mg/kg	26	2,500	None	<0.0031	<0.0034	<0.0035	<0.0032	<0.0032	<0.0035	<0.0039	<0.0031	<0.0032	<0.0030	<0.0030
Methylpentanone, 4-, 2-	mg/kg	None	140,000	None	<0.0029	<0.0031	<0.0032	<0.0030	<0.0030	<0.0033	<0.0036	<0.0029	<0.0030	<0.0028	<0.0028
Naphthalene	mg/kg	6.5	570	None	<0.0052	<0.0056	<0.0058	<0.0054	<0.0054	<0.0059	<0.0065	<0.0052	<0.0054	<0.0050	<0.0050
Propylbenzene, n-	mg/kg	None	24,000	None	<0.00060	<0.00064	<0.00066	<0.00062	<0.00062	<0.00068	<0.00075	<0.00059	<0.00062	<0.00057	<0.00058
Styrene	mg/kg	None	32,000	None	<0.00070	<0.00075	<0.00078	<0.00072	<0.00072	<0.00079	<0.00087	<0.00069	<0.00073	<0.00067	<0.00067
Tetrachloroethane, 1,1,1,2-	mg/kg	8.8	2,700	None	<0.00029	<0.00031	<0.00032	<0.00030	<0.00030	<0.00033	<0.00036	<0.00029	<0.00030	<0.00028	<0.00028
Tetrachloroethane, 1,1,2,2-	mg/kg	2.7	4,300	None	<0.00054	<0.00058	<0.00060	<0.00056	<0.00056	<0.00061	<0.00068	<0.00054	<0.00057	<0.00052	<0.00052
Tetrachloroethene	mg/kg	2.7	390	None	<0.00022	<0.00024	<0.00025	<0.00023	<0.00023	<0.00025	<0.00028	<0.00022	<0.00023	<0.00021	<0.00021
Toluene	mg/kg	None	5,300	None	<0.00060	<0.00064	<0.00066	<0.00062	<0.00062	<0.00068	<0.00075	<0.00059	<0.00062	<0.00057	<0.00058
Trichlorobenzene, 1,2,3-	mg/kg	None	300	None	<0.00099	<0.0011	<0.0011	<0.0010	<0.0010	<0.0011	<0.0012	<0.00099	<0.0010	<0.00095	<0.00096
Trichlorobenzene, 1,2,4-	mg/kg	35	260	None	<0.00041	<0.00044	<0.00045	<0.00043	<0.00042	<0.00046	<0.00051	<0.00041	<0.00043	<0.00039	<0.00039
Trichloroethane, 1,1,1-	mg/kg	None	7,200	None	<0.00023	<0.00025	<0.00026	<0.00024	<0.00024	<0.00026	<0.00029	<0.00023	<0.00024	<0.00022	<0.00022
Trichloroethane, 1,1,2-	mg/kg	5.0	6.3	None	<0.00046	<0.00050	<0.00051	<0.00048	<0.00048	<0.00052	<0.00058	<0.00046	<0.00048	<0.00044	<0.00045
Trichloroethene	mg/kg	6.0	19	None	<0.00038	<0.00041	<0.00043	<0.00040	<0.00040	<0.00044	<0.00048	<0.00038	<0.00040	<0.00037	<0.00037
Trichlorofluoromethane	mg/kg	None	5,400	None	<0.00027	<0.00029	<0.00030	<0.00028	<0.00028	<0.00031	<0.00034	<0.00027	<0.00028	<0.00026	<0.00026
Trichloropropane, 1,2,3-	mg/kg	0.021	21	None	<0.00042	<0.00045	<0.00046	<0.00043	<0.00043	<0.00047	<0.00052	<0.00042	<0.00044	<0.00040	<0.00040
Trichlorotrifluoroethane, 1,1,2-, 1,2,2-	mg/kg	None	28,000	None	<0.00046	<0.00050	<0.00051	<0.00048	<0.00048	<0.00052	<0.00058	<0.00046	<0.00048	<0.00044	<0.00044
Trimethylbenzene, 1,2,4-	mg/kg	None	1,800	None	<0.00060	<0.00064	<0.00066	<0.00062	<0.00062	<0.00068	<0.00075	<0.00059	<0.00062	<0.00057	<0.00058
Trimethylbenzene, 1,3,5-	mg/kg	None	1,500	None	<0.00060	<0.00064	<0.00066	<0.00062	<0.00062	<0.00068	<0.00075	<0.00059	<0.00062	<0.00057	<0.00058
Vinyl acetate	mg/kg	None	3,800	None	<0.0039	<0.0042	<0.0043	<0.0041	<0.0040	<0.0044	<0.0049	<0.0039	<0.0041	<0.0037	<0.0038
Vinyl chloride	mg/kg	0.15	370	None	<0.00038	<0.00041	<0.00042	<0.00039	<0.00039	<0.00043	<0.00047	<0.00037	<0.00039	<0.00036	<0.00036
Xylene, m,p-	mg/kg	None	2,400	None	<0.00047	<0.00051	<0.00052	<0.00049	<0.00049	<0.00053	<0.00059	<0.00047	<0.00049	<0.00045	<0.00046
Xylene, o-	mg/kg	None	2,800	None	<0.00060	<0.00064	<0.00066	<0.00062	<0.00062	<0.00068	<0.00075	<0.00059	<0.00062	<0.00057	<0.00058
Semi-Volatile Organic Compounds (SVOCs)															
Acenaphthene	mg/kg	None	23,000	None	<0.058	<0.058	<0.059	<0.058	<0.057	<0.062	<0.063	<0.057	<0.058	<0.057	<0.057
Acenaphthylene	mg/kg	None	None	None	<0.042	<0.042	<0.042	<0.042	<0.041	<0.044	<0.045	<0.041	<0.042	<0.041	<0.041

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Boring:					PFP-06	PFP-07	PFP-07	PFP-08	PFP-08	PFP-09	PFP-09	PFP-10	PFP-10	PFP-11	PFP-11
Depth (ft bgs):		Cancer	Noncancer		4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0
Date Collected:					2020-11-05	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05
Aniline	mg/kg	260	3,700	None	<0.043	<0.043	<0.044	<0.043	<0.043	<0.046	<0.047	<0.042	<0.043	<0.042	<0.043
Anthracene	mg/kg	None	130,000	None	<0.054	<0.055	<0.055	<0.054	<0.054	<0.058	<0.059	<0.053	<0.055	<0.054	<0.054
Azobenzene	mg/kg	26	None	None	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.13	<0.11	<0.12	<0.11	<0.12
Benz(a)anthracene	mg/kg	12	None	None	<0.049	<0.050	<0.050	<0.049	<0.049	<0.052	<0.053	0.25 J	<0.049	<0.048	<0.049
Benzidine	mg/kg	0.0030	1,600	None	<1.5	<1.5	<1.6	<1.5	<1.5	<1.6	<1.7	<1.5	<1.5	<1.5	<1.5
Benzo(a)pyrene	mg/kg	1.3	130	None	<0.082	<0.083	<0.084	<0.082	<0.081	<0.087	<0.089	0.20 J	<0.083	<0.081	<0.081
Benzo(b)fluoranthene	mg/kg	13	None	None	<0.085	<0.086	<0.087	<0.086	<0.085	<0.091	<0.093	0.19 J	<0.086	<0.084	<0.085
Benzo(g,h,i)perylene	mg/kg	None	None	None	<0.089	<0.090	<0.091	<0.090	<0.089	<0.095	<0.098	0.13 J	<0.090	<0.088	<0.089
Benzo(k)fluoranthene	mg/kg	130	None	None	<0.049	<0.050	<0.051	<0.050	<0.049	<0.053	<0.054	0.21 J	<0.050	<0.049	<0.049
Benzoic acid	mg/kg	None	2.1E+06	None	<1.7	<1.7	<1.7	<1.7	<1.7	<1.8	<1.9	<1.7	<1.7	<1.7	<1.7
Benzyl alcohol	mg/kg	None	53,000	None	<0.091	<0.092	<0.093	<0.091	<0.090	<0.097	<0.10	<0.090	<0.092	<0.090	<0.091
Bis(2-chloroethoxy)methane	mg/kg	None	1,600	None	<0.066	<0.067	<0.068	<0.067	<0.066	<0.071	<0.073	<0.065	<0.067	<0.066	<0.066
Bis(2-chloroethyl)ether	mg/kg	0.47	None	None	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	<0.12	<0.11	<0.11	<0.11	<0.11
Bis(2-chloroisopropyl)ether	mg/kg	None	16,000	None	<0.064	<0.065	<0.065	<0.064	<0.064	<0.068	<0.070	<0.063	<0.065	<0.063	<0.064
Bis(2-ethylhexyl)phthalate	mg/kg	110	11,000	None	<0.27	<0.27	<0.27	<0.27	<0.27	<0.29	<0.29	<0.26	<0.27	<0.27	<0.27
Bromophenyl phenyl ether, 4-	mg/kg	None	None	None	<0.063	<0.064	<0.064	<0.063	<0.063	<0.067	<0.069	<0.062	<0.064	<0.062	<0.063
Butyl benzyl phthlate	mg/kg	780	110,000	None	<0.24	<0.24	<0.24	<0.24	<0.24	<0.25	<0.26	<0.23	<0.24	<0.23	<0.24
Chloroaniline, 4-	mg/kg	7.4	2,100	None	<0.078	<0.079	<0.079	<0.078	<0.077	<0.083	<0.085	<0.077	<0.078	<0.077	<0.077
Chloromethylphenol, 4-, 3-	mg/kg	None	53,000	None	<0.090	<0.091	<0.092	<0.090	<0.089	<0.096	<0.098	<0.089	<0.091	<0.089	<0.090
Chloronaphthalene, beta-	mg/kg	None	27,000	None	<0.061	<0.062	<0.062	<0.061	<0.060	<0.065	<0.067	<0.060	<0.061	<0.060	<0.061
Chlorophenol, 2-	mg/kg	None	3,900	None	<0.11	<0.11	<0.11	<0.11	<0.10	<0.11	<0.12	<0.10	<0.11	<0.10	<0.11
Chlorophenyl phenyl ether, 4-	mg/kg	None	None	None	<0.075	<0.076	<0.077	<0.076	<0.075	<0.080	<0.082	<0.074	<0.076	<0.075	<0.075
Chrysene	mg/kg	1,300	None	None	<0.072	<0.073	<0.074	<0.073	<0.072	<0.077	<0.079	0.23 J	<0.073	<0.072	<0.072
Dibenz(a,h)anthracene	mg/kg	0.31	None	None	<0.11	<0.11	<0.11	<0.11	<0.11	<0.12	<0.12	<0.11	<0.11	<0.11	<0.11
Dibenzofuran	mg/kg	None	650	None	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.11	<0.10	<0.10	<0.10	<0.10
Dibutyl phthalate	mg/kg	None	53,000	None	<0.078	<0.079	<0.080	<0.078	<0.078	<0.083	<0.085	<0.077	<0.079	<0.077	<0.078
Dichlorobenzene, 1,2-	mg/kg	None	9,300	None	<0.079	<0.080	<0.081	<0.080	<0.079	<0.085	<0.087	<0.078	<0.080	<0.078	<0.079
Dichlorobenzene, 1,3-	mg/kg	None	None	None	<0.074	<0.075	<0.076	<0.074	<0.074	<0.079	<0.081	<0.073	<0.075	<0.073	<0.074
Dichlorobenzene, 1,4-	mg/kg	11	25,000	None	<0.076	<0.077	<0.078	<0.076	<0.075	<0.081	<0.083	<0.075	<0.077	<0.075	<0.076
Dichlorobenzidine, 3,3'-	mg/kg	1.2	None	None	<0.87	<0.88	<0.89	<0.88	<0.87	<0.93	<0.95	<0.86	<0.88	<0.86	<0.87
Dichlorophenol, 2,4-	mg/kg	None	1,600	None	<0.045	<0.045	<0.046	<0.045	<0.044	<0.048	<0.049	<0.044	<0.045	<0.044	<0.045

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Boring:					PFP-06	PFP-07	PFP-07	PFP-08	PFP-08	PFP-09	PFP-09	PFP-10	PFP-10	PFP-11	PFP-11
Depth (ft bgs):		Cancer	Noncancer		4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0
Date Collected:					2020-11-05	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05
Dichlorophenol, 2,6-	mg/kg	None	None	None	<0.070	<0.070	<0.071	<0.070	<0.069	<0.074	<0.076	<0.069	<0.070	<0.069	<0.069
Diethyl phthalate	mg/kg	None	420,000	None	<0.065	<0.066	<0.067	<0.066	<0.065	<0.070	<0.072	<0.065	<0.066	<0.065	<0.065
Dimethyl phthalate	mg/kg	None	None	None	<0.067	<0.068	<0.069	<0.068	<0.067	<0.072	<0.074	<0.067	<0.068	<0.067	<0.067
Dimethylphenol, 2,4-	mg/kg	None	11,000	None	<0.049	<0.049	<0.050	<0.049	<0.048	<0.052	<0.053	<0.048	<0.049	<0.048	<0.048
Dinitromethylphenol, 4,6-, 2-	mg/kg	None	42	None	<1.0	<1.1	<1.1	<1.0	<1.0	<1.1	<1.1	<1.0	<1.1	<1.0	<1.0
Dinitrophenol, 2,4-	mg/kg	None	1,100	None	<1.7	<1.7	<1.7	<1.7	<1.7	<1.8	<1.9	<1.7	<1.7	<1.7	<1.7
Dinitrotoluene, 2,4-	mg/kg	4.7	1,000	None	<0.049	<0.049	<0.050	<0.049	<0.048	<0.052	<0.053	<0.048	<0.049	<0.048	<0.048
Dinitrotoluene, 2,6-	mg/kg	0.99	160	None	<0.063	<0.064	<0.064	<0.063	<0.062	<0.067	<0.069	<0.062	<0.063	<0.062	<0.063
Di-n-octyl phthalate	mg/kg	None	5,300	None	<0.39	<0.39	<0.39	<0.39	<0.38	<0.41	<0.42	<0.38	<0.39	<0.38	<0.38
Fluoranthene	mg/kg	None	18,000	None	<0.063	<0.063	<0.064	<0.063	<0.062	<0.067	<0.068	0.085 J	<0.063	<0.062	<0.062
Fluorene	mg/kg	None	17,000	None	<0.071	<0.072	<0.073	<0.072	<0.071	<0.076	<0.078	<0.070	<0.072	<0.071	<0.071
Hexachlorobenzene	mg/kg	0.86	470	None	<0.098	<0.10	<0.10	<0.099	<0.098	<0.10	<0.11	<0.097	<0.099	<0.097	<0.098
Hexachlorobutadiene	mg/kg	5.3	160	None	<0.054	<0.054	<0.055	<0.054	<0.053	<0.057	<0.059	<0.053	<0.054	<0.053	<0.053
Hexachlorocyclopentadiene	mg/kg	None	7.5	None	<0.40	<0.41	<0.41	<0.40	<0.40	<0.43	<0.44	<0.40	<0.41	<0.40	<0.40
Hexachloroethane	mg/kg	8.0	460	None	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.13	<0.11	<0.12	<0.11	<0.12
Indeno(1,2,3-c,d)pyrene	mg/kg	13	None	None	<0.097	<0.098	<0.099	<0.097	<0.096	<0.10	<0.11	0.12 J	<0.098	<0.096	<0.096
Isophorone	mg/kg	1,600	110,000	None	<0.073	<0.074	<0.075	<0.074	<0.073	<0.078	<0.080	<0.072	<0.074	<0.073	<0.073
Methylnaphthalene, 1-	mg/kg	30	22,000	None	<0.039	<0.039	<0.040	<0.039	<0.039	<0.041	<0.042	<0.038	<0.039	<0.038	<0.039
Methylnaphthalene, 2-	mg/kg	None	1,300	None	<0.061	<0.062	<0.062	<0.061	<0.061	<0.065	<0.067	<0.060	<0.062	<0.060	<0.061
Methylphenol, 2-	mg/kg	None	26,000	None	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.11	<0.10	<0.10	<0.10	<0.10
Methylphenol, 3,4-	mg/kg	None	None	None	<0.67	<0.68	<0.69	<0.67	<0.67	<0.72	<0.73	<0.66	<0.68	<0.66	<0.67
Naphthalene	mg/kg	6.5	570	None	0.64	<0.062	<0.063	0.26 J	0.38 J	<0.066	<0.067	<0.061	<0.062	0.53	0.18 J
Nitroaniline, 2-	mg/kg	None	5,200	None	<0.070	<0.071	<0.071	<0.070	<0.069	<0.074	<0.076	<0.069	<0.070	<0.069	<0.069
Nitroaniline, 3-	mg/kg	None	None	None	<0.050	<0.051	<0.052	<0.051	<0.050	<0.054	<0.055	<0.050	<0.051	<0.050	<0.050
Nitroaniline, 4-	mg/kg	74	2,100	None	<0.047	<0.048	<0.048	<0.047	<0.047	<0.050	<0.052	<0.047	<0.048	<0.047	<0.047
Nitrobenzene	mg/kg	22	1,300	None	<0.047	<0.047	<0.048	<0.047	<0.046	<0.050	<0.051	<0.046	<0.047	<0.046	<0.047
Nitrophenol, 2-	mg/kg	None	None	None	<0.050	<0.051	<0.051	<0.051	<0.050	<0.054	<0.055	<0.050	<0.051	<0.050	<0.050
Nitrophenol, 4-	mg/kg	None	None	None	<0.066	<0.066	<0.067	<0.066	<0.065	<0.070	<0.072	<0.065	<0.066	<0.065	<0.065
Nitrosodimethylamine, N-	mg/kg	0.034	5.7	None	<0.082	<0.083	<0.084	<0.082	<0.081	<0.088	<0.090	<0.081	<0.083	<0.081	<0.082
Nitroso-di-N-propylamine, N-	mg/kg	0.21	None	None	<0.071	<0.072	<0.073	<0.072	<0.071	<0.076	<0.078	<0.070	<0.072	<0.071	<0.071
Nitrosodiphenylamine, N-	mg/kg	300	None	None	<0.042	<0.042	<0.042	<0.042	<0.041	<0.044	<0.045	<0.041	<0.042	<0.041	<0.041

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Analyte	Units	Commercial/Industrial RBSLs		Background	PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Sample ID:					PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Boring:					PFP-06	PFP-07	PFP-07	PFP-08	PFP-08	PFP-09	PFP-09	PFP-10	PFP-10	PFP-11	PFP-11
Depth (ft bgs):		Cancer	Noncancer		4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0
Date Collected:					2020-11-05	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05
Pentachlorophenol	mg/kg	2.0	1,500	None	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1	<1.1	<1.1
Phenanthrene	mg/kg	None	None	None	<0.065	<0.066	<0.067	<0.065	<0.065	<0.070	<0.071	<0.064	<0.066	<0.065	<0.065
Phenol	mg/kg	None	160,000	None	<0.10	<0.10 U *	<0.10 U *	<0.10	<0.10	<0.11 U *	<0.11 U *	<0.10 U *	<0.10 U *	<0.10	<0.10
Pyrene	mg/kg	None	13,000	None	<0.080	<0.081	<0.082	<0.081	<0.080	<0.086	<0.088	0.12 J	<0.081	<0.080	<0.080
Pyridine	mg/kg	None	530	None	<0.088	<0.089	<0.090	<0.088	<0.087	<0.094	<0.096	<0.087	<0.089	<0.087	<0.088
Trichlorobenzene, 1,2,4-	mg/kg	35	260	None	<0.042	<0.042	<0.043	<0.042	<0.042	<0.045	<0.046	<0.041	<0.042	<0.042	<0.042
Trichlorophenol, 2,4,5-	mg/kg	None	53,000	None	<0.075	<0.076	<0.077	<0.076	<0.075	<0.080	<0.082	<0.074	<0.076	<0.075	<0.075
Trichlorophenol, 2,4,6-	mg/kg	21	530	None	<0.084	<0.085	<0.086	<0.084	<0.083	<0.090	<0.092	<0.083	<0.085	<0.083	<0.084
Low-Level Semivolatile Organic Compounds (SVOCs)															
Acenaphthene	mg/kg	None	23,000	None	<0.014	<0.014	<0.014	<0.014	<0.014	<0.015	<0.015	<0.013	<0.014	<0.014	<0.014
Acenaphthylene	mg/kg	None	None	None	<0.010	<0.010	<0.010	<0.010	<0.010	<0.011	<0.011	<0.0099	<0.010	<0.010	0.011 J
Anthracene	mg/kg	None	130,000	None	<0.0092	<0.0095	<0.0096	<0.0094	<0.0093	<0.010	<0.010	<0.0091	<0.0095	<0.0093	<0.0094
Benz(a)anthracene	mg/kg	12	None	None	<0.0083	<0.0086	<0.0087	<0.0085	<0.0084	<0.0091	<0.0092	0.13	<0.0086	<0.0084	<0.0085
Benzo(a)pyrene	mg/kg	1.3	130	None	<0.0084	<0.0087	<0.0089	<0.0086	<0.0086	<0.0092	<0.0093	0.12	<0.0087	<0.0085	<0.0086
Benzo(b)fluoranthene	mg/kg	13	None	None	<0.015	<0.016	<0.016	<0.016	<0.016	<0.017	<0.017	0.12	<0.016	<0.016	<0.016
Benzo(g,h,i)perylene	mg/kg	None	None	None	<0.011	<0.011	<0.012	<0.011	<0.011	<0.012	<0.012	0.062	<0.011	<0.011	<0.011
Benzo(k)fluoranthene	mg/kg	130	None	None	<0.0078	<0.0080	<0.0082	<0.0079	<0.0079	<0.0085	<0.0086	0.10	<0.0080	<0.0078	<0.0079
Chrysene	mg/kg	1,300	None	None	<0.0067	<0.0069	<0.0071	<0.0069	<0.0068	<0.0073	<0.0074	0.13	<0.0069	<0.0068	<0.0069
Dibenz(a,h)anthracene	mg/kg	0.31	None	None	<0.011	<0.012	<0.012	<0.012	<0.012	<0.012	<0.013	0.017 J	<0.012	<0.012	<0.012
Fluoranthene	mg/kg	None	18,000	None	<0.0083	<0.0086	<0.0087	0.011 J	<0.0085	<0.0091	<0.0092	0.041	<0.0086	<0.0084	<0.0085
Fluorene	mg/kg	None	17,000	None	<0.010	0.012 J	<0.011	<0.010	<0.010	<0.011	<0.011	<0.010	<0.010	<0.010	<0.010
Indeno(1,2,3-c,d)pyrene	mg/kg	13	None	None	<0.012	<0.013	<0.013	<0.013	<0.013	<0.014	<0.014	0.055	<0.013	<0.013	<0.013
Methylnaphthalene, 1-	mg/kg	30	22,000	None	<0.011	<0.012	<0.012	<0.011	<0.011	<0.012	<0.012	<0.011	<0.012	<0.011	0.011 J
Methylnaphthalene, 2-	mg/kg	None	1,300	None	<0.011	<0.011	<0.011	<0.011	<0.011	<0.012	<0.012	<0.011	<0.011	<0.011	0.012 J
Naphthalene	mg/kg	6.5	570	None	0.070	0.041	<0.0097	0.057	0.073	0.032	<0.010	0.014 J	0.027	<0.0094	0.38
Phenanthrene	mg/kg	None	None	None	<0.0072	<0.0074	<0.0076	0.010 J	<0.0073	<0.0079	<0.0079	<0.0072	<0.0074	<0.0073	0.012 J
Pyrene	mg/kg	None	13,000	None	<0.0090	<0.0092	<0.0094	0.013 J	<0.0091	<0.0098	<0.0099	0.050	<0.0092	<0.0091	<0.0092
Polychlorinated Biphenyls (PCBs)															
Aroclor-1016	mg/kg	17	29	None	<0.042	<0.042	<0.043	<0.042	<0.042	<0.045	<0.045	<0.042	<0.043	<0.042	<0.042
Aroclor-1221	mg/kg	0.53	None	None	<0.042	<0.042	<0.043	<0.042	<0.042	<0.045	<0.045	<0.042	<0.043	<0.042	<0.042
Aroclor-1232	mg/kg	0.49	None	None	<0.042	<0.042	<0.043	<0.042	<0.042	<0.045	<0.045	<0.042	<0.043	<0.042	<0.042

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Analyte / Sample ID:	Units	Commercial/Industrial RBSLs		Background	PFP-06-4.0	PFP-07-1.5	PFP-07-4.0	PFP-08-1.5	PFP-08-4.0	PFP-09-1.5	PFP-09-4.0	PFP-10-1.5	PFP-10-4.0	PFP-11-1.5	PFP-11-4.0
Boring:					PFP-06	PFP-07	PFP-07	PFP-08	PFP-08	PFP-09	PFP-09	PFP-10	PFP-10	PFP-11	PFP-11
Depth (ft bgs):		Cancer	Noncancer		4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0	1.5	4.0
Date Collected:					2020-11-05	2020-11-04	2020-11-04	2020-11-05	2020-11-05	2020-11-04	2020-11-04	2020-11-04	2020-11-04	2020-11-05	2020-11-05
Aroclor-1242	mg/kg	0.58	None	None	<0.042	<0.042	<0.043	<0.042	<0.042	<0.045	<0.045	<0.042	<0.043	<0.042	<0.042
Aroclor-1248	mg/kg	0.58	None	None	<0.042	<0.042	<0.043	<0.042	<0.042	<0.045	<0.045	<0.042	<0.043	<0.042	<0.042
Aroclor-1254	mg/kg	0.59	8.4	None	<0.027	<0.027	<0.028	<0.027	<0.027	<0.029	<0.029	<0.027	<0.028	<0.027	<0.027
Aroclor-1260	mg/kg	0.60	None	None	<0.027	<0.027	<0.028	<0.027	<0.027	<0.029	<0.029	<0.027	<0.028	<0.027	<0.027
Aroclor-1262	mg/kg	None	None	None	<0.027	<0.027	<0.028	<0.027	<0.027	0.072	<0.029	<0.027	<0.028	<0.027	<0.027
Aroclor-1268	mg/kg	None	None	None	<0.027	<0.027	<0.028	<0.027	<0.027	0.039 J	<0.029	<0.027	<0.028	<0.027	<0.027
Metals															
Antimony	mg/kg	None	470	1.95	<0.16	<0.17	<0.16	<0.17	<0.16	0.44 J	<0.17	0.55 J	<0.17	0.21 J	<0.16
Arsenic	mg/kg	0.36	4.2	12	1.4	0.87	0.77 J	1.8	1.9	2.2	1.9	2.3	2.0	3.1	1.8
Barium	mg/kg	None	220,000	1,400	154	159	155	152	137	134	130	131	129	134	132
Beryllium	mg/kg	6,900	230	2.7	0.52	0.67	0.66	0.57	0.58	0.53	0.48	0.55	0.53	0.58	0.50
Cadmium	mg/kg	9,300	980	1.7	0.39 J	0.37 J	0.37 J	0.42 J	0.46 J	0.29 J	0.31 J	0.40 J	0.31 J	0.37 J	0.32 J
Chromium	mg/kg	None	None	1,579	7.0	12	10	11	10	9.7	12	11	11	11	11
Cobalt	mg/kg	1,900	350	46.9	9.5	15	9.1	7.8	8.1	8.7	8.2	8.8	8.6	11	7.3
Copper	mg/kg	None	47,000	96.4	4.1	7.8	6.2	7.0	9.8	6.8	8.0	7.0	6.3	8.7	7.9
Lead	mg/kg	None	320	97.1	<0.14 U L	17	<0.14	0.38 J	0.29 J	9.0	2.6	<0.14	0.26 J	0.76	2.3
Mercury	mg/kg	None	4.4	0.90	<0.015	0.024 J	0.063 J	<0.014	<0.015	0.021 J	0.035 J	0.031 J	0.027 J	<0.015	<0.015
Molybdenum	mg/kg	None	5,800	9.6	<0.14 U L	<0.15 U L	<0.14 U L	<0.15 U L	<0.14 U L	<0.15 U L	<0.15 U L	<0.14 U L	<0.15 U L	<0.14	<0.14 U L
Nickel	mg/kg	64,000	11,000	509	8.1	7.9	7.6	7.8	7.3	7.6	8.6	7.8	7.8	8.1	7.1
Selenium	mg/kg	None	5,800	0.43	<0.32	<0.33	<0.32	<0.33	<0.33	<0.35	<0.35	<0.32	<0.33	<0.32	<0.31
Silver	mg/kg	None	5,800	8.3	<0.091	0.21 J	<0.092	<0.095	<0.093	<0.10	<0.099	<0.090 U L	<0.095	0.16 J	<0.089
Thallium	mg/kg	None	12	1.1	0.72 J B	<0.17	<0.16	<0.17	<0.17	<0.18	0.18 J	0.31 J	<0.17	0.66 J B	<0.16
Vanadium	mg/kg	None	5,800	288	28	40	37	35	34	34	34	37	35	33	31
Zinc	mg/kg	None	350,000	236	33	44	39	38	42	38	39	39	36	40	39
Other															
pH	SU	None	None	None	7.5	7.9	7.5	8.3	8.0	8.1	8.0	8.0	8.0	8.7	8.1
Temperature	°C	None	None	None	20	20	20	20	20	20	20	20	20	20	19

Table 23. PathForward Soil Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13 and 15

Notes:

(1) Less-than sign (<) indicates analyte was not detected above indicated laboratory reporting limit. En-dash (–) indicates sample was not analyzed for compound.

(2) Abbreviations:
- ft bgs – feet below ground surface
- mg/kg – milligrams per kilogram
- °C – degrees Celsius
- TPH-g – total petroleum hydrocarbons in the gasoline range
- TPH-jf – total petroleum hydrocarbons in the Jet A range
- TPH-d – total petroleum hydrocarbons in the diesel range
- TPH-mo – total petroleum hydrocarbons in the motor oil range

(3) Data qualifiers:
- B – Compound was found in the blank and sample.
- F1 – MS and/or MSD recovery exceeds control limits.
- J – Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- L – A negative instrument reading had an absolute value greater than the reporting limit.
- * – LCS or LCSD is outside acceptance limits.

(4) Sampling results are compared to Department of Toxic Substances Control (DTSC)-recommended human health risk-based screening levels for commercial/industrial soil (DTSC 2020, USEPA 2020).

(5) Highlighting key:
- – Detected concentration exceeds one or more screening levels.
- – Detected concentration exceeds one or more screening levels, but is consistent with background/ambient conditions.

(6) Background/ambient concentrations are from:
- Bradford, G.R., Chang, A.C., Page, A.L., Bakhtar, D., Frampton, J.A., and Wright, H. 1996. Background Concentrations of Trace and Major Elements in California Soils. Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California. March.
- DTSC. 2018.Determination of a Southern California Regional Background Arsenic Concentration in Soil. January 31.

Table source is from PathForward

Table 24. PathForward Soil Gas Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte	Units	Commercial/Industrial RBSLs		PFP-01-SG	PFP-02-SG	PFP-03-SG	PFP-07-SG	PFP-09-SG	PFP-10-SG	PFP-10-SG REP
Sample ID:				PFP-01-SG	PFP-02-SG	PFP-03-SG	PFP-07-SG	PFP-09-SG	PFP-10-SG	PFP-10-SG REP
Boring:				PFP-01	PFP-02	PFP-03	PFP-07	PFP-09	PFP-10	PFP-10
Depth (ft bgs):		Cancer	Noncancer	5.0	5.0	5.0	5.0	4.5	4.5	SG REP
Date Collected:				2020-11-08	2020-11-08	2020-11-08	2020-11-08	2020-11-08	2020-11-08	2020-11-08
Volatile Organic Compounds (VOCs)										
Benzene	µg/m³	14	430	<20	<20	<20	<20	<20	<20	<20
Bromobenzene	µg/m³	None	8,700	<100	<100	<100	<100	<100	<100	<100
Bromochloromethane	µg/m³	None	6,000	<100	<100	<100	<100	<100	<100	<100
Bromodichloromethane	µg/m³	11	12,000	<100	<100	<100	<100	<100	<100	<100
Bromoform	µg/m³	370	12,000	<100	<100	<100	<100	<100	<100	<100
Bromomethane	µg/m³	None	730	<100	<100	<100	<100	<100	<100	<100
Butylbenzene, n-	µg/m³	None	29,000	<100	<100	<100	<100	<100	<100	<100
Butylbenzene, sec-	µg/m³	None	60,000	<100	<100	<100	<100	<100	<100	<100
Butylbenzene, tert-	µg/m³	None	60,000	<100	<100	<100	<100	<100	<100	<100
Carbon tetrachloride	µg/m³	67	6,000	<20	<20	<20	<20	<20	<20	<20
Chlorobenzene	µg/m³	None	7,300	<20	<20	<20	<20	<20	<20	<20
Chloroethane	µg/m³	None	1.5E+06	<100	<100	<100	<100	<100	<100	<100
Chloroform	µg/m³	18	14,000	<20	<20	<20	<20	<20	<20	<20
Chloromethane	µg/m³	None	13,000	<100	<100	<100	<100	<100	<100	<100
Chlorotoluene, 2-	µg/m³	None	12,000	<100	<100	<100	<100	<100	<100	<100
Chlorotoluene, 4-	µg/m³	None	12,000	<100	<100	<100	<100	<100	<100	<100
Dibromochloromethane	µg/m³	19	12,000	<100	<100	<100	<100	<100	<100	<100
Dibromochloropropane, 1,2-, 3-	µg/m³	0.067	29	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Dibromoethane, 1,2-	µg/m³	0.67	120	<100	<100	<100	<100	<100	<100	<100
Dibromomethane	µg/m³	None	600	<100	<100	<100	<100	<100	<100	<100
Dichlorobenzene, 1,2-	µg/m³	None	29,000	<100	<100	<100	<100	<100	<100	<100
Dichlorobenzene, 1,3-	µg/m³	None	None	<100	<100	<100	<100	<100	<100	<100
Dichlorobenzene, 1,4-	µg/m³	37	120,000	<100	<100	<100	<100	<100	<100	<100
Dichlorodifluoromethane	µg/m³	None	15,000	<100	<100	<100	<100	<100	<100	<100
Dichloroethane, 1,1-	µg/m³	260	120,000	<100	<100	<100	<100	<100	<100	<100
Dichloroethane, 1,2-	µg/m³	16	1,000	<20	<20	<20	<20	<20	<20	<20
Dichloroethene, 1,1-	µg/m³	None	10,000	<100	<100	<100	<100	<100	160	150
Dichloroethene, 1,2-, cis-	µg/m³	None	1,200	<100	<100	<100	<100	<100	<100	<100
Dichloroethene, 1,2-, trans-	µg/m³	None	12,000	<100	<100	<100	<100	<100	<100	<100
Dichloropropane, 1,2-	µg/m³	110	600	<100	<100	<100	<100	<100	<100	<100
Dichloropropane, 1,3-	µg/m³	None	12,000	<100	<100	<100	<100	<100	<100	<100

Table 24. PathForward Soil Gas Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Analyte / Sample ID / Boring / Depth (ft bgs) / Date Collected:	Units	Commercial/Industrial RBSLs		PFP-01-SG	PFP-02-SG	PFP-03-SG	PFP-07-SG	PFP-09-SG	PFP-10-SG	PFP-10-SG REP
				PFP-01	PFP-02	PFP-03	PFP-07	PFP-09	PFP-10	PFP-10
		Cancer	Noncancer	5.0	5.0	5.0	5.0	4.5	4.5	SG REP
				2020-11-08	2020-11-08	2020-11-08	2020-11-08	2020-11-08	2020-11-08	2020-11-08
Dichloropropane, 2,2-	µg/m³	None	None	<100	<100	<100	<100	<100	<100	<100
Dichloropropene, 1,1-	µg/m³	None	None	<100	<100	<100	<100	<100	<100	<100
Dichloropropene, 1,3-, cis-	µg/m³	None	None	<100	<100	<100	<100	<100	<100	<100
Dichloropropene, 1,3-, trans-	µg/m³	None	None	<100	<100	<100	<100	<100	<100	<100
Difluoroethane, 1,1-	µg/m³	None	6.0E+06	<100	<100	<100	200	<100	<100	<100
Ethylbenzene	µg/m³	160	150,000	<100	<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	µg/m³	19	600	<100	<100	<100	<100	<100	<100	<100
Isopropylbenzene	µg/m³	None	60,000	<100	<100	<100	<100	<100	<100	<100
Isopropyltoluene, p-	µg/m³	None	None	<100	<100	<100	<100	<100	<100	<100
Methyl tert-butyl ether	µg/m³	1,600	430,000	<100	<100	<100	<100	<100	<100	<100
Methylene chloride	µg/m³	400	60,000	<100	<100	<100	<100	<100	<100	<100
Naphthalene	µg/m³	12	430	<20	<20	<20	<20	<20	<20	<20
Propylbenzene, n-	µg/m³	None	150,000	<100	<100	<100	<100	<100	<100	<100
Styrene	µg/m³	None	130,000	<100	<100	<100	<100	<100	<100	<100
Tetrachloroethane, 1,1,1,2-	µg/m³	57	18,000	<100	<100	<100	<100	<100	<100	<100
Tetrachloroethane, 1,1,2,2-	µg/m³	7.0	12,000	<100	<100	<100	<100	<100	<100	<100
Tetrachloroethene	µg/m³	67	6,000	40	130	20	<20	46	41	36
Toluene	µg/m³	None	43,000	<200	<200	<200	<200	<200	<200	<200
Trichlorobenzene, 1,2,3-	µg/m³	None	470	<100	<100	<100	<100	<100	<100	<100
Trichlorobenzene, 1,2,4-	µg/m³	57	290	<100	<100	<100	<100	<100	<100	<100
Trichloroethane, 1,1,1-	µg/m³	None	150,000	<100	<100	<100	<100	<100	<100	<100
Trichloroethane, 1,1,2-	µg/m³	26	29	<100	<100	<100	<100	<100	<100	<100
Trichloroethene	µg/m³	100	290	<20	<20	<20	<20	<20	<20	<20
Trichlorofluoromethane	µg/m³	None	180,000	<100	<100	<100	<100	<100	<100	<100
Trichloropropane, 1,2,3-	µg/m³	0.053	43	<100	<100	<100	<100	<100	<100	<100
Trichlorotrifluoroethane, 1,1,2-, 1,2,2-	µg/m³	None	730,000	<100	<100	<100	<100	<100	<100	<100
Trimethylbenzene, 1,2,4-	µg/m³	None	8,700	<100	<100	<100	<100	<100	<100	<100
Trimethylbenzene, 1,3,5-	µg/m³	None	8,700	<100	<100	<100	<100	<100	<100	<100
Vinyl chloride	µg/m³	5.3	15,000	<10	<10	<10	<10	<10	<10	<10
Xylene, m,p-	µg/m³	None	15,000	<100	<100	<100	<100	<100	<100	<100
Xylene, o-	µg/m³	None	15,000	<100	<100	<100	<100	<100	<100	<100

Table 24. PathForward Soil Gas Sampling Results vs. Risk-Based Screening Levels, Unit 5 (Peaker), Generating Units 3 and 4, and Generating Units 1 and 2, AOIs 6, 13, and 15

Notes:

(1) Soil gas sampling results for VOCs reported in micrograms per cubic meter (µg/m³). Less-than sign (<) indicates analyte was not detected above indicated laboratory reporting limit.

(2) Soil gas sampling results are compared to DTSC-recommended soil gas risk-based screening levels which incorporate the following components.
- DTSC-recommended indoor air risk-based screening levels for commercial/industrial land use (DTSC 2020, USEPA 2020); and
- DTSC-recommended sub-slab soil gas-to-indoor air attenuation factor of 0.03 (DTSC and SWRCB 2020).

The attenuation factor does not account for bioattenuation of petroleum compounds.

Screening levels are based on cancer (CA) or noncancer (NC) health effects.

Detected concentrations that exceed screening levels are highlighted.

Table source is PathForward

Table 25
Summary of Site Areas of Interest
Etiwanda Generating Station

Area Number	Area of Interest	Location	Purpose	Number of Proposed Borings	Proposed Locations	Proposed Sample Depths	Proposed Analytes	Soil Vapor
1	Distillate Tank for Unit 5 Peaker	SE part of Site	Storage	4	DT-1 DT-2 DT-3 DT-4	2.5, 5, 10	TPH, VOCs, SVOCs, PAHs (1)	Yes
2	Former Boiler Chemical Cleaning Basin	SE part of Site	Storage	0	None	None	None	No
3	South Retention Basin (Closed)	SE part of Site	Storage	0	None	None	None	No
4	North Retention Basin (Closed)	SE part of Site	Storage	0	None	None	None	No
5	Fueling Station	SE part of Site	Storage	2	F5-1 F5-2	2.5, 5, 10	TPH, VOCs, lead (1) (2)	Yes
6	Unit 5 (Peaker)	SE of Unit 1	Storage	5	PT-1 PT-2 PT-3 PT-4 P-1 P-2 P-3 P-4	0, 0.5, 1, 2.5 for PT-1 through PT-4 and 2.5, 5, 10 for P-1, soil vapor only for P-2 through P-4	TPH, PCBs, VOCs (1) (2)	Yes
7	Administration Building	Center of Site	Service	0	None	None	None	No
8	Decommissioned RO Equip and Basin	S part of Site	Storage	0	None	None	None	No
9	Laydown Area	SW side of Site	Service	0	None	None	None	No
10	Units 1 and 2 Cooling Towers	W side of Site	Service	0	None	None	None	No

Table 25
Summary of Site Areas of Interest
Etiwanda Generating Station

Area Number	Area of Interest	Location	Purpose	Number of Proposed Borings	Proposed Locations	Proposed Sample Depths	Proposed Analytes	Soil Vapor
11	Chadwick Channel	Center of Site	Storage	11	F11-1 F11-2A F11-2B F11-3 F11-4 F11-5 F11-6 F11-7 F11-8 F11-9 F11-10	0.5, 2.5, 5	TPH-diesel, TPH-oil, VOCs, SVOCs, PCBs (2)	No
12	Units 4 Cooling Towers and Cooling Tower Transformer	N part of Site	Service	0	None	None	None	No
13	Generating Units 3 & 4	Center of Site	Service	0	None	None	None	No
14	Hazardous Waste Accumulation Area	S part of Site	Storage	1	F14-1	0, 0.5, 1, 2.5, 5, 10	TPH, VOCs, metals, PCBs	Yes
15	Generating Units 1 & 2	E part of Site	Service	1	F15-1	5 for soil vapor only	None for soil	Yes
16	Warehouse	N Central part of Site, N of Units 1 and 2	Service	borings proposed in this area are summarized under maintenance shop				
17	Maintenance Shop	NE part of Site, N of Units 1 and 2	Service	19	SS-1B, MS-10 through MS-18 and SS-4 through SS-12	0.5, 2.5, 5, 10, 15, 20	TPH, VOCs, metals	Yes
18	Welding Shop	NE part of Site, N of Units 1 and 2	Service	borings proposed in this area are summarized under maintenance shop				
19	Unit 3 Cooling Towers	N Central part of Site	Storage	0	None	None	None	No
20	Capped Natural Gas Easement	E part of Site	Service	0	None	None	None	No

Table 25
Summary of Site Areas of Interest
Etiwanda Generating Station

Area Number	Area of Interest	Location	Purpose	Number of Proposed Borings	Proposed Locations	Proposed Sample Depths	Proposed Analytes	Soil Vapor
21	Cooling Tower Makeup Water Pond	NE part of Site	Storage	1	F21-1	0.5, 2.5, 5, 10	TPH, VOCs (2)	Yes
22	Construction and Operations Waste	NW part of Site	Storage	0	None	None	None	No
23	Auxiliary Transformers	S and NW part of Site	Service	0	None	None	None	No
24	Sulfuric Acid Tank	N and NW part of Site	Storage	2	F24-1 F24-2	0.5, 2.5, 5	Metals (2)	No
25	Units 3 & 4 Transformers	Center of Site	Service	12	T3-4-1 T3-4-2 T3-4-3 T3-4-4 T3-4-5 T3-4-6 T3-4-7 T3-4-8 T3-4-9 T3-4-10 T3-4-11 T3-4-12	0, 0.5, 1, 2.5	TPH, VOCs, PCBs (1) (2)	No
26	Units 1 & 2 Transformers	NE part of Site	Service	32	T1-2-1 T1-2-2 T1-2-3 T1-2-4 T1-2-5 T1-2-6 T1-2-7 T1-2-8 T1-2-9 T1-2-10 T1-2-11 T1-2-12 T1-2-13	0, 0.5, 1, 2.5	TPH, VOCs, PCBs (1) (2)	No

Table 25
Summary of Site Areas of Interest
Etiwanda Generating Station

Area Number	Area of Interest	Location	Purpose	Number of Proposed Borings	Proposed Locations	Proposed Sample Depths	Proposed Analytes	Soil Vapor
26 (cont'd)	Units 1 & 2 Transformers (cont'd)	NE part of Site (cont'd)	Service	32 (cont'd)	T1-2-14 T1-2-15 T1-2-16 T1-2-17 T1-2-18 T1-2-19 T1-2-20 T1-2-21 T1-2-22 T1-2-23 T1-2-24 T1-2-25 T1-2-26 T1-2-27 T1-2-28 T1-2-29 T1-2-30 T1-2-31 T1-2-32	0, 0.5, 1, 2.5 (cont'd)	TPH, VOCs, PCBs (1) (2) (cont'd)	No (con'td)
27	Acid Caustic Tank Area	S part of Site	Storage	1	FS-3	0.5, 2.5, 5	pH, metals (2)	No
28	Well Water Storage Tank	E part of Site	Storage	0	None	None	None	No
29	Distilled Water Tanks	E part of Site	Storage	0	None	None	None	No
30	Cooling Water Tank	Center of Site	Storage	0	None	None	None	No
31	Fire House (foam)	S part of Site	Service	0	None	None	None	No
32	Fire Water Pumps	Center of Site	Service	0	None	None	None	No
33	Sludge Drainage Area	W part of Site	Storage	0	None	None	None	No
34	Northern Fill	NW part of Site	Storage	0	None	None	None	No
35	Hypochlorite Tanks	N and W part of Site	Storage	3	F35-1 F35-2 F35-3	0.5, 2.5, 5	pH, metals (2)	No
36	Former Hazardous Waste Area	SW side of Site	Storage	3	F36-1 F36-2 F36-3	0, 0.5, 1, 2.5, 5, 10	TPH, VOCs, metals, PCBs	Yes
37	Septic Pits	E part of Site	Service	borings proposed in this area are summarized under maintenance shop				
38	Flumes	W part of Site	Service	0	None	None	None	No

Table 25
Summary of Site Areas of Interest
Etiwanda Generating Station

Area Number	Area of Interest	Location	Purpose	Number of Proposed Borings	Proposed Locations	Proposed Sample Depths	Proposed Analytes	Soil Vapor

Notes:

TPH	Total petroleum hydrocarbons (including C4-C12, C13-C22, C23-C32, C6-C8, C9-C16, and C17-C32 ranges)
VOCs	Volatile organic compounds
PCBs	Polychlorinated biphenyls
(1)	Soil samples with TPH in any of the ranges above 100 mg/kg will be further analyzed for VOCs, SVOCs, and PAHs
(2)	Deeper sample(s) held pending the results of the shallower samples.

Table 26
Boring, Sample, and Analysis Schedule
Etiwanda Generating Station

Feature Number	Area of Interest	Location or Special Instruction	Boring Name	Sample Depth (feet bgs)	Soil TPH by EPA 8015B (1)	Soil VOCs by EPA 8260B	Soil SVOCs including PAHs by EPA 8270C	Soil Lead by EPA Method 6020	Soil Metals by EPA Methods 6020/7471A	Soil PCBs by EPA 8082	Soil pH by EPA 9045C	Soil Gas Probe at Specified Depth(s) (2)	Soil Vapor VOCs by EPA 8260B
1	Distillate Tank for Unit 5 Peaker	Borings adjacent to the base of the tank	DT-1	2.5	A	H, P	H, P						
				5	A	H, P	H, P					Yes	A
				10	A	H, P	H, P					Yes	A
			DT-2	2.5	A	H, P	H, P						
				5	A	H, P	H, P					Yes	A
				10	A	H, P	H, P					Yes	A
			DT-3	2.5	A	H, P	H, P						
				5	A	H, P	H, P					Yes	A
				10	A	H, P	H, P					Yes	A
			DT-4	2.5	A	H, P	H, P						
				5	A	H, P	H, P					Yes	A
				10	A	H, P	H, P					Yes	A
2	Former Boiler Chemical Cleaning Basin	Basin	None	None	No Sampling Proposed								
3	South Retention Basin (Closed)	Basin	None	None	No Sampling Proposed								
4	North Retention Basin	Basin	None	None	No Sampling Proposed								
5	Fueling Station	One boring adjacent to pump and the second boring adjacent to the UST	F5-1	2.5	A	A		A					
				5	A	A		A				Yes	A
				10	A	H, P		H, P				Yes	A
			F5-2	2.5	A	A		A					
				5	A	A		A				Yes	A
				10	A	H, P		H, P				Yes	A
6	Unit 5 (Peaker)	Transformer by Fill Port and areas of staining (if present)	PT-1	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			PT-2	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			PT-3	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			PT-4	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
		West of Peaker	P-1	2.5		A							
				5		A						Yes	A
				10		A						Yes	A
		West of Peaker	P-2	5								Yes	H
				10								Yes	H
		West of Peaker	P-3	5								Yes	H
				10								Yes	H
		West of Peaker	P-4	5								Yes	H
				10								Yes	H
7	Administration Building	Center of Site	None	None	No Sampling Proposed								
8	Decommissioned RO Equip and Basin	S part of Site	None	None	No Sampling Proposed								
9	Laydown Area	SW side of Site	None	None	No Sampling Proposed								
10	Units 1 and 2 Cooling Towers	W side of Site	None	None	No Sampling Proposed								
11	Chadwick Channel	Center of Site	F11-1	0.5	A	A	A			A			
				2.5	A	A	A			A			
				5	H	H	H			H			
			F11-2A	0.5	A	A	A			A			
				2.5	A	A	A			A			
				5	H	H	H			H			
			F11-2B	0.5	A	A	A			A			
				2.5	A	A	A			A			
				5	H	H	H			H			
			F11-3	0.5	A	A	A			A			
				2.5	A	A	A			A			
				5	H	H	H			H			
			F11-4	0.5	A	A	A			A			
				2.5	A	A	A			A			
				5	H	H	H			H			
			F11-5	0.5	A	A	A			A			
				2.5	A	A	A			A			
				5	H	H	H			H			
			F11-6	0.5	A	A	A			A			
				2.5	A	A	A			A			
				5	H	H	H			H			
			F11-7	0.5	A	A	A			A			
				2.5	A	A	A			A			
				5	H	H	H			H			
			F11-8	0.5	A	A	A			A			
				2.5	A	A	A			A			
				5	H	H	H			H			
			F11-9	0.5	A	A	A			A			
				2.5	A	A	A			A			
				5	H	H	H			H			
			F11-10	0.5	A	A	A			A			
				2.5	A	A	A			A			
				5	H	H	H			H			
12	Units 4 Cooling Towers and Cooling Tower Transformer	N part of Site	None	None	No Sampling Proposed								
13	Generating Units 3 & 4	Center of Site	None	None	No Sampling Proposed								
14	Hazardous Waste Accumulation Area	S part of Site	F14-1	0						A			
				0.5	A	A			A	A			
				1						A			
				2.5	A	A			A				
				5	H	H			H	H		Yes	A
				10	H	H			H	H		Yes	A
15	Generating Units 1 & 2	E part of Site	F15-1	5	None for soil							Yes	A
16	Warehouse	N Central part of Site, N of Units 1 and 2			Sampling in this area is summarized under maintenance shop								

Table 26
Boring, Sample, and Analysis Schedule
Etiwanda Generating Station

Feature Number	Area of Interest	Location or Special Instruction	Boring Name	Sample Depth (feet bgs)	Soil TPH by EPA 8015B (1)	Soil VOCs by EPA 8260B	Soil SVOCs including PAHs by EPA 8270C	Soil Lead by EPA Method 6020	Soil Metals by EPA Methods 6020/7471A	Soil PCBs by EPA 8082	Soil pH by EPA 9045C	Soil Gas Probe at Specified Depth(s) (2)	Soil Vapor VOCs by EPA 8260B
17	Maintenance Shop	E of Maintenance Shop	SS-1B	0.5	A	A							
				2.5	A	A							
				5	A	A						Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
		W of Maintenance Shop	MW-10	0.5	A	A			A				
				2.5	A	A			A				
				5	A	A			A			Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
			MS-11	0.5	A	A							
				2.5	A	A							
				5	A	A						Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
			MW-12	0.5	A	A			A				
				2.5	A	A			A				
				5	A	A			A			Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
			MS-13	0.5	A	A							
				2.5	A	A							
				5	A	A						Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
		W of Maintenance Shop (cont'd)	MS-14	0.5	A	A			A				
				2.5	A	A			A				
				5	A	A			A			Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
		N of Maintenance Shop	MS-15	0.5	A	A							
				2.5	A	A							
				5	A	A						Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
		E of Maintenance Shop	MS-16	0.5	A	A			A				
				2.5	A	A			A				
				5	A	A			A			Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
			MS-17	0.5	A	A			A				
				2.5	A	A			A				
				5	A	A			A			Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
			MS-18	0.5	A	A							
				2.5	A	A							
				5	A	A						Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
			SS-4	0.5	A	A			A				
				2.5	A	A			A				
				5	A	A			A			Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
			SS-5	0.5	A	A			A				
				2.5	A	A			A				
				5	A	A			A			Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
			SS-6	0.5	A	A							
				2.5	A	A							
				5	A	A						Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
			SS-7	0.5	A	A							
				2.5	A	A							
				5	A	A						Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
			SS-8	0.5	A	A							
				2.5	A	A							
				5	A	A						Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
			SS-9	0.5	A	A							
				2.5	A	A							
				5	A	A						Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
			SS-10	0.5	A	A			A				
				2.5	A	A			A				
				5	A	A			A			Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
			SS-11	0.5	A	A			A				
				2.5	A	A			A				
				5	A	A			A			Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A
			SS-12	0.5	A	A			A				
				2.5	A	A			A				
				5	A	A			A			Yes	A
				10	H	H						Yes	A
				15	H	H							
				20	H	H						Yes	A

Table 26
Boring, Sample, and Analysis Schedule
Etiwanda Generating Station

Feature Number	Area of Interest	Location or Special Instruction	Boring Name	Sample Depth (feet bgs)	Soil TPH by EPA 8015B (1)	Soil VOCs by EPA 8260B	Soil SVOCs including PAHs by EPA 8270C	Soil Lead by EPA Method 6020	Soil Metals by EPA Methods 6020/7471A	Soil PCBs by EPA 8082	Soil pH by EPA 9045C	Soil Gas Probe at Specified Depth(s) (2)	Soil Vapor VOCs by EPA 8260B
18	Welding Shop	NE part of Site, N of			Sampling in this area is summarized under maintenance shop								
19	Unit 3 Cooling Towers	N Central part of Site	None	None	No Sampling Proposed								
20	Capped Natural Gas Easement	E part of Site	None	None	No Sampling Proposed								
21	Cooling Tower Makeup Water Pond	Adjacent to diesel tank in SW corner of pond	F-21	0.5	A	A							
				2.5	A	A							
				5	H	H						Yes	A
				10	H	H						Yes	A
22	Construction and Operations Waste	NW part of Site	None	None	No Sampling Proposed								
23	Auxiliary Transformers	S and NW part of Site	None	None	No Sampling Proposed								
24	Sulfuric Acid Tank	N and NW part of Site	F24-1	0.5					A				
				2.5					A				
				5					H				
			F24-2	0.5					A				
				2.5					A				
				5					H				
25	Units 3 & 4 Transformers	1st Transformer by Fill Port and Areas of Staining (if present)	T3-4-1	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T3-4-2	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T3-4-3	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T3-4-4	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
		2nd Transformer by Fill Port and Areas of Staining (if present)	T3-4-5	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T3-4-6	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T3-4-7	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T3-4-8	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
		3rd Transformer by Fill Port and Areas of Staining (if present)	T3-4-9	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T3-4-10	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T3-4-11	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T3-4-12	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
26	Units 1 & 2 Transformers	1st Transformer by Fill Port and Areas of Staining (if present)	T1-2-1	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-2	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-3	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-4	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
		2nd Transformer by Fill Port and Areas of Staining (if present)	T1-2-5	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-6	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-7	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-8	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			

Table 26
Boring, Sample, and Analysis Schedule
Etiwanda Generating Station

Feature Number	Area of Interest	Location or Special Instruction	Boring Name	Sample Depth (feet bgs)	Soil TPH by EPA 8015B (1)	Soil VOCs by EPA 8260B	Soil SVOCs including PAHs by EPA 8270C	Soil Lead by EPA Method 6020	Soil Metals by EPA Methods 6020/7471A	Soil PCBs by EPA 8082	Soil pH by EPA 9045C	Soil Gas Probe at Specified Depth(s) (2)	Soil Vapor VOCs by EPA 8260B
26	Units 1 & 2 Transformers (cont'd)	3rd Transformer by Fill Port and Areas of Staining (if present)	T1-2-9	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-10	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-11	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-12	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
		4th Transformer by Fill Port and Areas of Staining (if present)	T1-2-13	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-14	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-15	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-16	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
		5th Transformer by Fill Port and Areas of Staining (if present)	T1-2-17	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-18	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-19	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-20	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
		6th Transformer by Fill Port and Areas of Staining (if present)	T1-2-21	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-22	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-23	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-24	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
		7th Transformer by Fill Port and Areas of Staining (if present)	T1-2-25	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-26	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-27	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-28	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
26	Units 1 & 2 Transformers (cont'd)	8th Transformer by Fill Port and Areas of Staining (if present)	T1-2-29	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-30	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-31	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			
			T1-2-32	0						A			
				0.5	A	H, P				A			
				1						A			
				2.5	A	H, P				H			

Table 26
Boring, Sample, and Analysis Schedule
Etiwanda Generating Station

Feature Number	Area of Interest	Location or Special Instruction	Boring Name	Sample Depth (feet bgs)	Soil TPH by EPA 8015B (1)	Soil VOCs by EPA 8260B	Soil SVOCs including PAHs by EPA 8270C	Soil Lead by EPA Method 6020	Soil Metals by EPA Methods 6020/7471A	Soil PCBs by EPA 8082	Soil pH by EPA 9045C	Soil Gas Probe at Specified Depth(s) (2)	Soil Vapor VOCs by EPA 8260B
27	Acid Caustic Tank Area	S part of Site	FS-3	0.5					A		A		
				2.5					A		A		
				5					H		H		
28	Well Water Storage Tank	E part of Site	None	None	No Sampling Proposed								
29	Distilled Water Tanks	E part of Site	None	None	No Sampling Proposed								
30	Cooling Water Tank	Center of Site	None	None	No Sampling Proposed								
31	Fire House (foam)	S part of Site	None	None	No Sampling Proposed								
32	Fire Water Pumps	Center of Site	None	None	No Sampling Proposed								
33	Sludge Drainage Area	W part of Site	None	None	No Sampling Proposed								
34	Northern Fill	NW part of Site	None	None	No Sampling Proposed								
35	Hypochlorite Tanks	N, NE, and W part of Site	F35-1	0.5					A		A		
				2.5					A		A		
				5					H		H		
			F35-2	0.5					A				
				2.5					A				
				5					H				
			F35-3	0.5					A				
				2.5					A				
				5					H				
36	Former Hazardous Waste Area	SW side of Site	F36-1	0						A			
				0.5	A	A			A	A			
				1						A			
				2.5	A	A			A				
				5	H	H			H	H		Yes	A
				10	H	H			H	H		Yes	A
			F36-2	0						A			
				0.5	A	A			A	A			
				1						A			
				2.5	A	A			A				
				5	H	H			H	H		Yes	A
				10	H	H			H	H		Yes	A
			F36-3	0						A			
				0.5	A	A			A	A			
				1						A			
				2.5	A	A			A				
				5	H	H			H	H		Yes	A
				10	H	H			H	H		Yes	A
37	Septic Pits	E part of Site			Sampling in this area is summarized under maintenance shop								
38	Flumes	W part of Site	None	None	No Sampling Proposed								

Notes:

(1) Total petroleum hydrocarbons (including C4-C12, C13-C22, C23-C32, C6-C8, C9-C16, and C17-C32 ranges)

(2) At locations where soil vapor sampling is not planned and TPH-gas or VOCs are detected in the soil, DTSC will be consulted to discuss the potential need for soil vapor sampling at that location.

A Analyze

H Hold pending results of shallower samples or nearby samples

P Potential soil analysis if TPH in any of the ranges above 100 mg/kg will be further analyzed for VOCs, SVOCs (including PAHs)

Table 27
Soil Sample Container, Preservation, and Holding Time Requirements
Etiwanda Generating Station

Parameter	Methodology	Container [1,2]	Minimum Sample Amount	Preservation	Holding Time [3]
Lead/Metals	EPA 6020/7471A	Glass Jar or parafilm/capped stainless steel sleeve	5 grams	Cool at 4 degrees Centigrade	180 days
Polychlorinated Biphenyls (PCB)	EPA 8082	Glass Jar or parafilm/capped stainless steel sleeve	20 grams	Cool at 4 degrees Centigrade	14 days (a)
pH	EPA 9045C	Glass Jar or parafilm/capped stainless steel sleeve	20 grams	Cool at 4 degrees Centigrade	14 days (a)
Semi-Volatile Organic Compounds (SVOCs) (including polyaromatic hydrocarbons [PAHs])	EPA 8270C	Glass Jar or parafilm/capped stainless steel sleeve	20 grams	Cool at 4 degrees Centigrade	14 days (a)
Total Petroleum Hyrocarbons (TPH) C4 to C12 (b)	EPA 8015M/5035	3 VOAs (TerraCore Kit or equivalent)	15 grams	Sodium bisulfate, methanol, cool at 4 degrees Centigrade	14 days (a)
TPH C13 to C34 (b)	EPA 8015M	Glass Jar or parafilm/capped stainless steel sleeve	10 grams	Cool at 4 degrees Centigrade	14 days
Volatile Organic Compounds (VOCs)	EPA 8260B/5035	3 VOAs (TerraCore Kit or equivalent)	15 grams	Sodium bisulfate, methanol, cool at 4 degrees Centigrade	14 days (a)

Notes:

[1] Additional volume will be collected for MS/MSD samples.

[2] Laboratory may provide alternate containers as long as the containers meet the requirements of the method and allow the collection of sufficient volume to perform the analyses.

[3] Holding time begins from date of sample collection.

(a) for extraction, 40 days after extraction

(b) TPH results will be reported over the C4-C12, C13-C22, C23-C32, C6-C8, C9-C16, and C17-C32 ranges.

APPENDIX D
Historical Research Documentation

DRAFT

APN 22928379

APN 22928379

Rancho Cucamonga, CA 91739

Inquiry Number: 7435504.3

September 05, 2023

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

09/05/23

Site Name:	Client Name:
APN 22928379	Kleinfelder, Inc.
APN 22928379	24411 Ridge Rte Dr Suite 225
Rancho Cucamonga, CA 9173	Laguna Hills, CA 92653
EDR Inquiry # 7435504.3	Contact: Lindsey Dandridge-Perry

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Certified Sanborn Results:

Certification # 2F9E-45F4-AEF6

PO # 24001666.002A

Project 24001666.002A

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: 2F9E-45F4-AEF6

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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APN 22928379

APN 22928379

Rancho Cucamonga, CA 91739

Inquiry Number: 7435504.11

September 05, 2023

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

09/05/23

Site Name:

APN 22928379
APN 22928379
Rancho Cucamonga, CA 9173
EDR Inquiry # 7435504.11

Client Name:

Kleinfelder, Inc.
24411 Ridge Rte Dr Suite 225
Laguna Hills, CA 92653
Contact: Lindsey Dandridge-Perry

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Search Results:

Year	*Scale*	*Details*	*Source*
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Acquisition Date: January 01, 2002	USGS/DOQQ
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: August 29, 1990	USDA
1985	1"=500'	Flight Date: July 28, 1985	USDA
1975	1"=500'	Flight Date: August 01, 1975	USGS
1966	1"=500'	Flight Date: April 16, 1966	USGS
1959	1"=500'	Flight Date: October 15, 1959	USDA
1953	1"=500'	Flight Date: February 02, 1953	USDA
1949	1"=500'	Flight Date: May 21, 1949	USDA
1938	1"=500'	Flight Date: May 27, 1938	USDA

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EDR



INQUIRY #: 7435504.11

YEAR: 2016

= 500'

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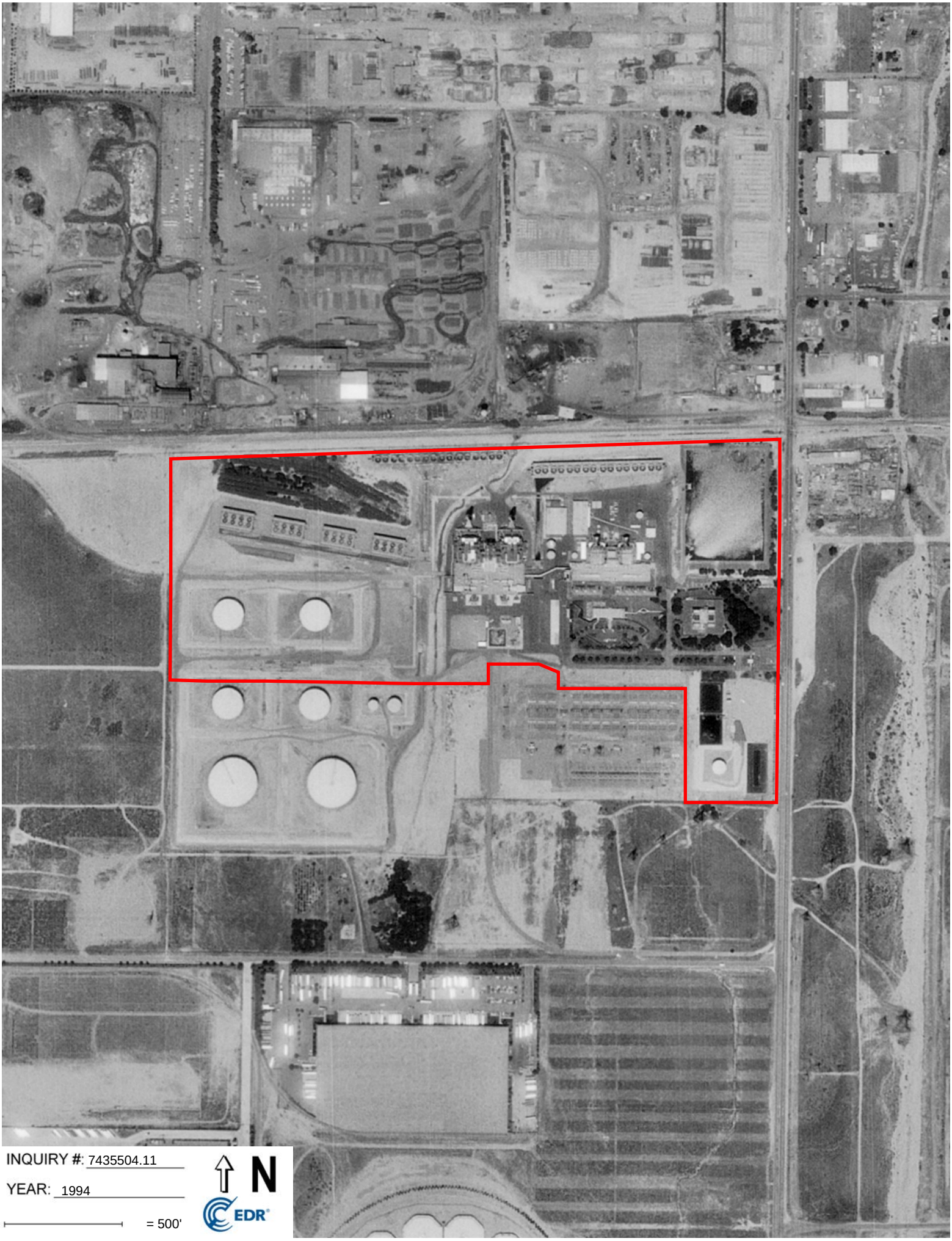
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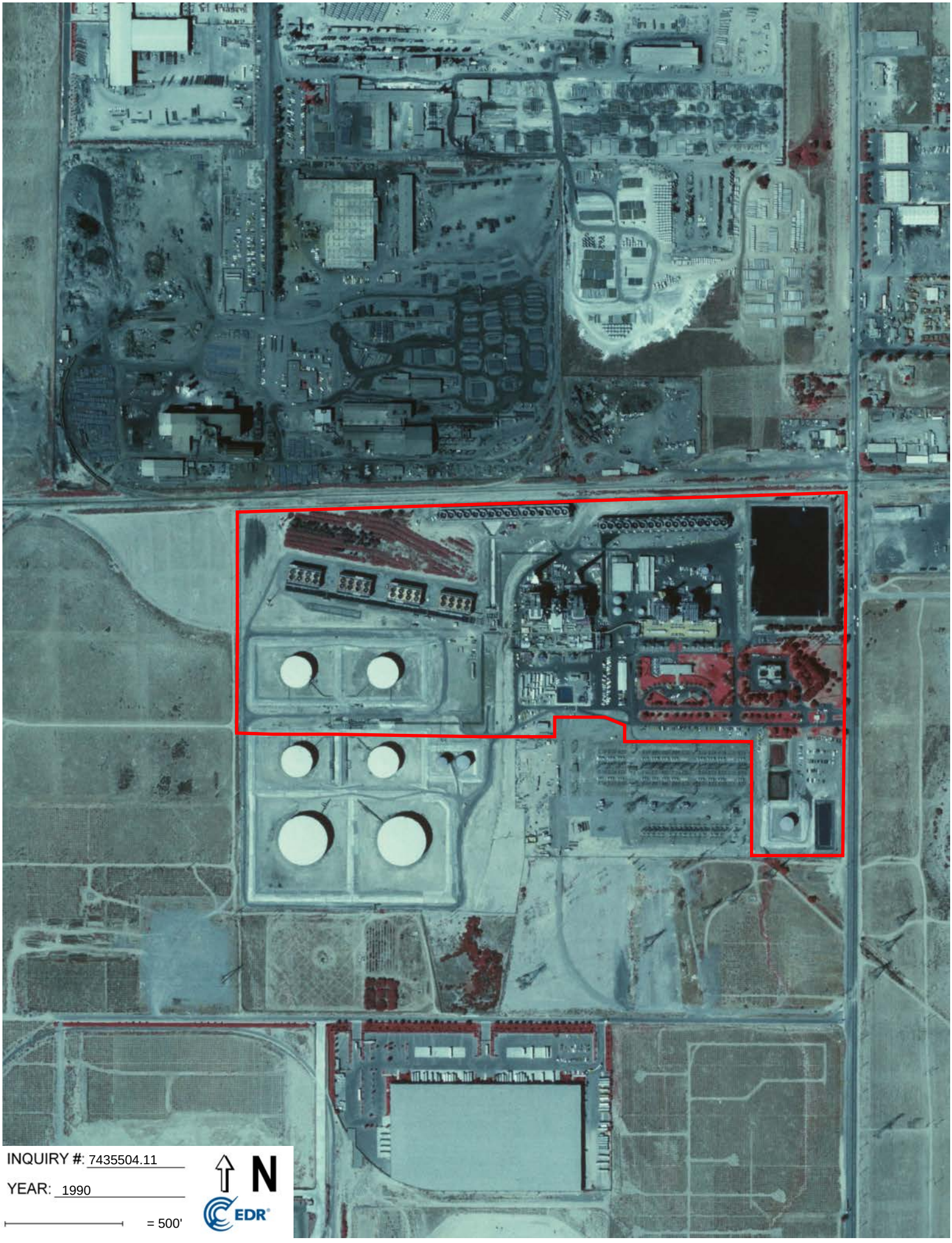

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EDR

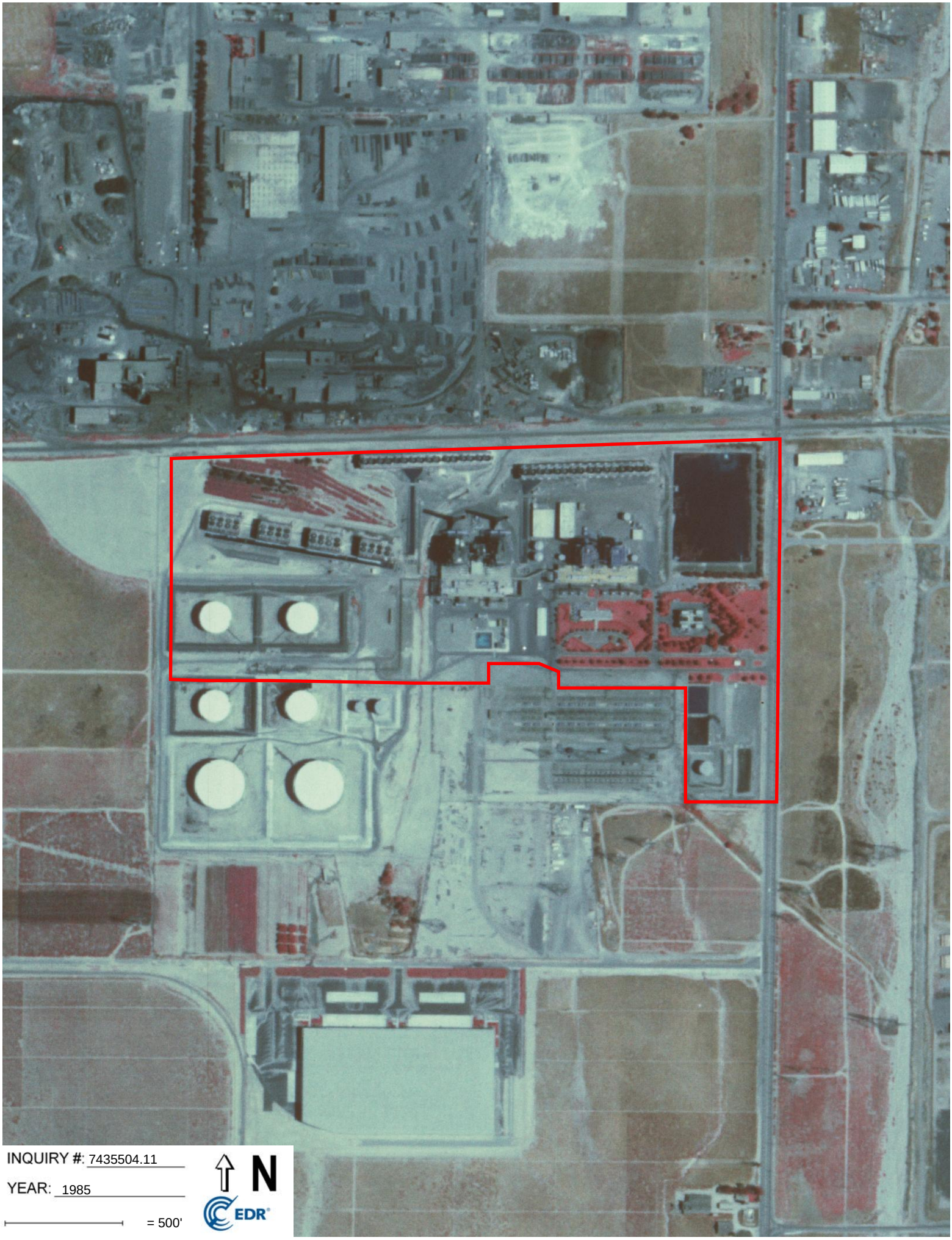

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EDR


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EDR


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YEAR: 1994
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EDR


INQUIRY #: 7435504.11
YEAR: 1990
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INQUIRY #: 7435504.11

YEAR: 1985

= 500'

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INQUIRY #: 7435504.11

YEAR: 1975

= 500'

N

EDR



INQUIRY #: 7435504.11

YEAR: 1966

= 500'

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INQUIRY #: 7435504.11

YEAR: 1959

= 500'

N

EDR



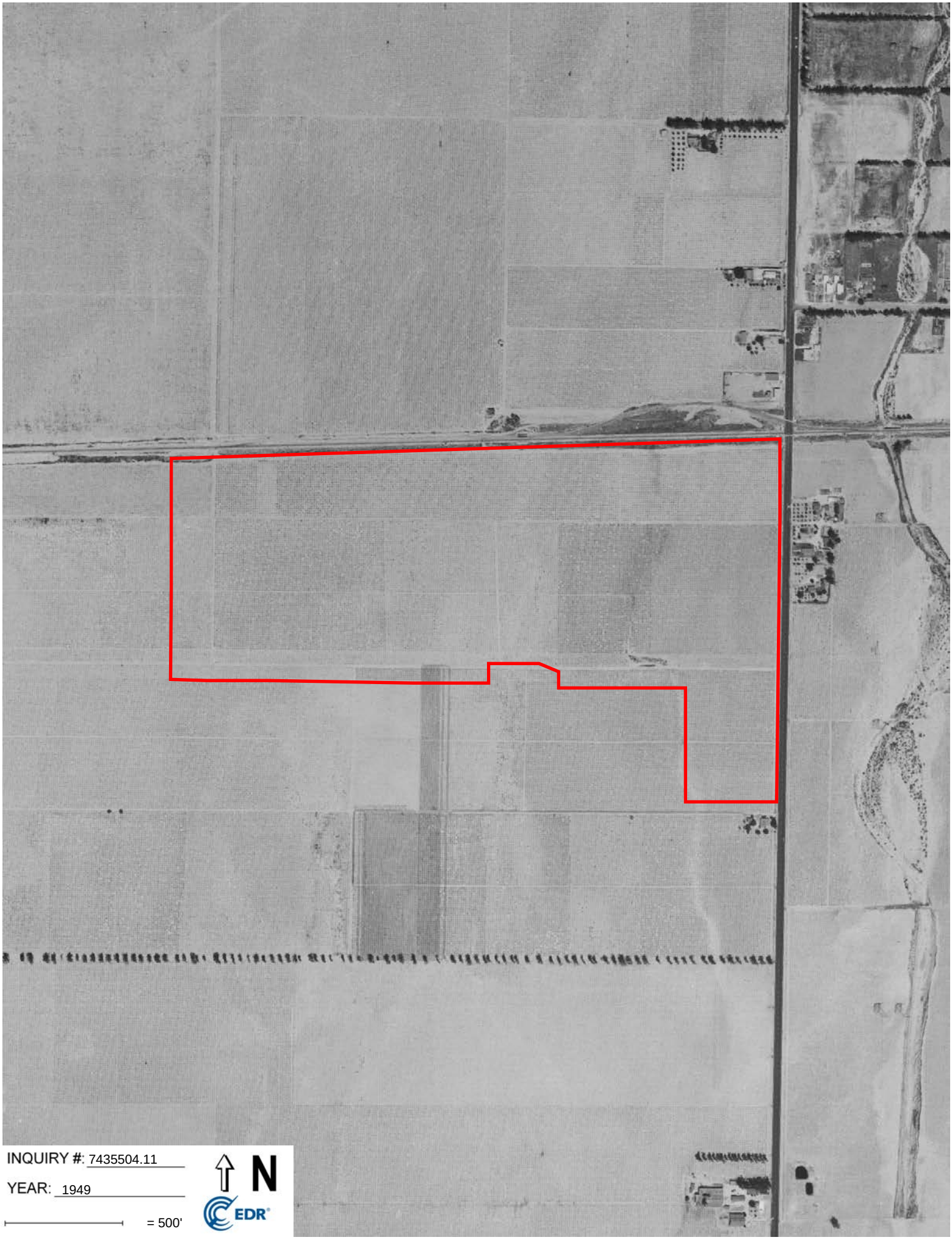
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EDR



INQUIRY #: 7435504.11

YEAR: 1949

= 500'

N

EDR



INQUIRY #: 7435504.11

YEAR: 1938

= 500'

N

EDR

APN 22928379
APN 22928379
Rancho Cucamonga, CA 91739

Inquiry Number: 7435504.5
September 14, 2023

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at approximately five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through current. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

Summary information obtained is provided in the text of this report.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2020	EDR Digital Archive	-	-	-	-
2017	Cole Information	-	-	-	-
2014	Cole Information	-	-	-	-
2010	Cole Information	-	-	-	-
2008	Haines Company, Inc.	X	-	X	-
2005	Cole Information	-	-	-	-
2003	Haines Co Publishers	X	-	X	-
2002	Cole Information Services	-	-	-	-
2000	Cole Information	-	-	-	-
1996	GTE	-	-	-	-
1995	Cole Information	-	-	-	-
	GTE Directories	-	-	-	-
1992	Cole Information	-	-	-	-
1991	GTE California Incorporated	-	-	-	-
1990	GTE California Incorporated	-	-	-	-
1985	GTE	X	-	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1981	General Telephone Company of California	-	-	-	-
1980	GTE	-	-	-	-
1975	Pacific Telephone Co	-	-	-	-
1970	General Telephone Company of California	-	-	-	-
1965	GTE	X	-	X	-
1964	Luskey Brothers & Co	-	-	-	-
1961	Luskey Brothers& Co Publishers	-	-	-	-
1960	Luskey Brothers & Co Publishers	-	-	-	-
1956	General Telephone Company Publishers	-	-	-	-
1955	Luskey Brothers Co Publishers	-	-	-	-
1951	Los Angeles Directory Co Publishers	-	-	-	-
1950	The Pacific Telephone and Telegraph Co	-	-	-	-
1949	San Bernardino Directory Co. Publishers	-	-	-	-
1946	Los Angeles Directory Company Publishers	-	-	-	-
1945	Southern Califronia Telephone Company	-	-	-	-
1942	San Bernardino Directory Co Publisher	-	-	-	-
1941	Associated Telephone Company Limited	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Co.	-	-	-	-
1936	San Bernardino Directory Co Publisher	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Co.	-	-	-	-
1930	San Bernardino Directory Co Publisher	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Company	-	-	-	-
1922	R.L. Polk & Co Publishers	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
8998 Etiwanda Avenue	Client Entered	
8996 Etiwanda Avenue	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

APN 22928379
Rancho Cucamonga, CA 91739

FINDINGS DETAIL

Target Property research detail.

Etiwanda

8996 Etiwanda

Year	*Uses*	*Source*
2008	XXXX	Haines Company, Inc.
2003	XXXX	Haines & Co Publishers
1985	ETIWANDA AV FON	GTE
	SEPHTON WTR TECHNLGY	GTE
1965	Southern California Edison Co Glen Bjotrklundsta attendant Steam Sta	Luskey Brothers & Co

Etiwanda Avenue

8996 Etiwanda Avenue

Year	*Uses*	*Source*

8998 Etiwanda Avenue

Year	*Uses*	*Source*

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Addresses Found

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
APN 22928379	2020, 2017, 2014, 2010, 2005, 2002, 2000, 1996, 1995, 1992, 1991, 1990, 1981, 1980, 1975, 1970, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

APN 22928379

APN 22928379

Rancho Cucamonga, CA 91739

Inquiry Number: 7435504.4

September 05, 2023

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

09/05/23

Site Name:

APN 22928379
APN 22928379
Rancho Cucamonga, CA 9173
EDR Inquiry # 7435504.4

Client Name:

Kleinfelder, Inc.
24411 Ridge Rte Dr Suite 225
Laguna Hills, CA 92653
Contact: Lindsey Dandridge-Perry

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Kleinfelder, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 24001666.002A
Project: 24001666.002A

Coordinates:

Latitude:	34.09114 34° 5' 28" North
Longitude:	-117.527679 -117° 31' 40" West
UTM Zone:	Zone 11 North
UTM X Meters:	451321.84
UTM Y Meters:	3772387.12
Elevation:	1122.71' above sea level

Maps Provided:

2018	1953
2015	1944
2012	1941
1981	1903
1976	1900
1973	1897
1966	
1954	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2018 Source Sheets



Guasti
2018
7.5-minute, 24000

2015 Source Sheets



Guasti
2015
7.5-minute, 24000

2012 Source Sheets



Guasti
2012
7.5-minute, 24000

1981 Source Sheets

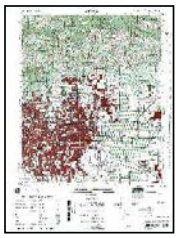


Guasti
1981
7.5-minute, 24000
Aerial Photo Revised 1978

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1976 Source Sheets



ONTARIO
1976
15-minute, 50000

1973 Source Sheets



Guasti
1973
7.5-minute, 24000
Aerial Photo Revised 1973

1966 Source Sheets



Guasti
1966
7.5-minute, 24000
Aerial Photo Revised 1966

1954 Source Sheets



Ontario
1954
15-minute, 62500
Aerial Photo Revised 1952

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1953 Source Sheets



Guasti
1953
7.5-minute, 24000
Aerial Photo Revised 1952

1944 Source Sheets



CUCAMONGA
1944
15-minute, 50000

1941 Source Sheets



GUASTI VICINITY
1941
7.5-minute, 31680

1903 Source Sheets



Cucamonga
1903
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1900 Source Sheets



Cucamonga
1900
15-minute, 62500

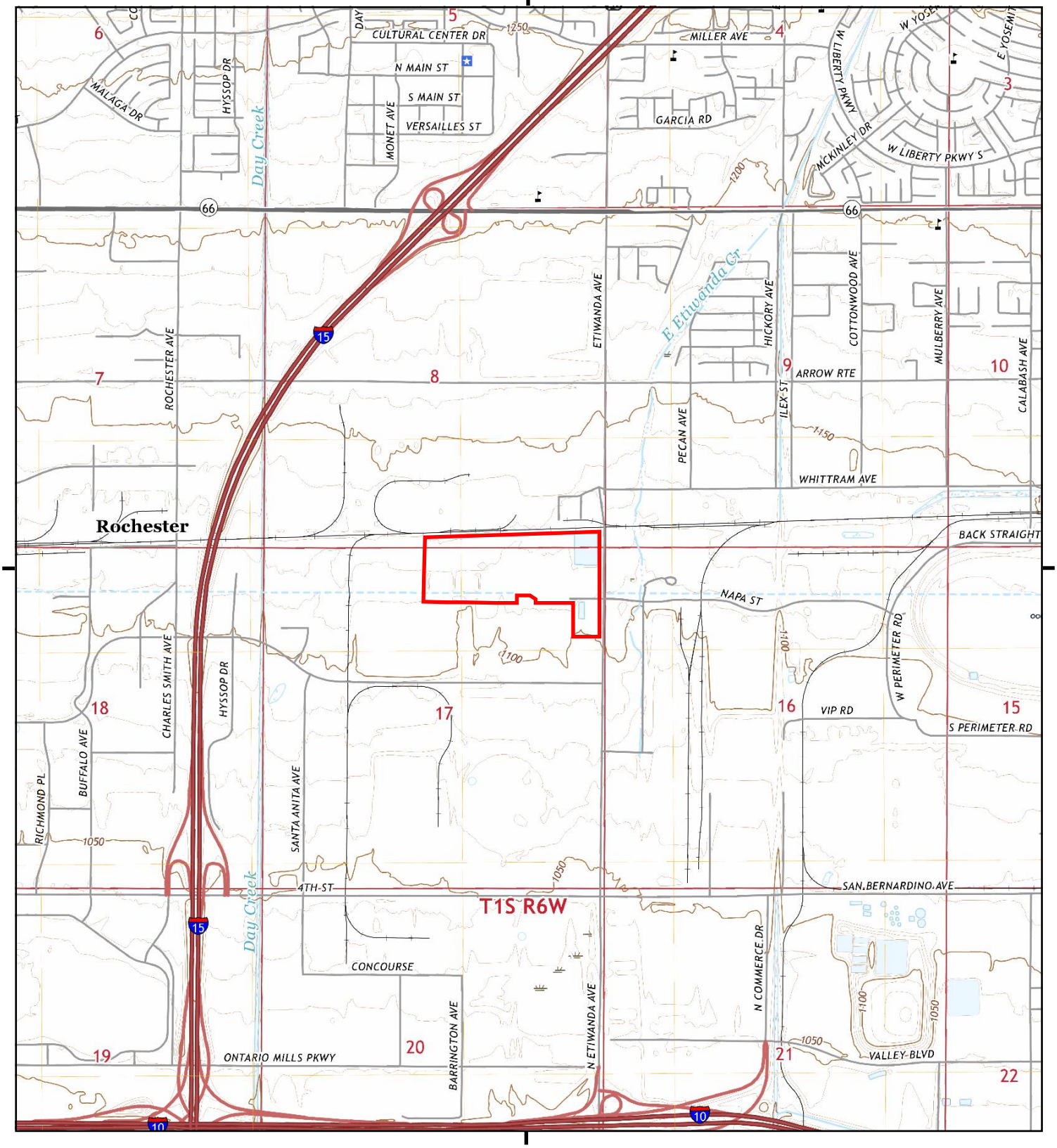
1897 Source Sheets



Cucamonga
1897
15-minute, 62500

Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

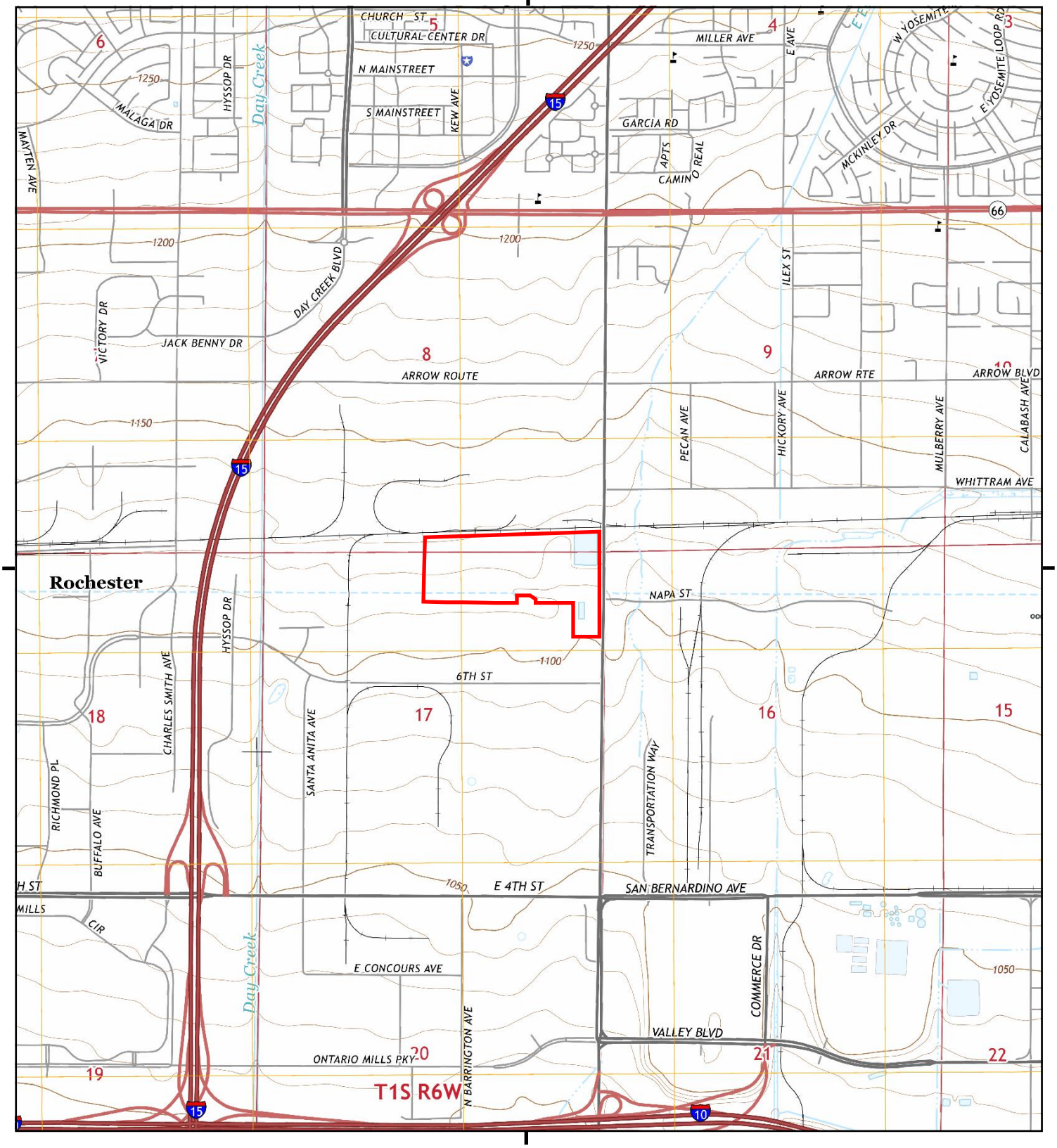
TP, Guasti, 2018, 7.5-minute

SITE NAME: APN 22928379
ADDRESS: APN 22928379
Rancho Cucamonga, CA 91739
CLIENT: Kleinfelder, Inc.

N

Historical Topo Map

2015



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

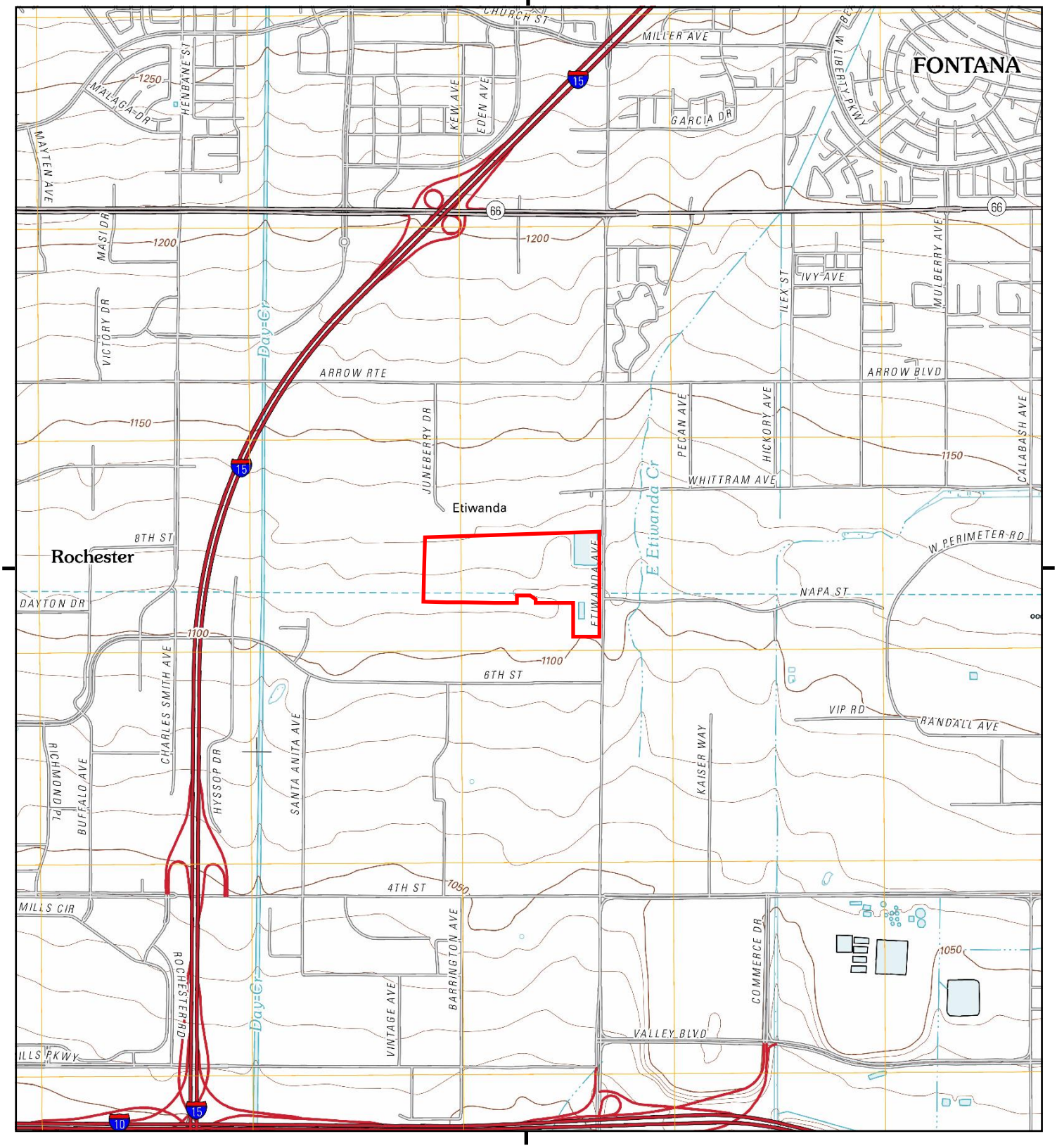
TP, Guasti, 2015, 7.5-minute

SITE NAME: APN 22928379
ADDRESS: APN 22928379
Rancho Cucamonga, CA 91739
CLIENT: Kleinfelder, Inc.

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

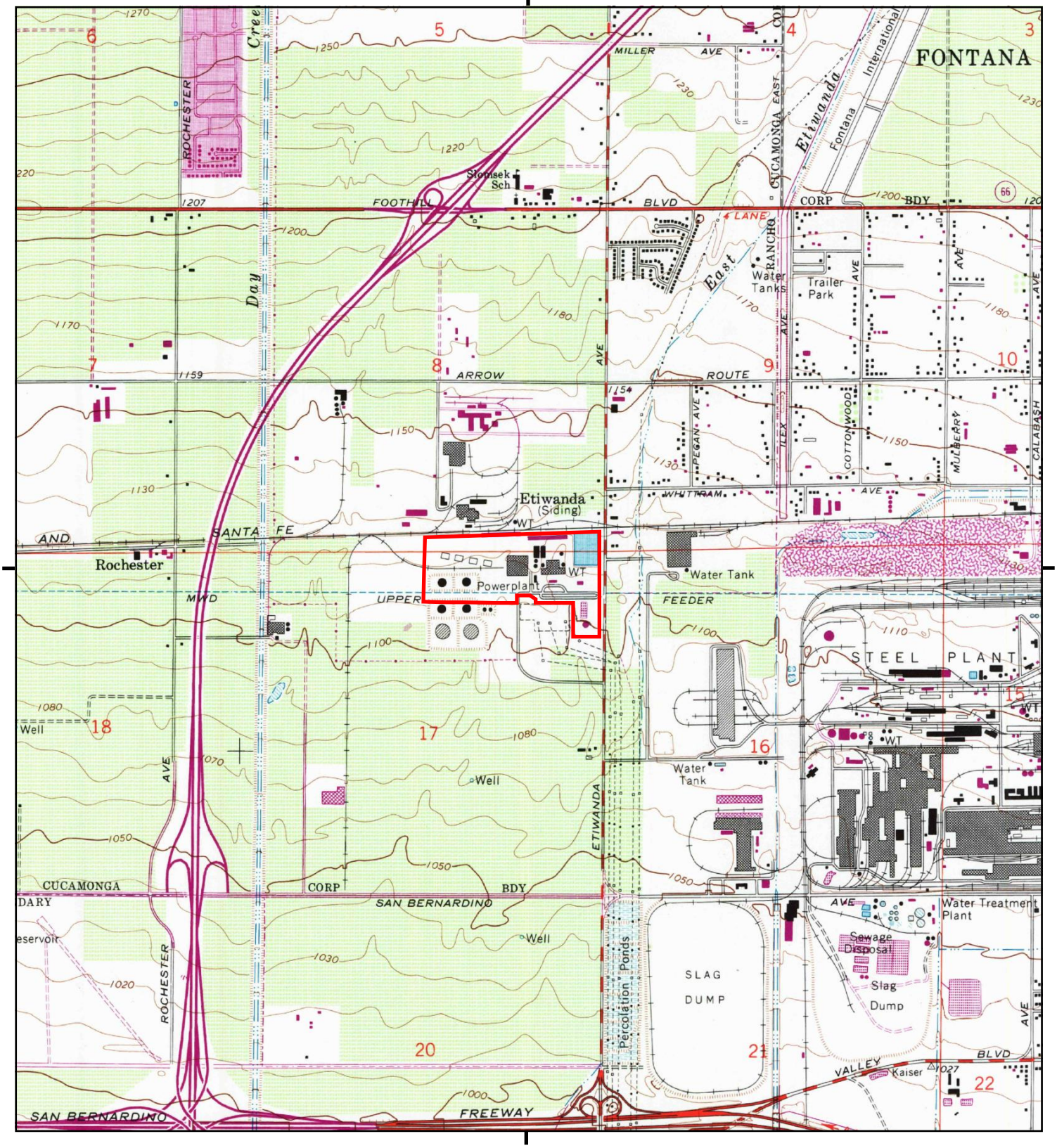
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Guasti, 2012, 7.5-minute

SITE NAME: APN 22928379
ADDRESS: APN 22928379
Rancho Cucamonga, CA 91739
CLIENT: Kleinfelder, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

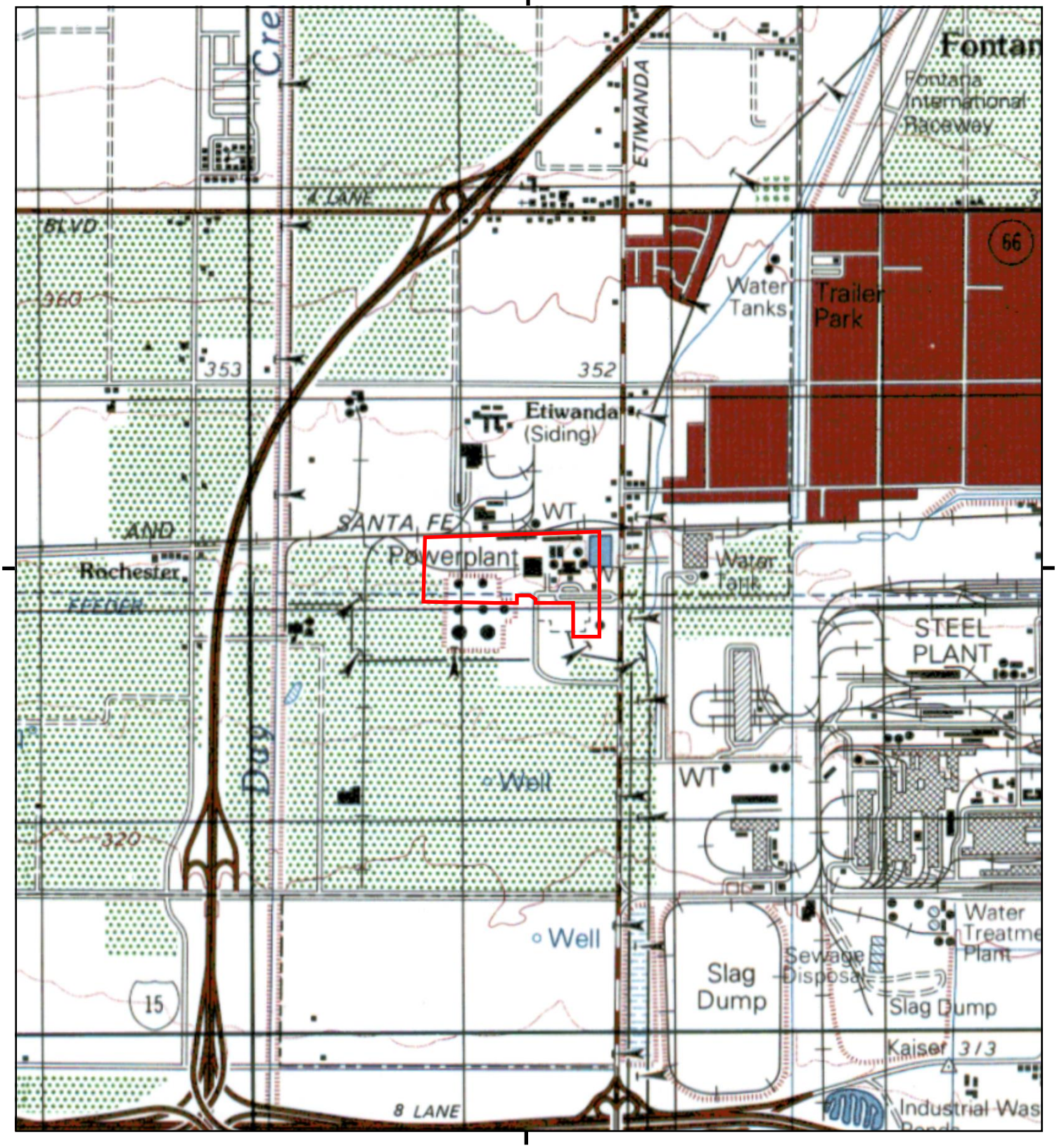
TP, Guasti, 1981, 7.5-minute

SITE NAME: APN 22928379
ADDRESS: APN 22928379
Rancho Cucamonga, CA 91739
CLIENT: Kleinfelder, Inc.

N

Historical Topo Map

1976



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

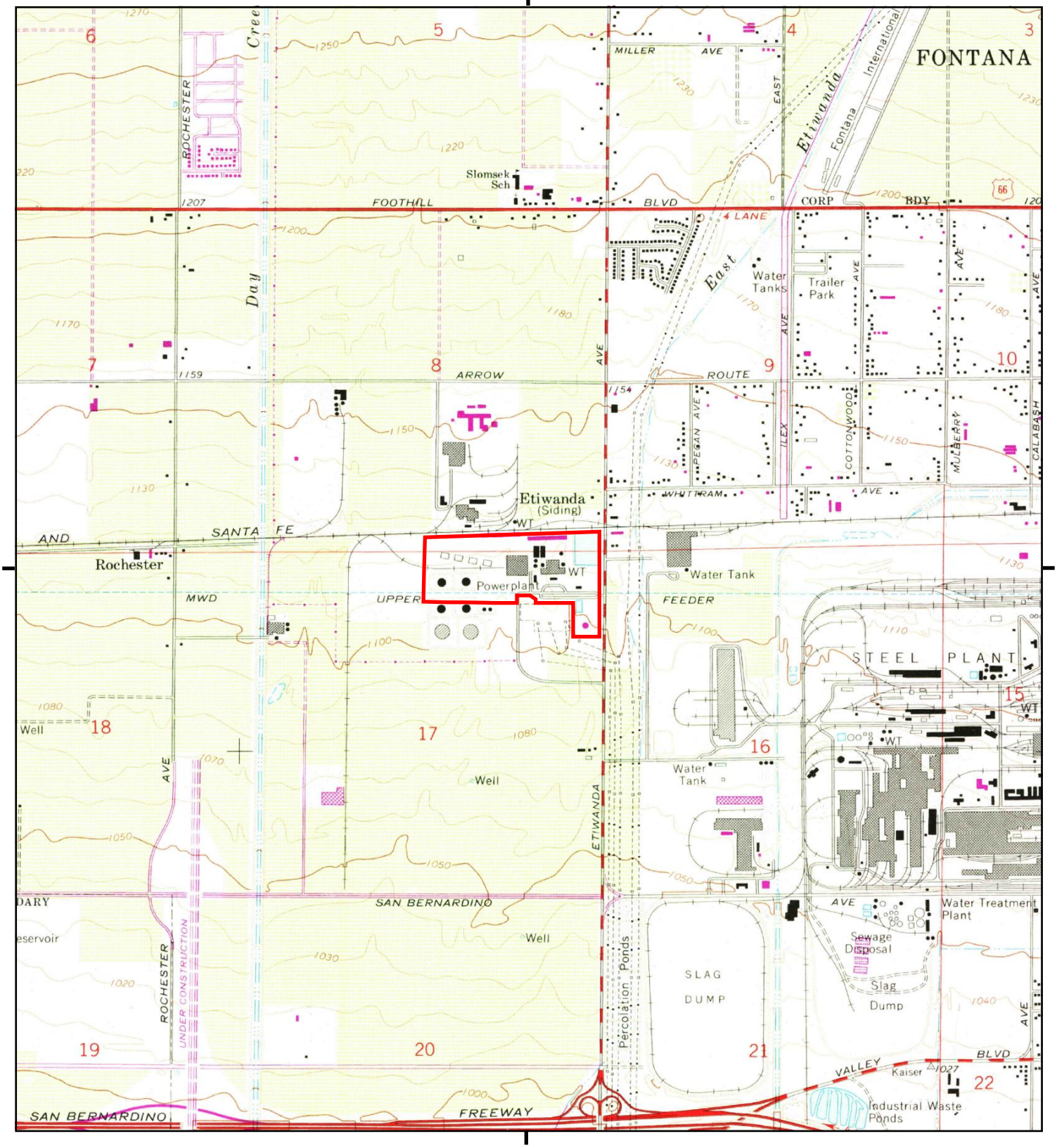
TP, ONTARIO, 1976, 15-minute

SITE NAME: APN 22928379
ADDRESS: APN 22928379
Rancho Cucamonga, CA 91739
CLIENT: Kleinfelder, Inc.

N

Historical Topo Map

1973



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

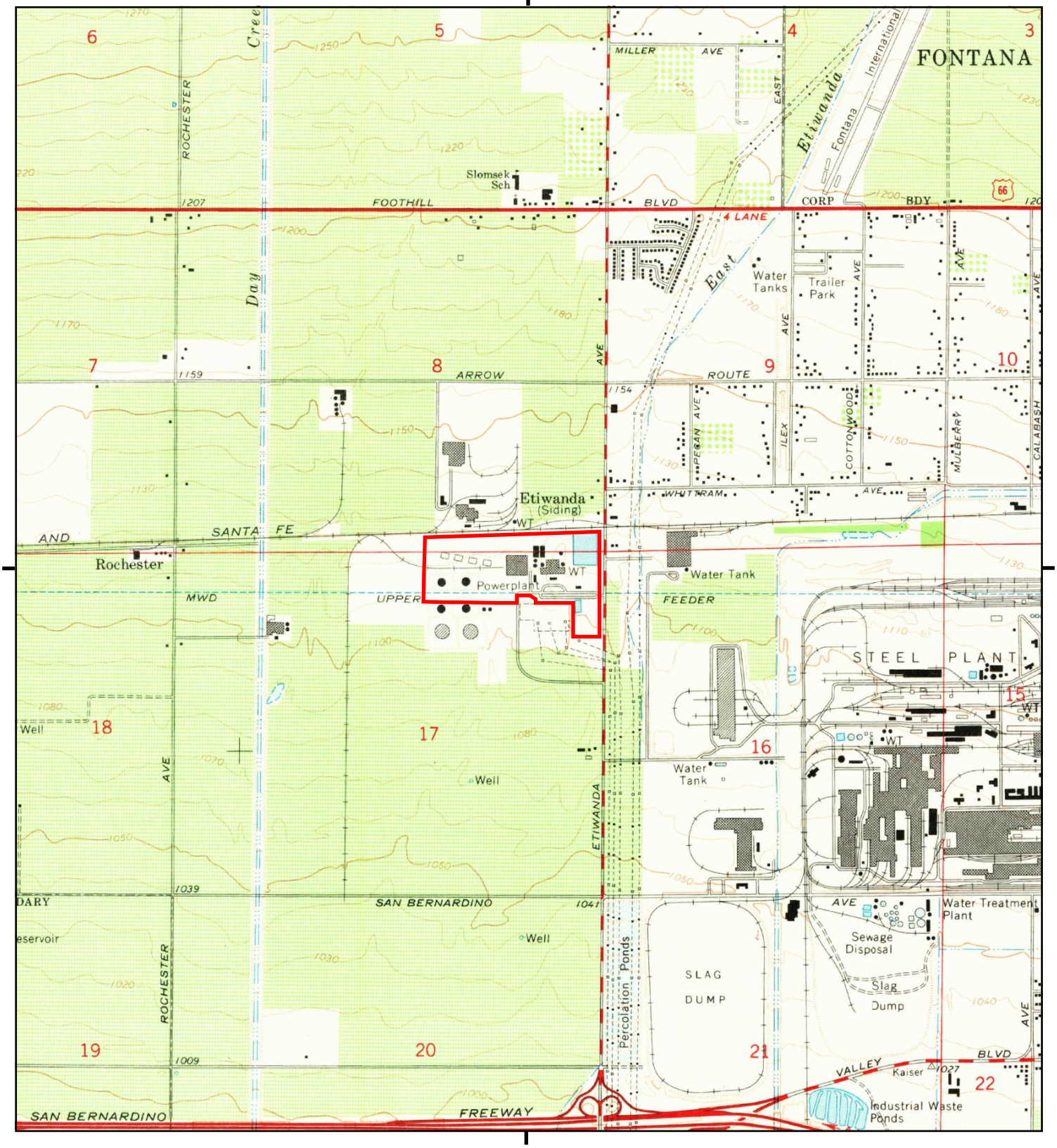
TP, Guasti, 1973, 7.5-minute

SITE NAME: APN 22928379
ADDRESS: APN 22928379
Rancho Cucamonga, CA 91739
CLIENT: Kleinfelder, Inc.

N

Historical Topo Map

1966



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

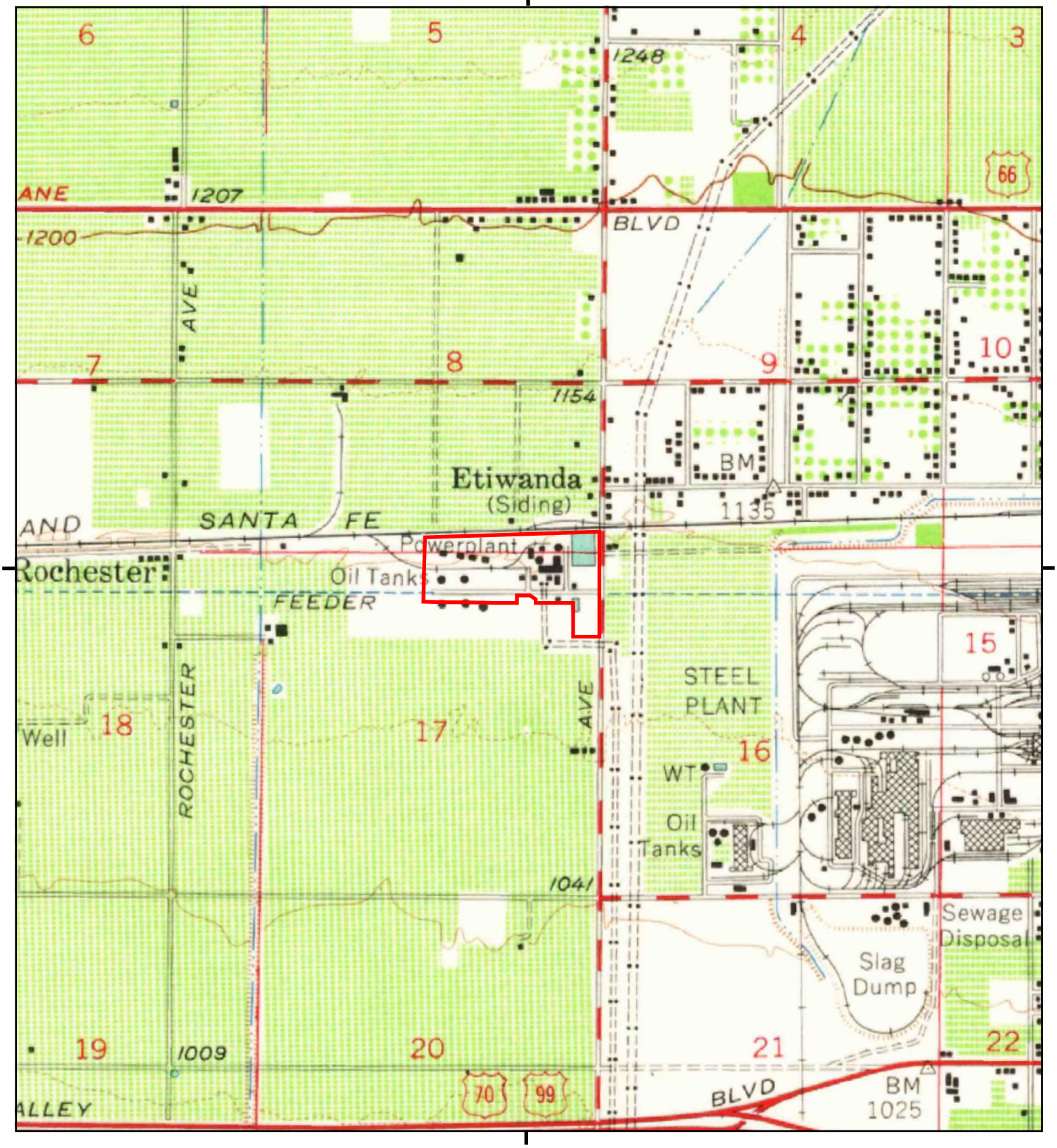
TP, Guasti, 1966, 7.5-minute

SITE NAME: APN 22928379
ADDRESS: APN 22928379
Rancho Cucamonga, CA 91739
CLIENT: Kleinfelder, Inc.

N

Historical Topo Map

1954



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

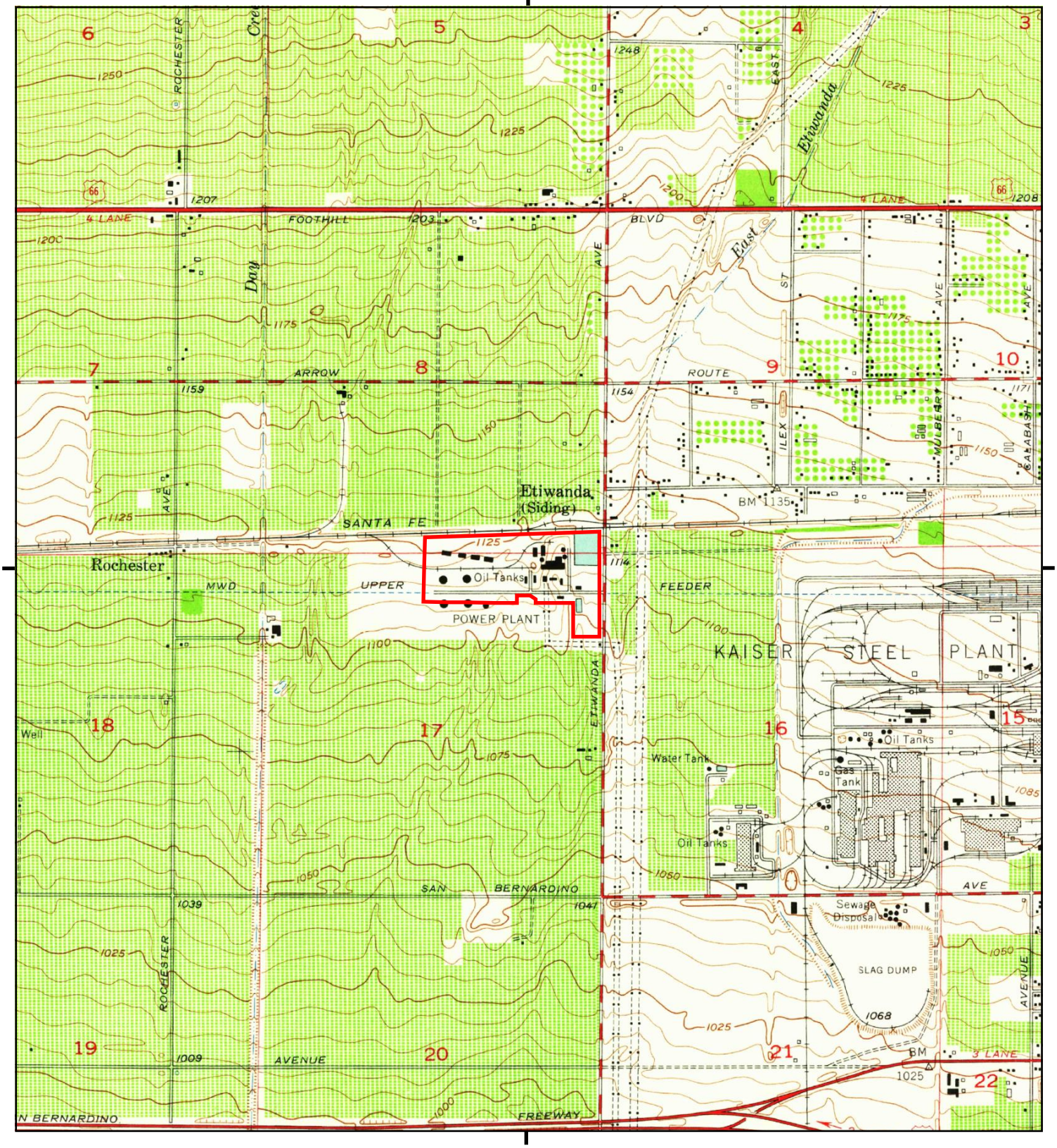
TP, Ontario, 1954, 15-minute

SITE NAME: APN 22928379
ADDRESS: APN 22928379
Rancho Cucamonga, CA 91739
CLIENT: Kleinfelder, Inc.

N

Historical Topo Map

1953



This report includes information from the following map sheet(s).

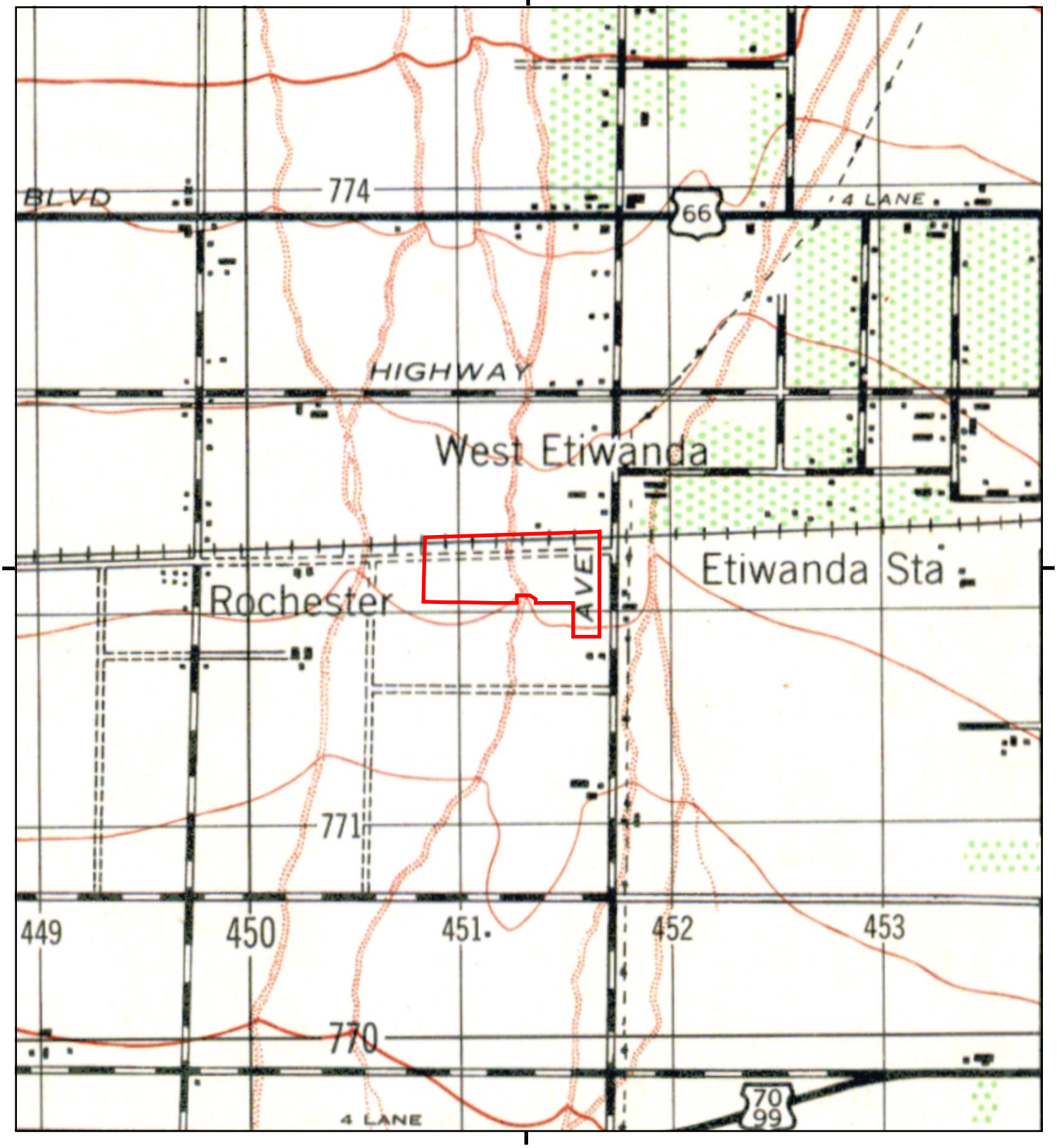
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Guasti, 1953, 7.5-minute

SITE NAME: APN 22928379
ADDRESS: APN 22928379
Rancho Cucamonga, CA 91739
CLIENT: Kleinfelder, Inc.

N



This report includes information from the following map sheet(s).

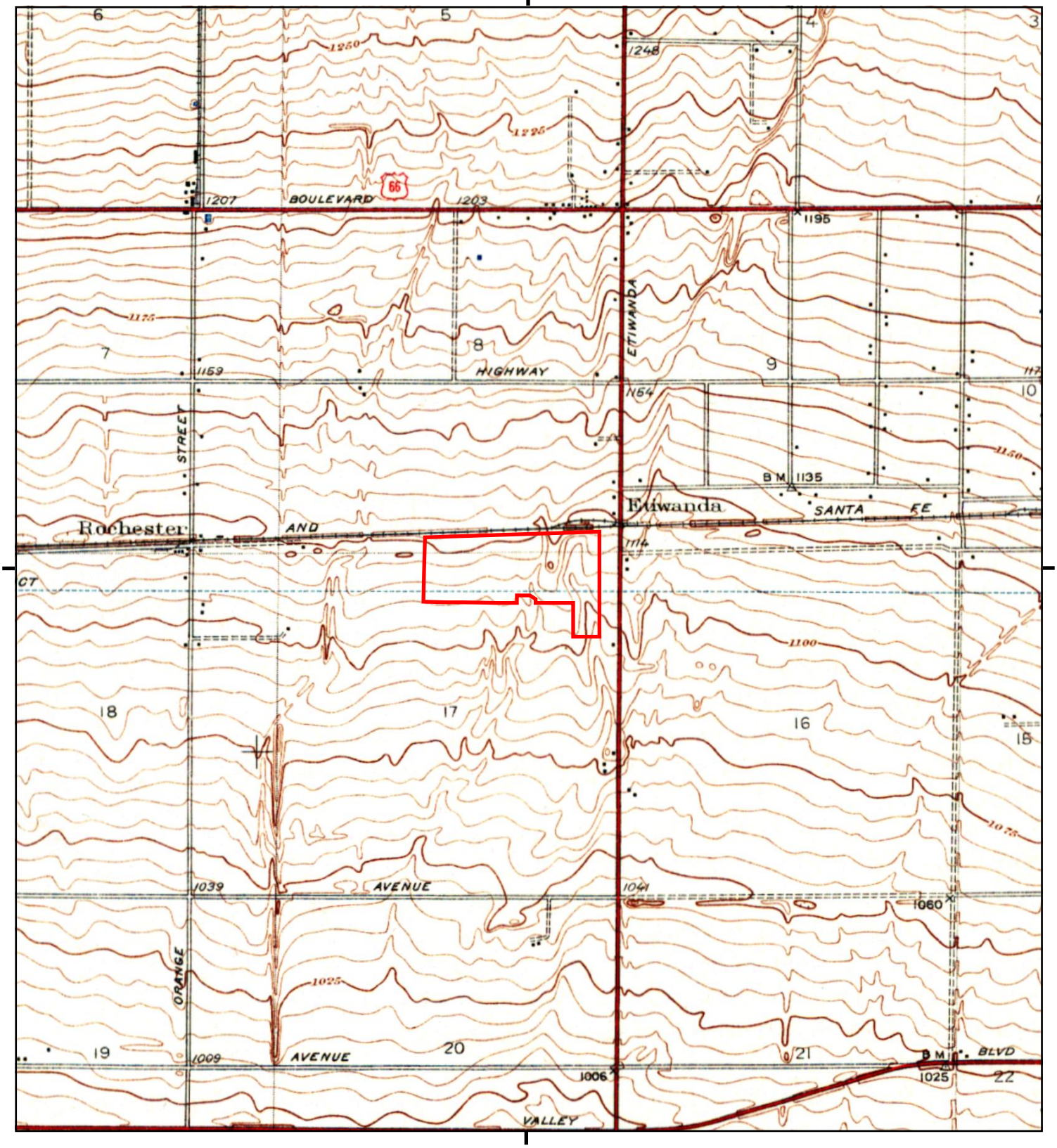
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, CUCAMONGA, 1944, 15-minute

SITE NAME: APN 22928379
ADDRESS: APN 22928379
Rancho Cucamonga, CA 91739
CLIENT: Kleinfelder, Inc.

N



This report includes information from the following map sheet(s).

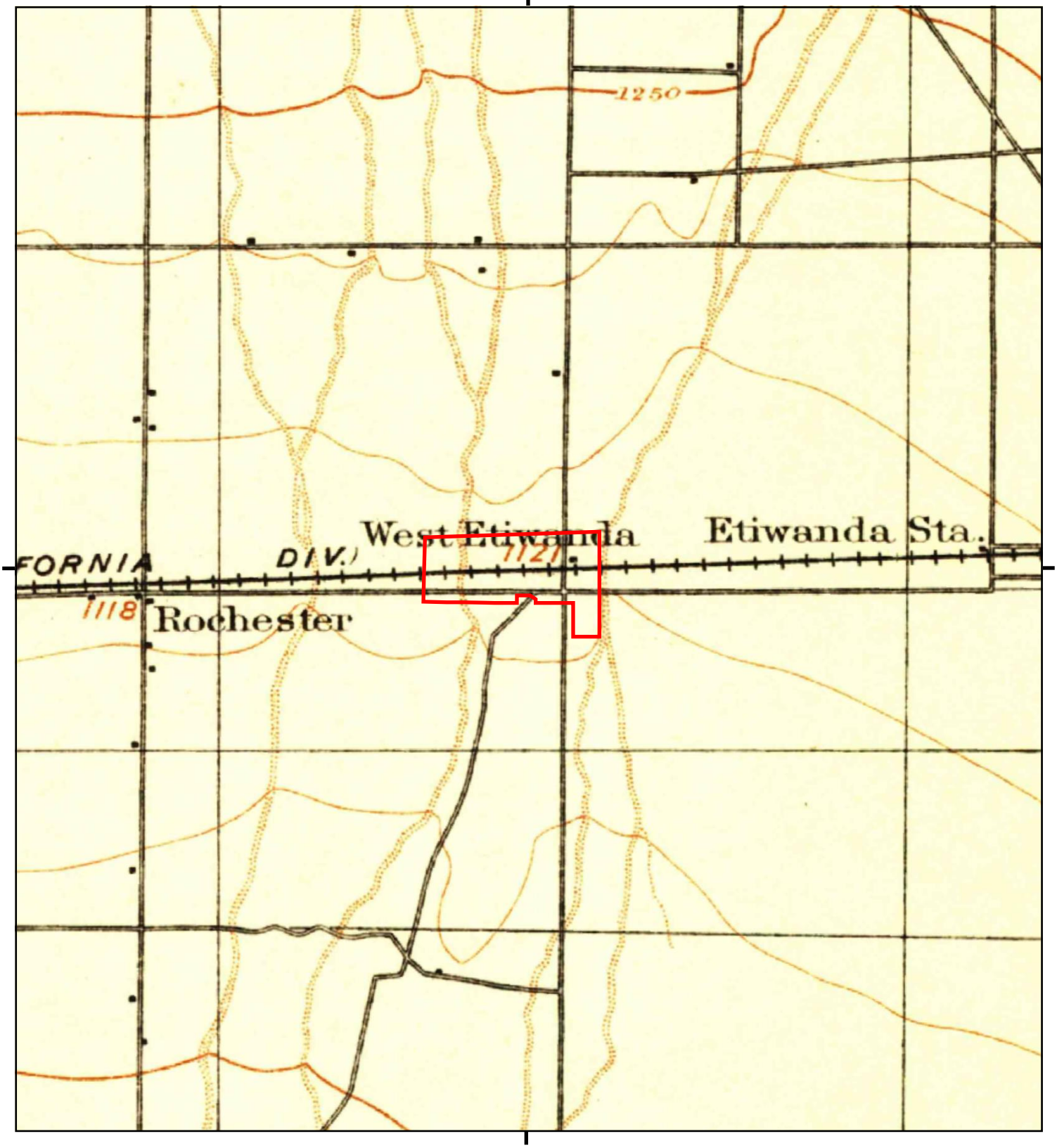
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, GUASTI VICINITY, 1941, 7.5-minute

SITE NAME: APN 22928379
ADDRESS: APN 22928379
Rancho Cucamonga, CA 91739
CLIENT: Kleinfelder, Inc.

N



This report includes information from the following map sheet(s).

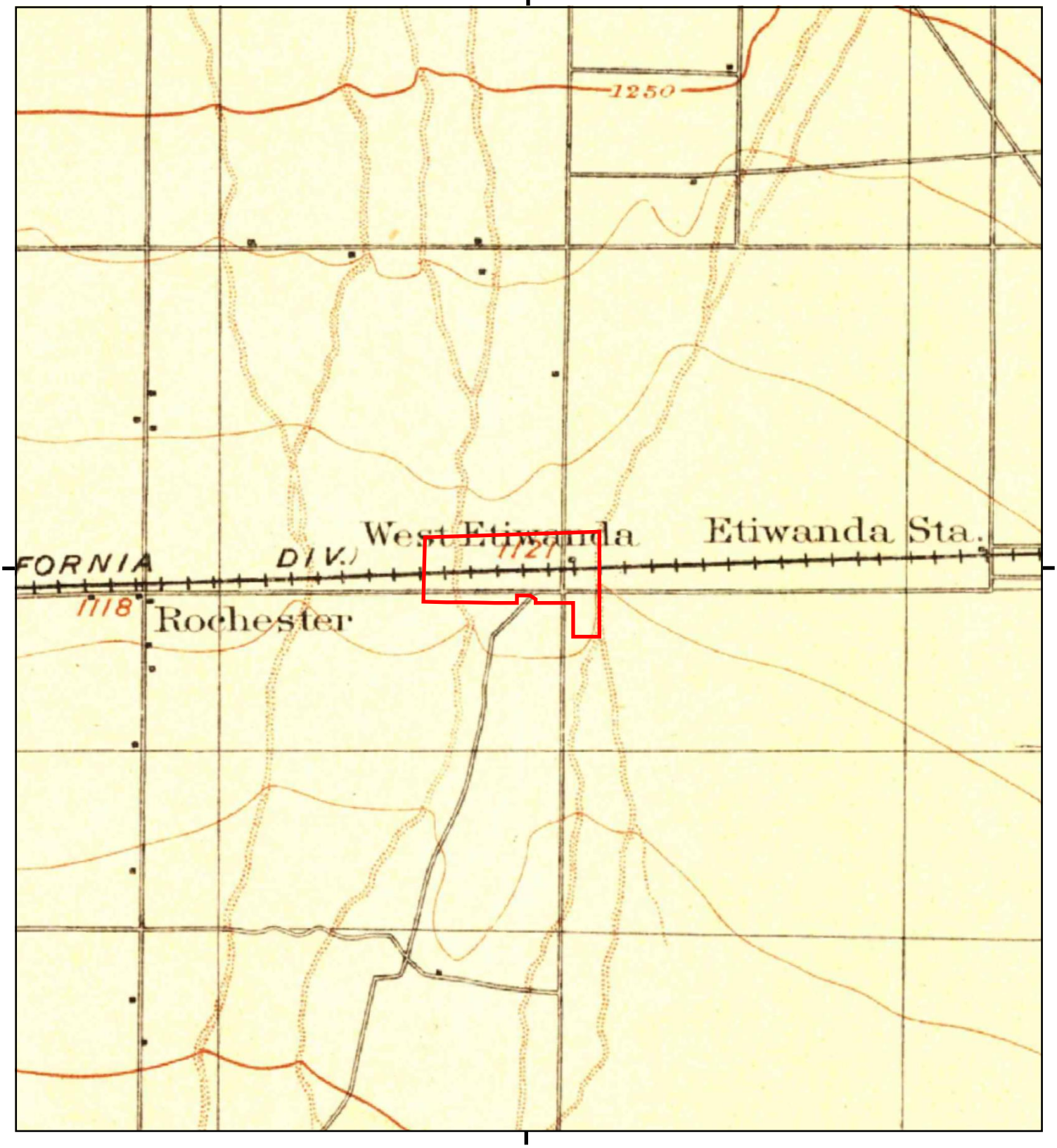
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Cucamonga, 1903, 15-minute

SITE NAME: APN 22928379
ADDRESS: APN 22928379
Rancho Cucamonga, CA 91739
CLIENT: Kleinfelder, Inc.

N



This report includes information from the following map sheet(s).

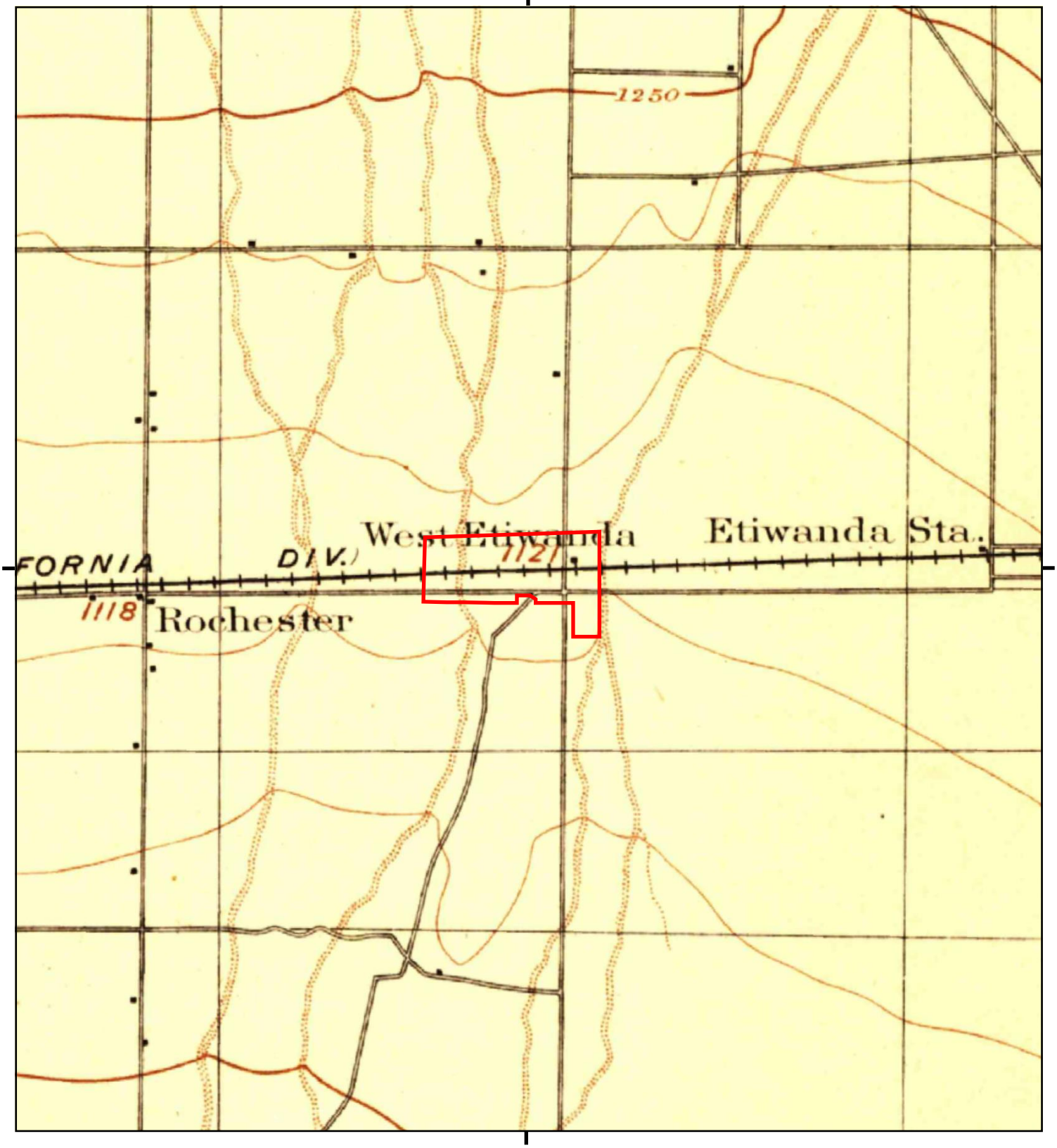
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Cucamonga, 1900, 15-minute

SITE NAME: APN 22928379
ADDRESS: APN 22928379
Rancho Cucamonga, CA 91739
CLIENT: Kleinfelder, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Cucamonga, 1897, 15-minute

SITE NAME: APN 22928379
ADDRESS: APN 22928379
Rancho Cucamonga, CA 91739
CLIENT: Kleinfelder, Inc.

N

APN 22928379
APN 22928379
Rancho Cucamonga, CA 91739

Inquiry Number: 7435504.8
September 05, 2023

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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About This Report

Executive Summary

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E1527 - 21 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of Kleinfelder, Inc. on Sep 05, 2023.

TARGET PROPERTY

APN 22928379
Rancho Cucamonga, CA 91739

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **NO PERMITS IDENTIFIED**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Name: JurisdictionName
Years: Years
Source: Source
Phone: Phone

BUILDING DEPARTMENT RECORDS SEARCHED

Name: San Bernardino County
Years: 1970-2023
Source: San Bernardino County, Land Use, Building & Safety, ONTARIO, CA
Phone: (909) 387-8311

Name: Rancho Cucamonga
Years: 2002-2023
Source: City of Rancho Cucamonga, Building & Safety Dept., Rancho Cucamonga, CA
Phone: (909) 477-2710

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

APN 22928379
Rancho Cucamonga, CA 91739

No Permits Found

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Permits Found

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use (s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

APPENDIX E
HISTORICAL SITE INVESTIGATION FIGURES

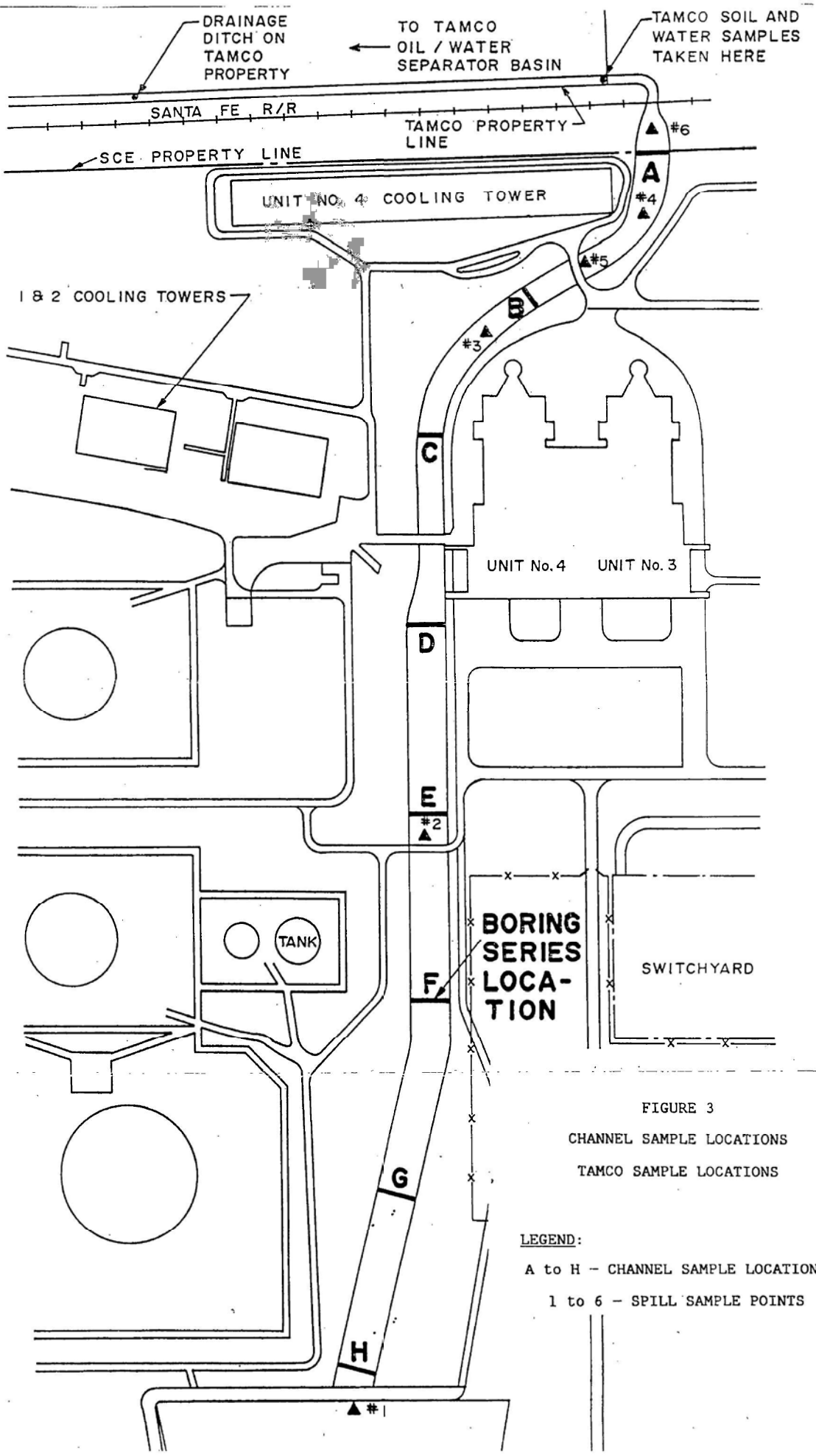


FIGURE 3

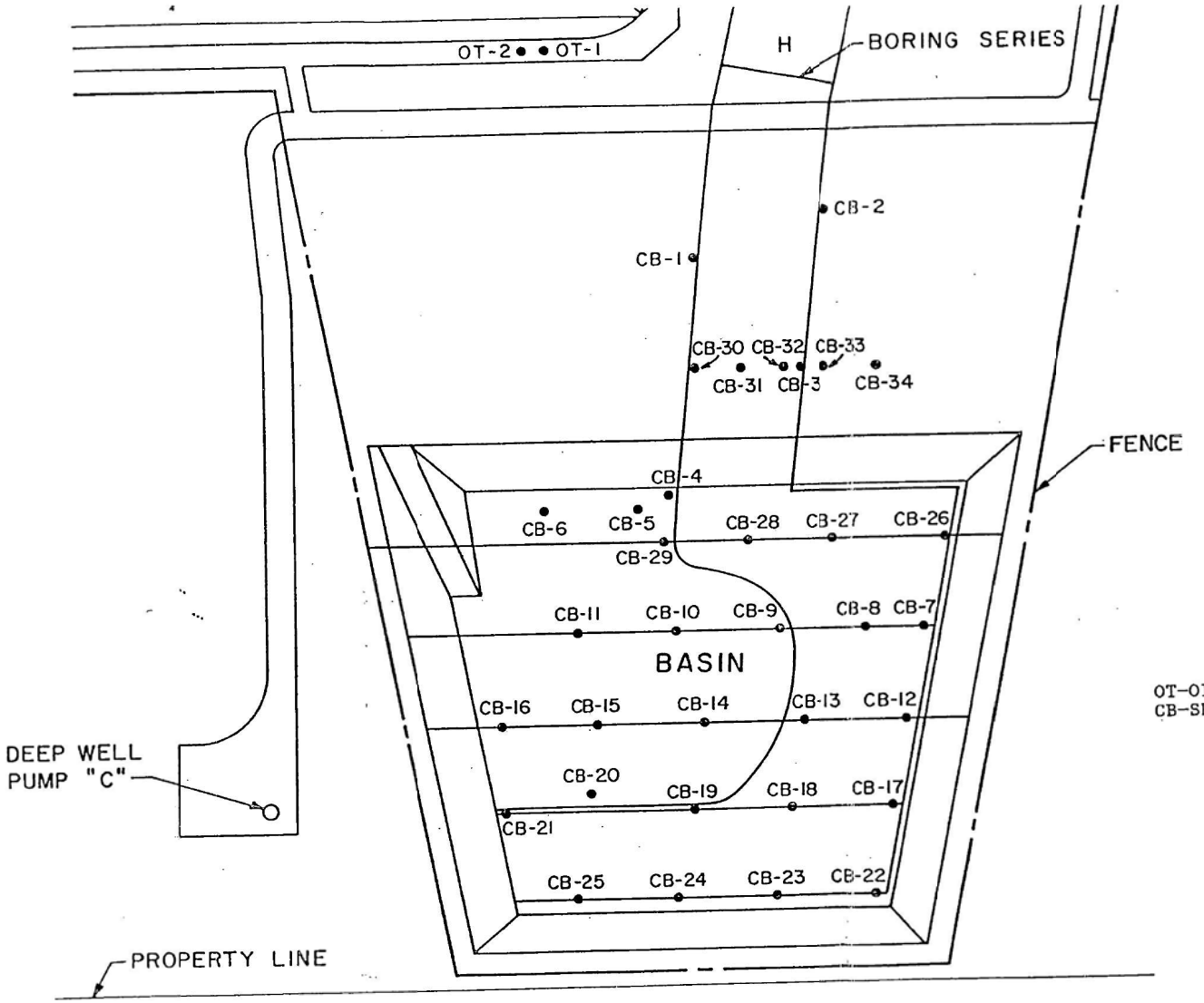
CHANNEL SAMPLE LOCATIONS

TAMCO SAMPLE LOCATIONS

LEGEND:

A to H – CHANNEL SAMPLE LOCATIONS

1 to 6 – SPILL SAMPLE POINTS



LEGEND:

OT–OIL TANK SAMPLE POINTS
CB–SPREADING BASIN SAMPLE POINTS

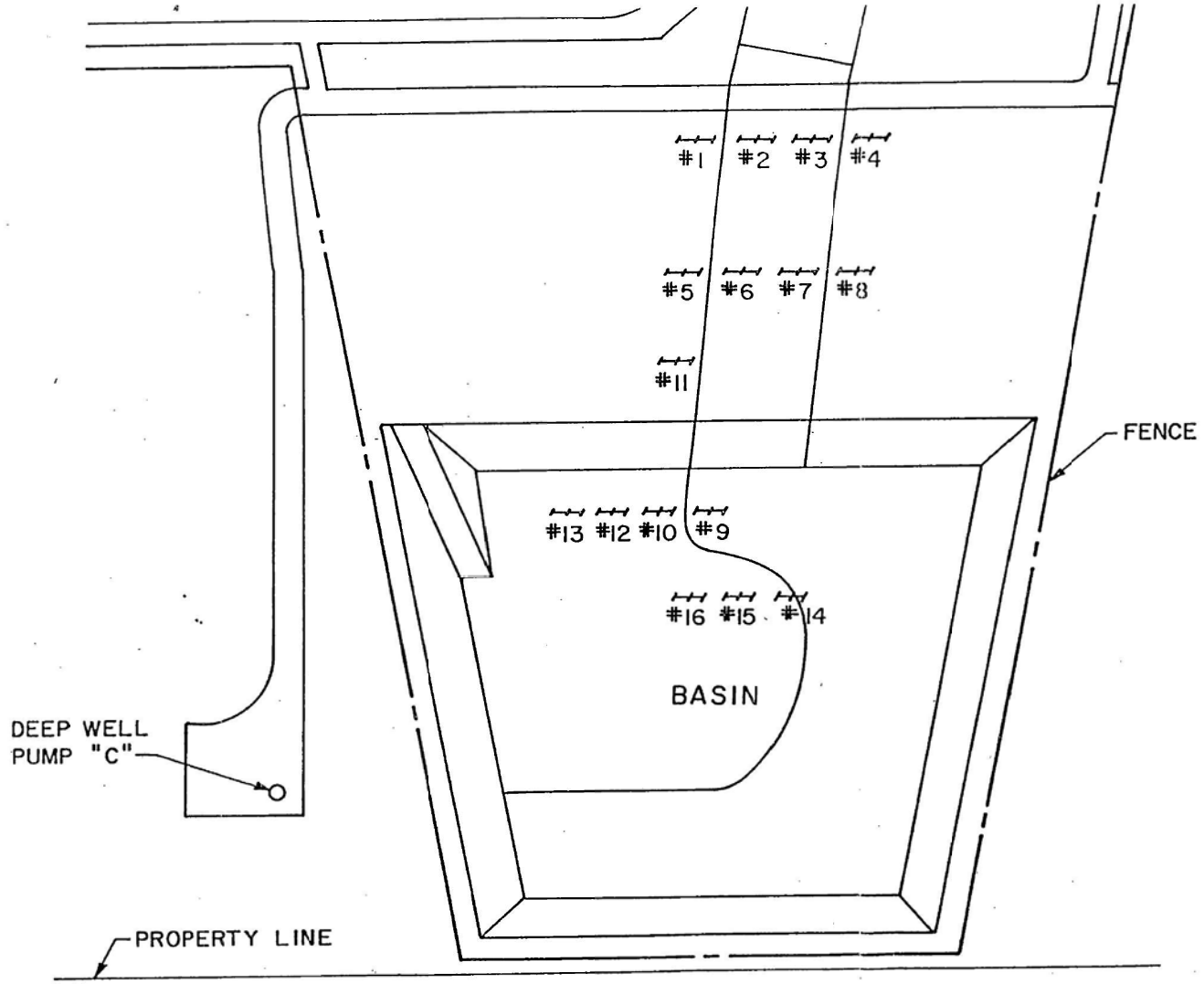
GRAPHIC SCALE

0 100 200 300 400 500 600

FIGURE 4

SPREADING BASIN SAMPLE LOCATIONS

OIL TANK SAMPLE LOCATIONS



GRAPHIC SCALE

0 100 200 300 400 500 600

LEGEND:

⊢⊣ – BACKHOE SAMPLE POINTS

FIGURE 5

BACKHOE SAMPLE LOCATIONS

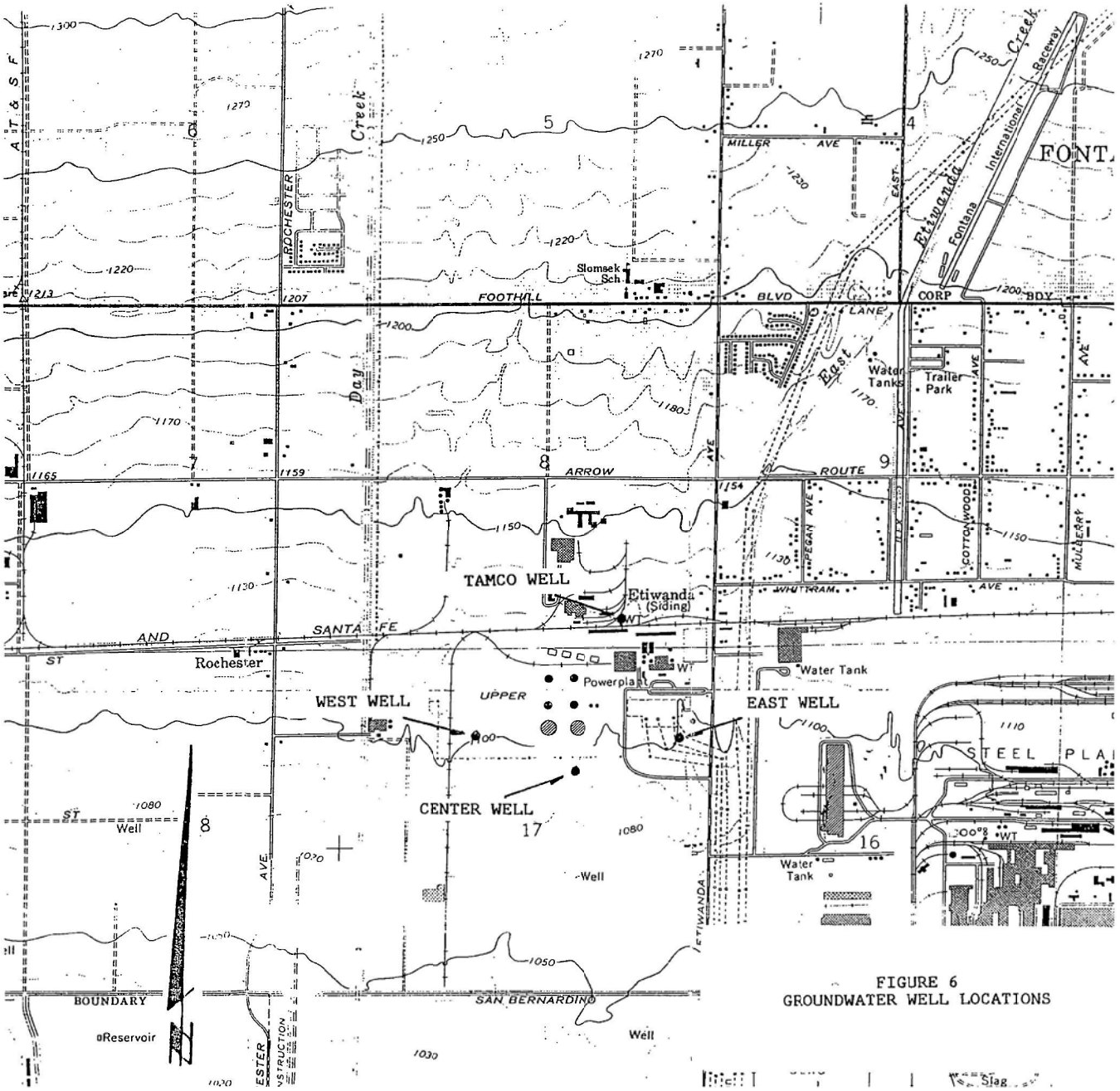
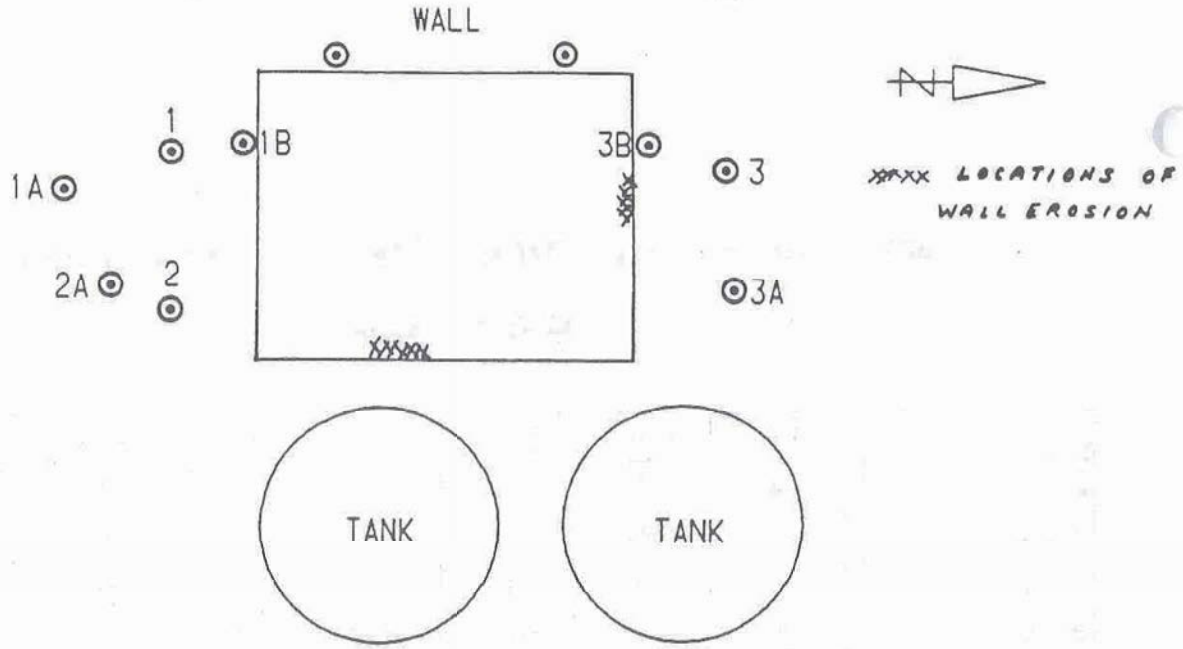
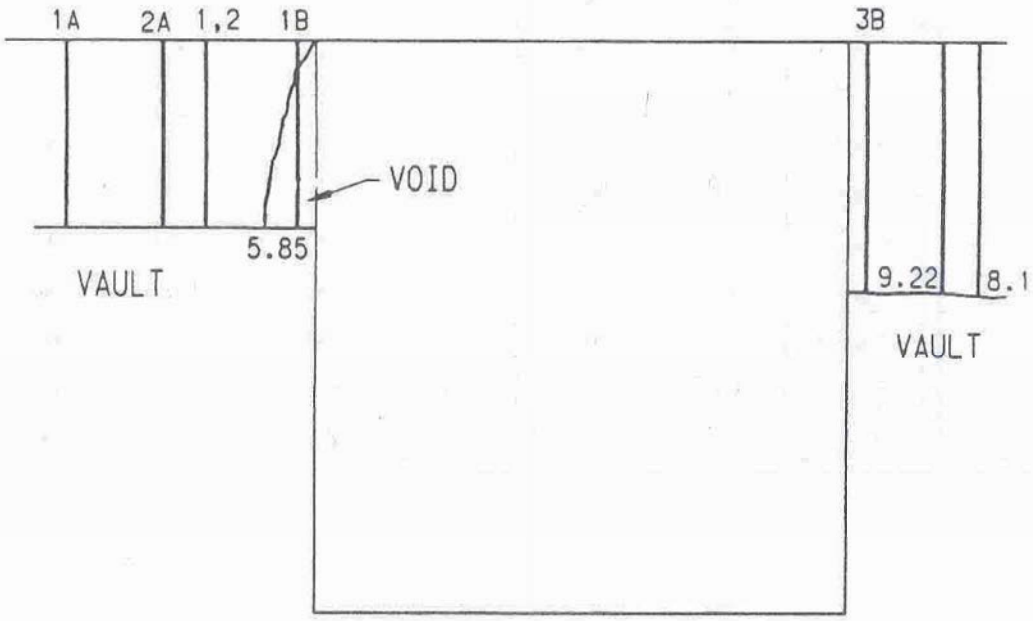


FIGURE 6
GROUNDWATER WELL LOCATIONS



PLAN VIEW
1"=4'



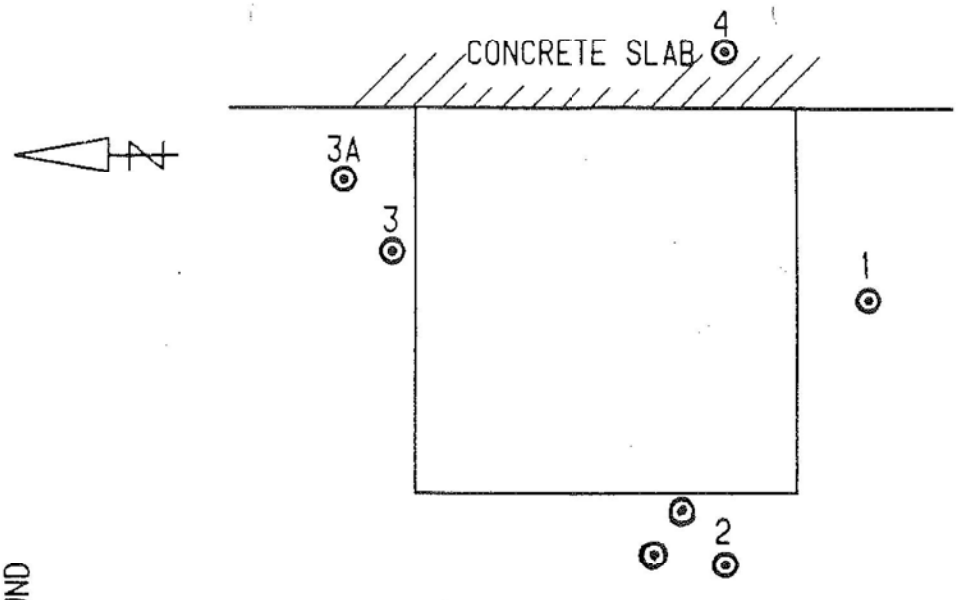
SECTION VIEW
1"=3'

ALAMITOS GENERATING STATION

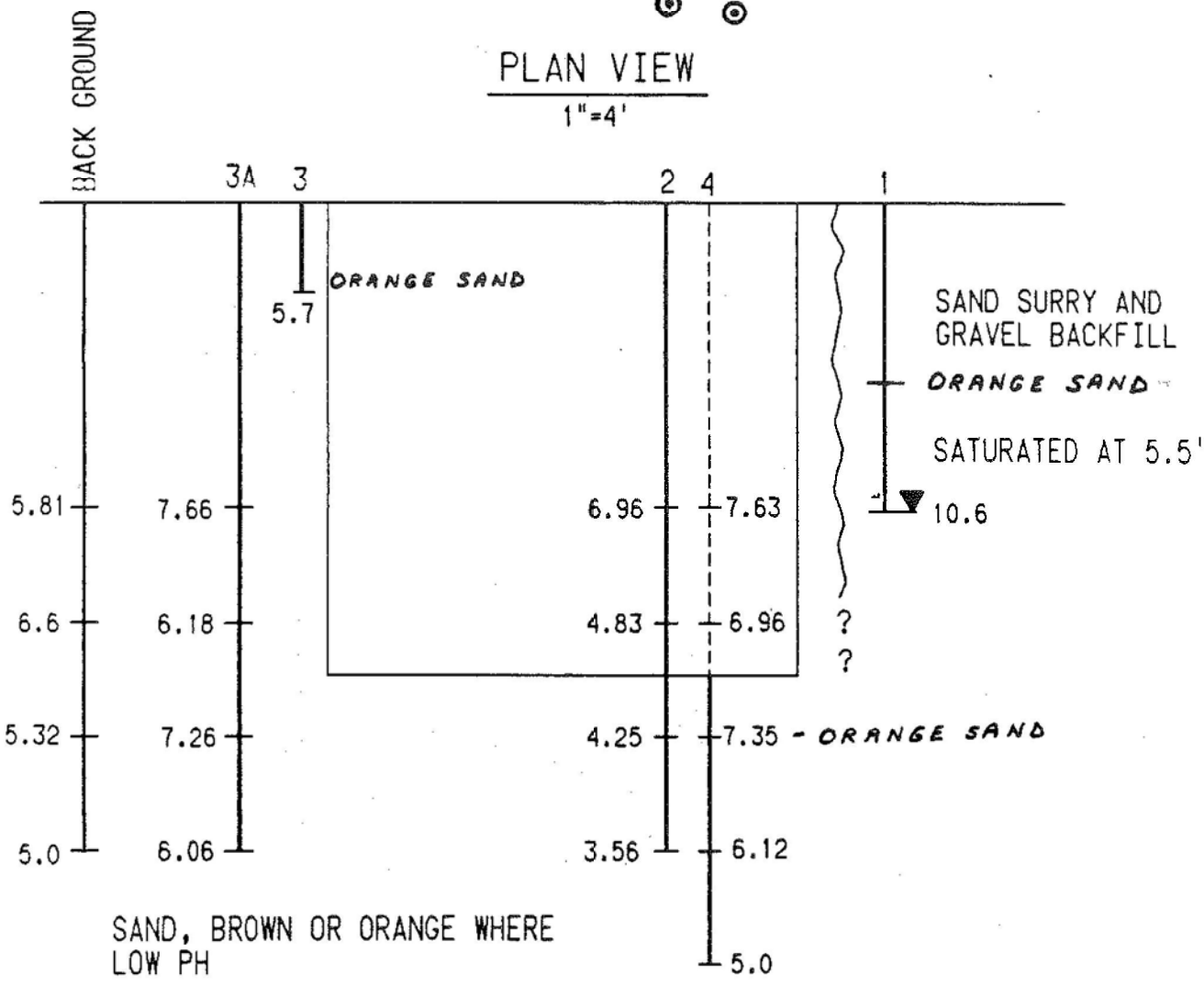
POLISHING SUMP

FIGURE 1

SUMPSK2



PLAN VIEW
1"=4'



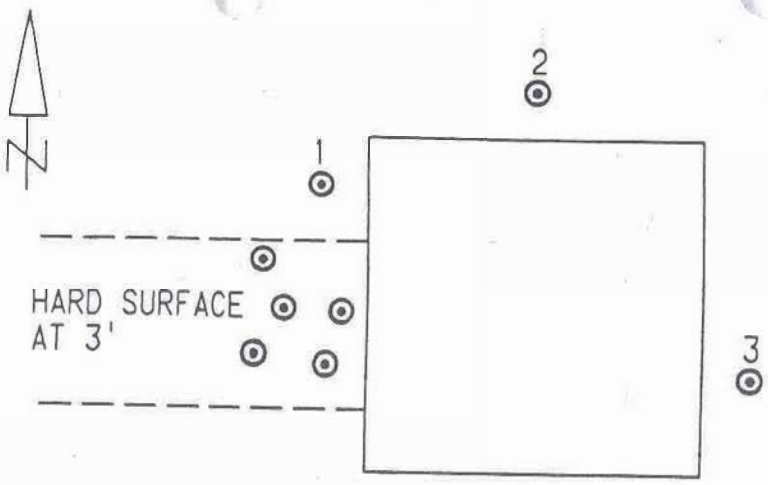
SECTION VIEW
1"=3'

ELSEGUNDO GENERATING STATION

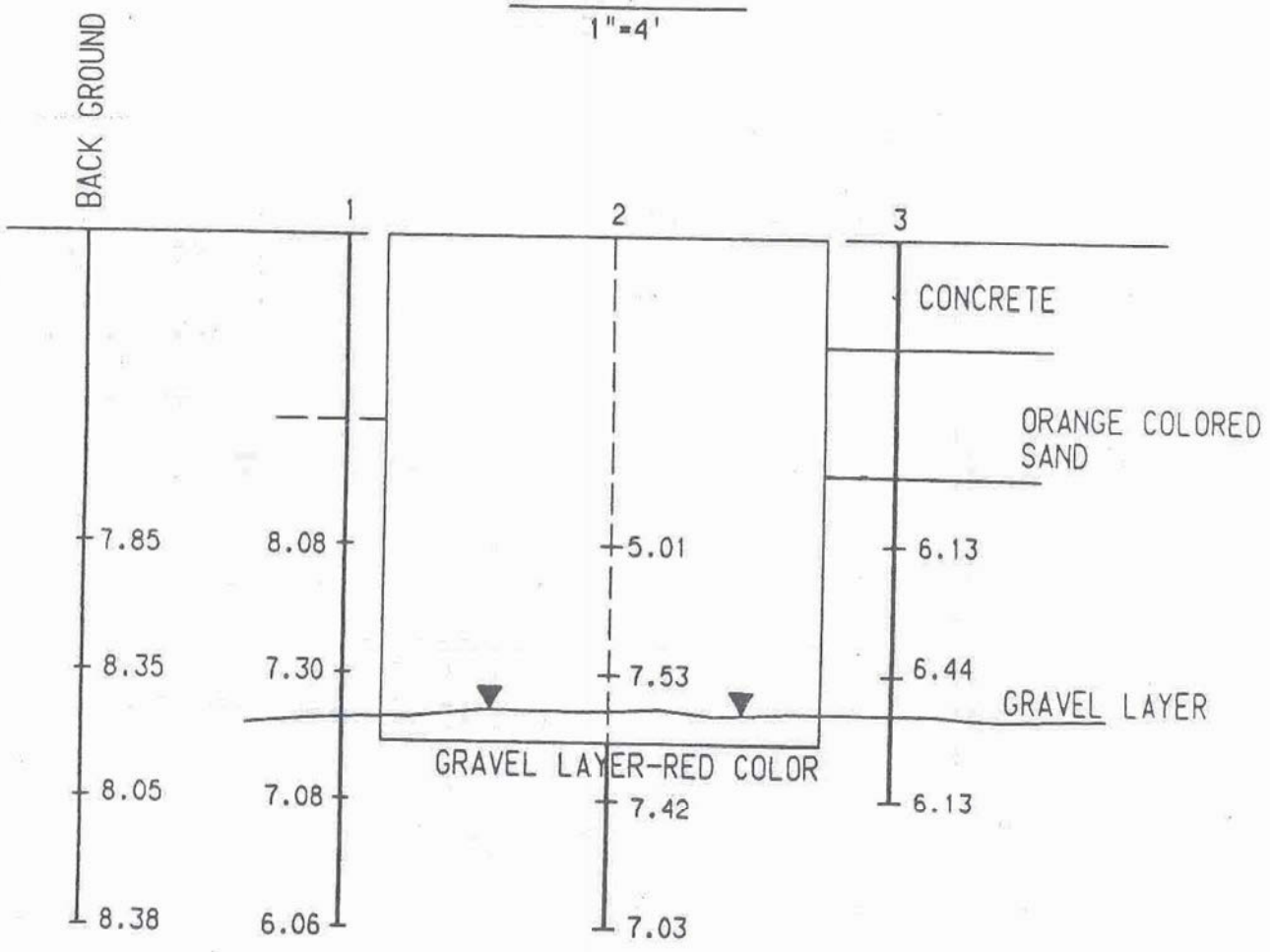
DEMINERALIZER SUMP

FIGURE 4

SUMPSK2



PLAN VIEW
1"=4'

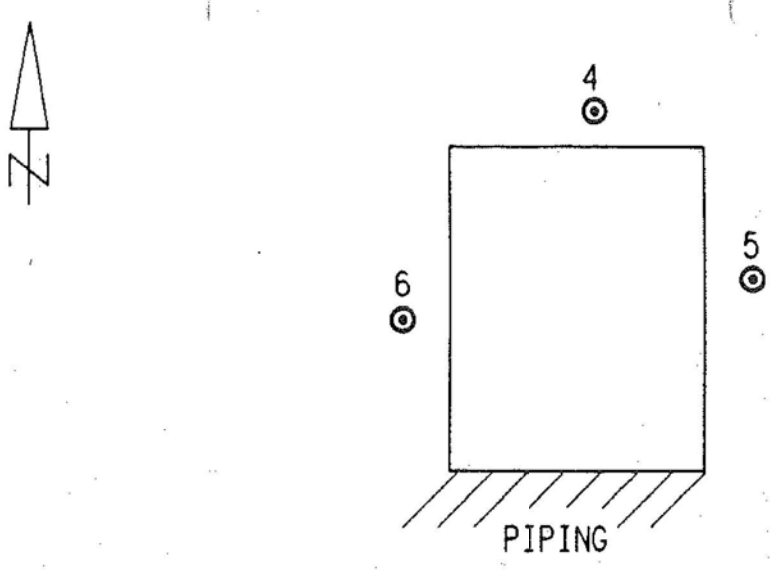


SECTION VIEW
1"=3'

ORMOND BEACH GENERATING STATION

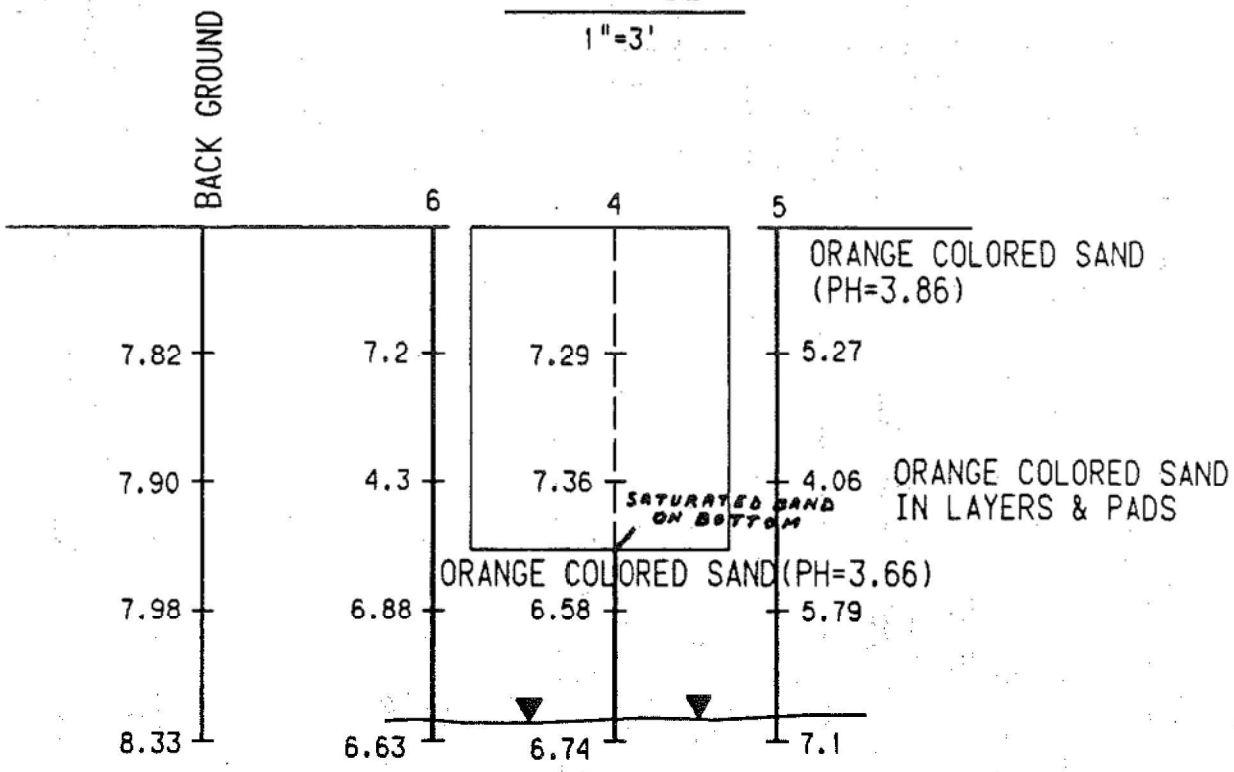
POLISHING SUMP
FIGURE 8

SUMPSK2



PLAN VIEW

1"=3'



SECTION VIEW

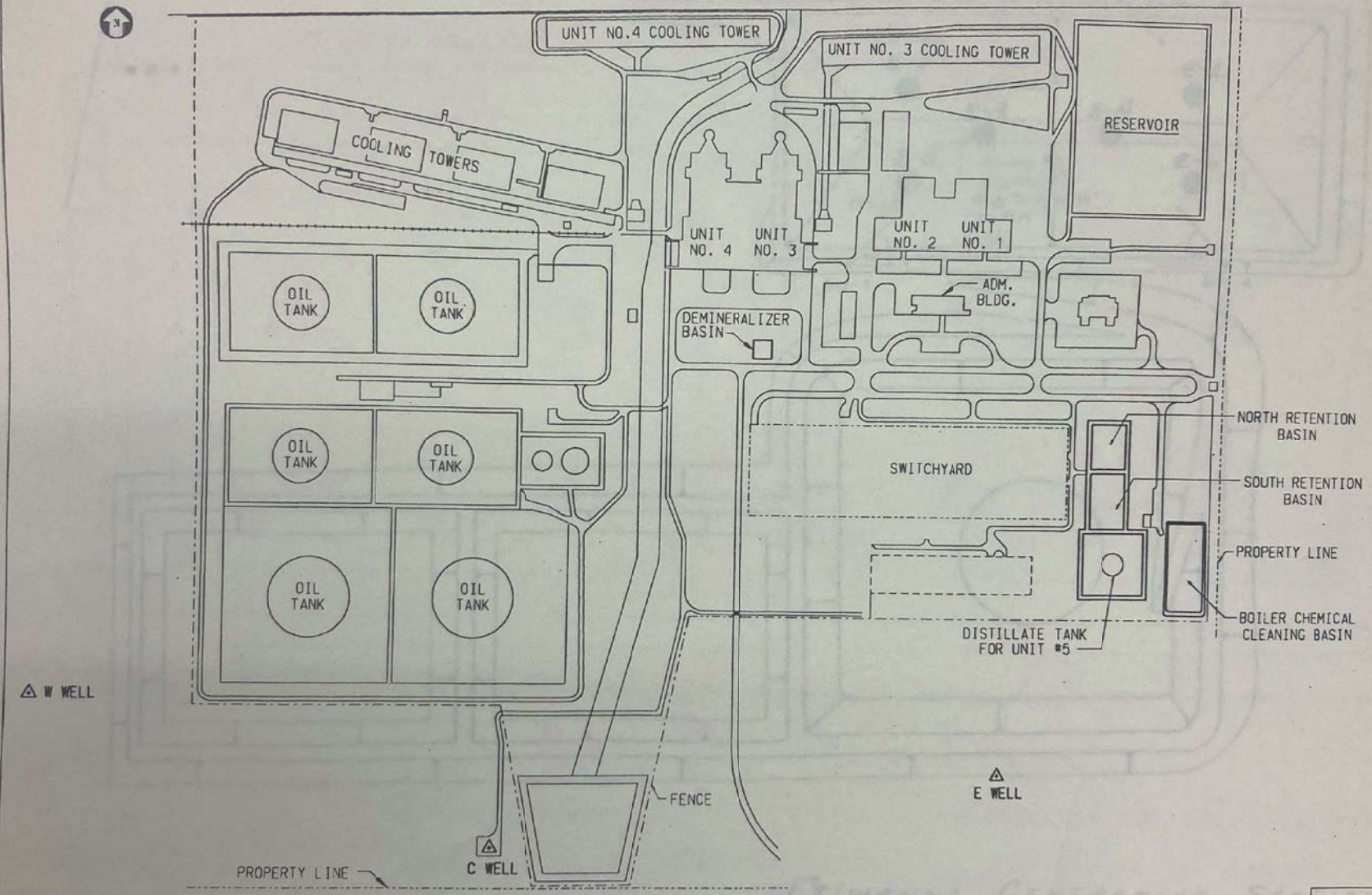
1"=3'

ORMOND BEACH GENERATING STATION

DEMINERALIZER SUMP

FIGURE 9

SUMPSK2

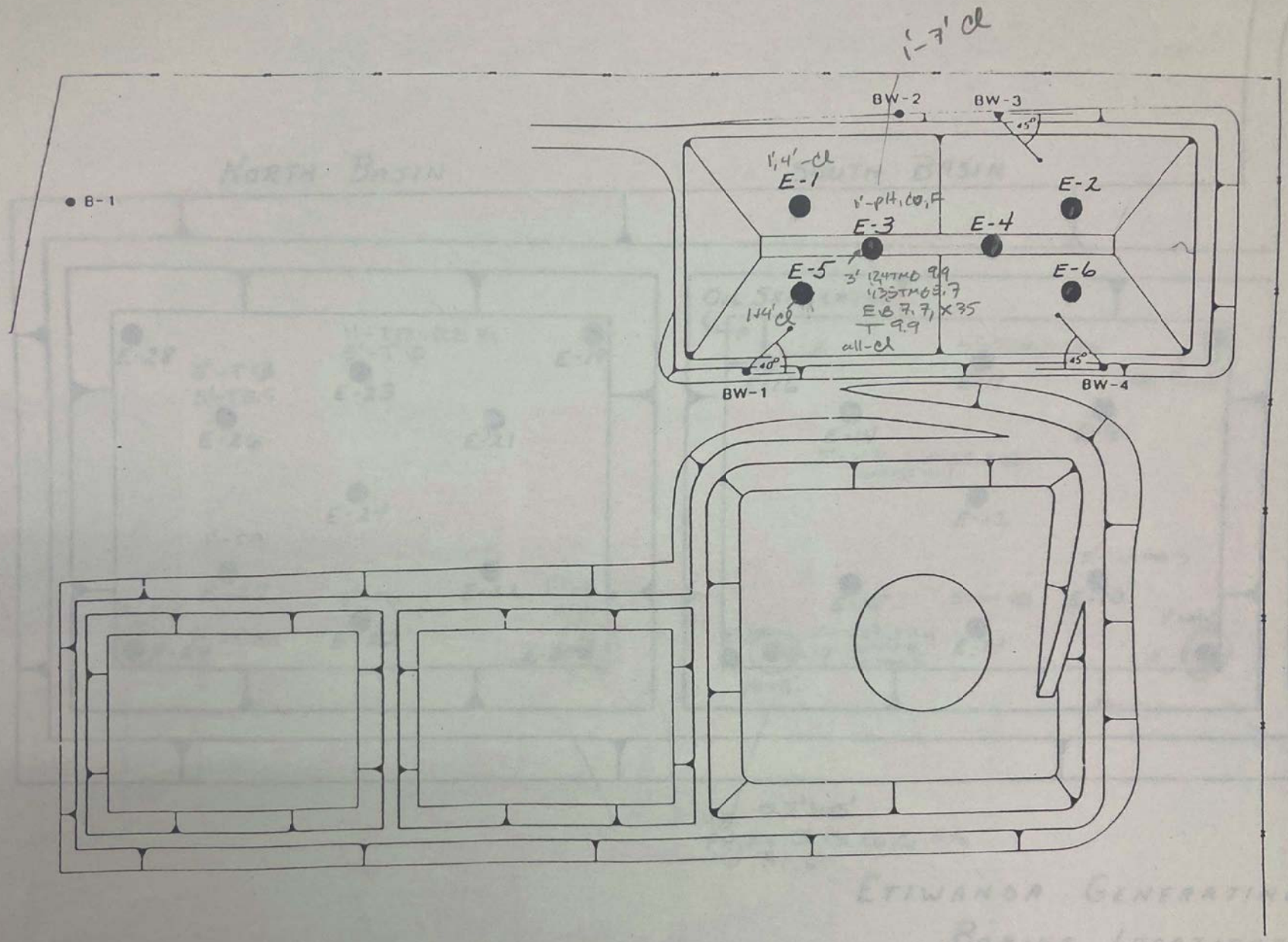


ETIWANDA GENERATING STATION

LOCATION OF BASINS

FIGURE 1

MONIWEL2



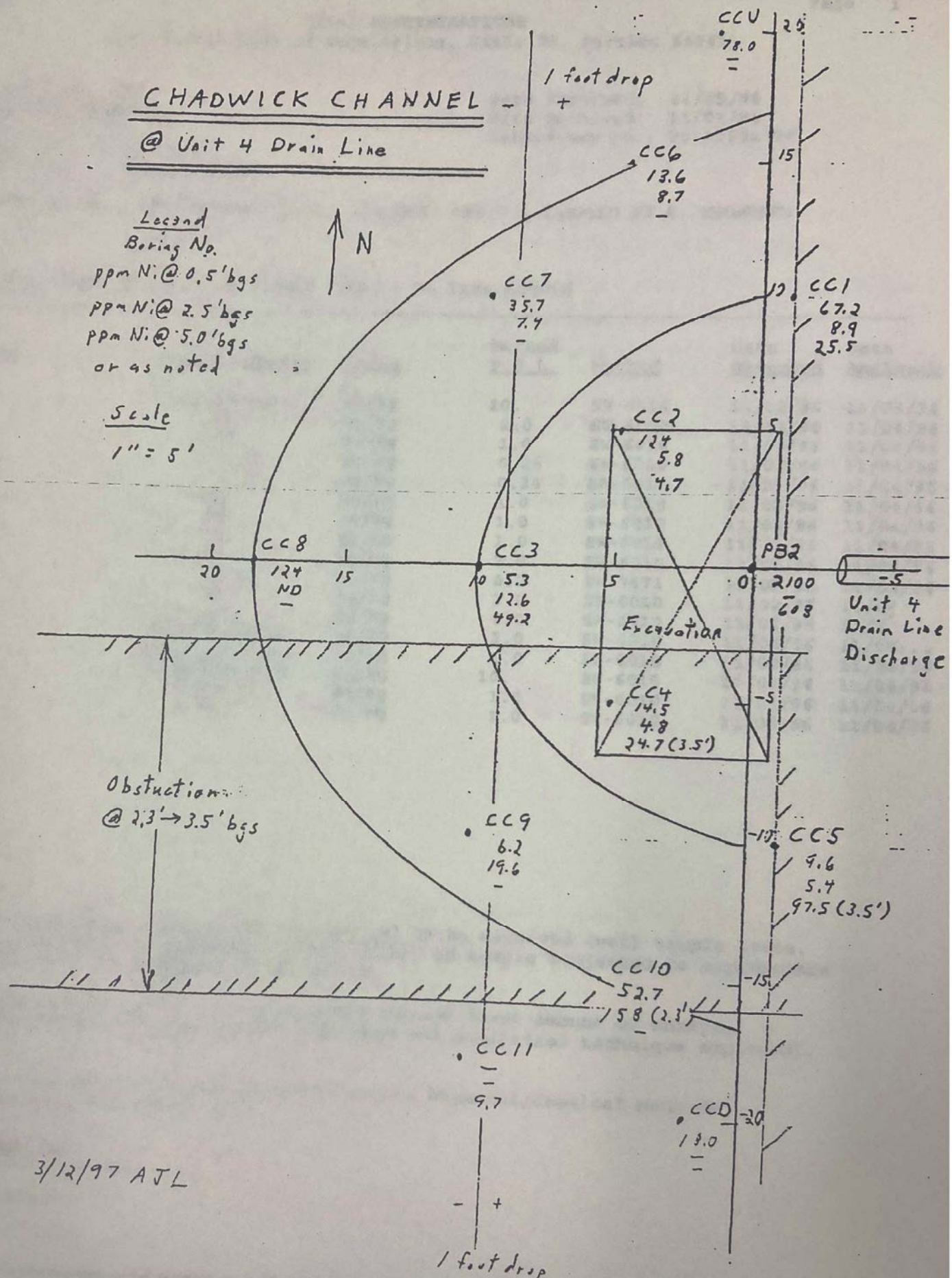
ETIWANDA GENERATING STATION

BORING LOCATIONS

BOILER CHEMICAL CLEANING BASIN

FIGURE 2

FIGURE 1

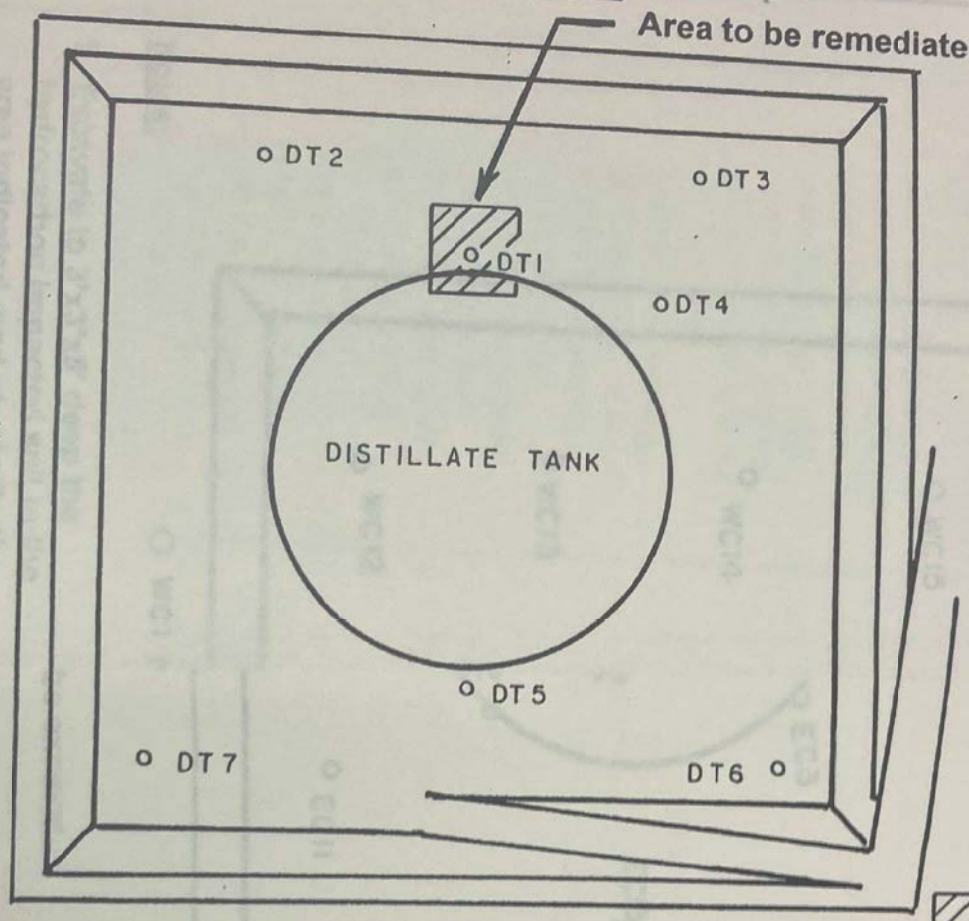


3/12/97 AJL

Reference Report:
Addendum No. 1
Baseline Environmental Study
Southeast, Southwest and Distillate Tanks
Etiwanda Generating Station
November 10, 1997

Notes:

1. Excavate to 3'x3'x5' deep the hydrocarbon impacted soil in the area indicated, and stockpile the soil on plastic sheeting prior to disposal.
2. Inform Zaid Ahmad, @ PAX 28720, at least 24 hours in advance for verification sampling and testing.
3. Backfilling of the excavated area shall be done, following the verification process and test results, with clean, granular engineered fill, placed and compacted in accordance with SCE standard specifications.
4. Disposal of all affected soil should be per the current applicable regulatory agency guidelines and per verification sampling test results.



DT1 - SAMPLE LOCATION

Area to be excavated

ETIWANDA GENERATING STATION

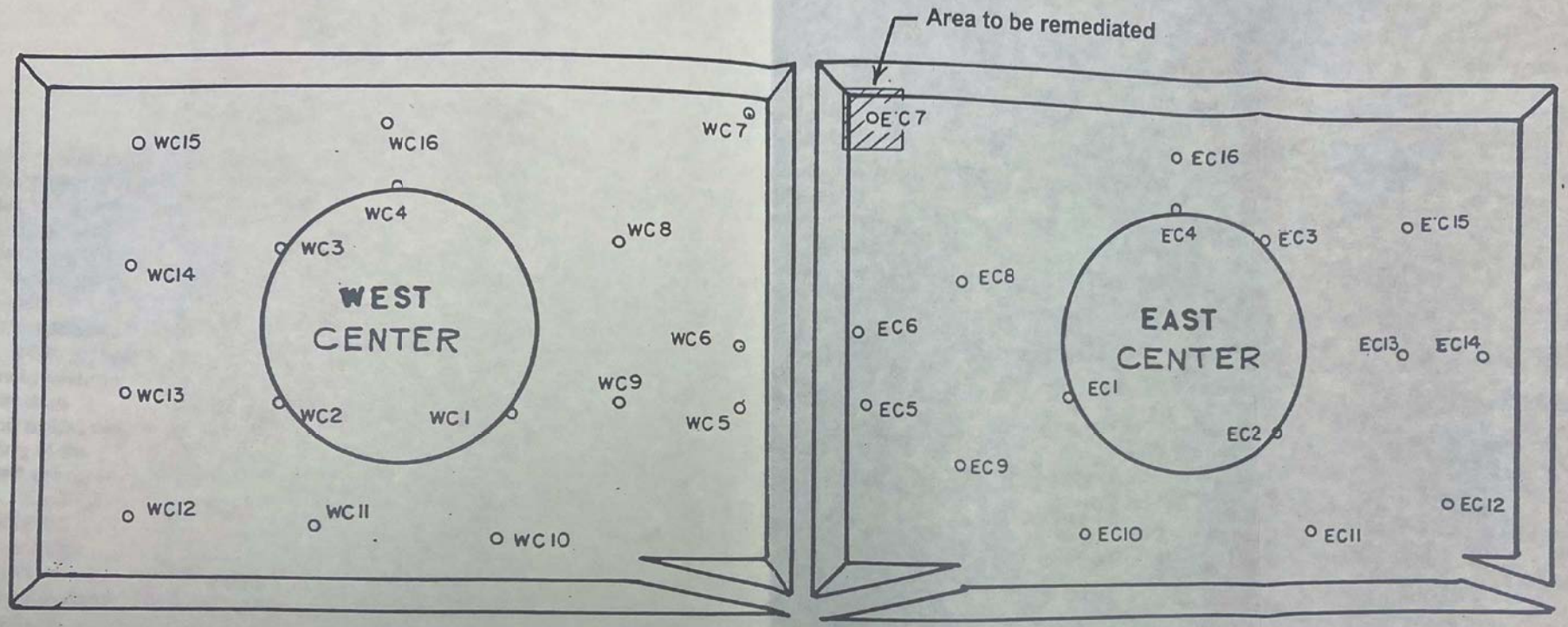
SCALE: N.T.S.	APPROVED BY:	DRAWN BY dcm
DATE: 2/23/98		REVISED

SOIL REMEDIATION PLAN

DRAWING NUMBER
FIGURE 1

8½ X 11 PRINTED ON NO. 1000H CLEARPRINT ®

rence Report: Baseline Environmental Study
West Center and East Center
Etiwanda Generating Station
December 29, 1997



○ WC1 or EC1-SAMPLE LOCATION

— Area to be excavated

es:

Excavate to 3'x3'x5' deep the
ydrocarbon impacted soil in the
area indicated, and stockpile the
soil on plastic sheeting prior to
disposal.
nform Zaid Ahmad, @ PAX 28720,
t least 24 hours in advance for
erification sampling and testing.

3. Backfilling of the excavated area shall be done, following the verification process and test results, with clean, granular engineered fill, placed and compacted in accordance with SCE standard specifications.
4. Disposal of all affected soil should be per the current applicable regulatory agency guidelines and per verification sampling test results.

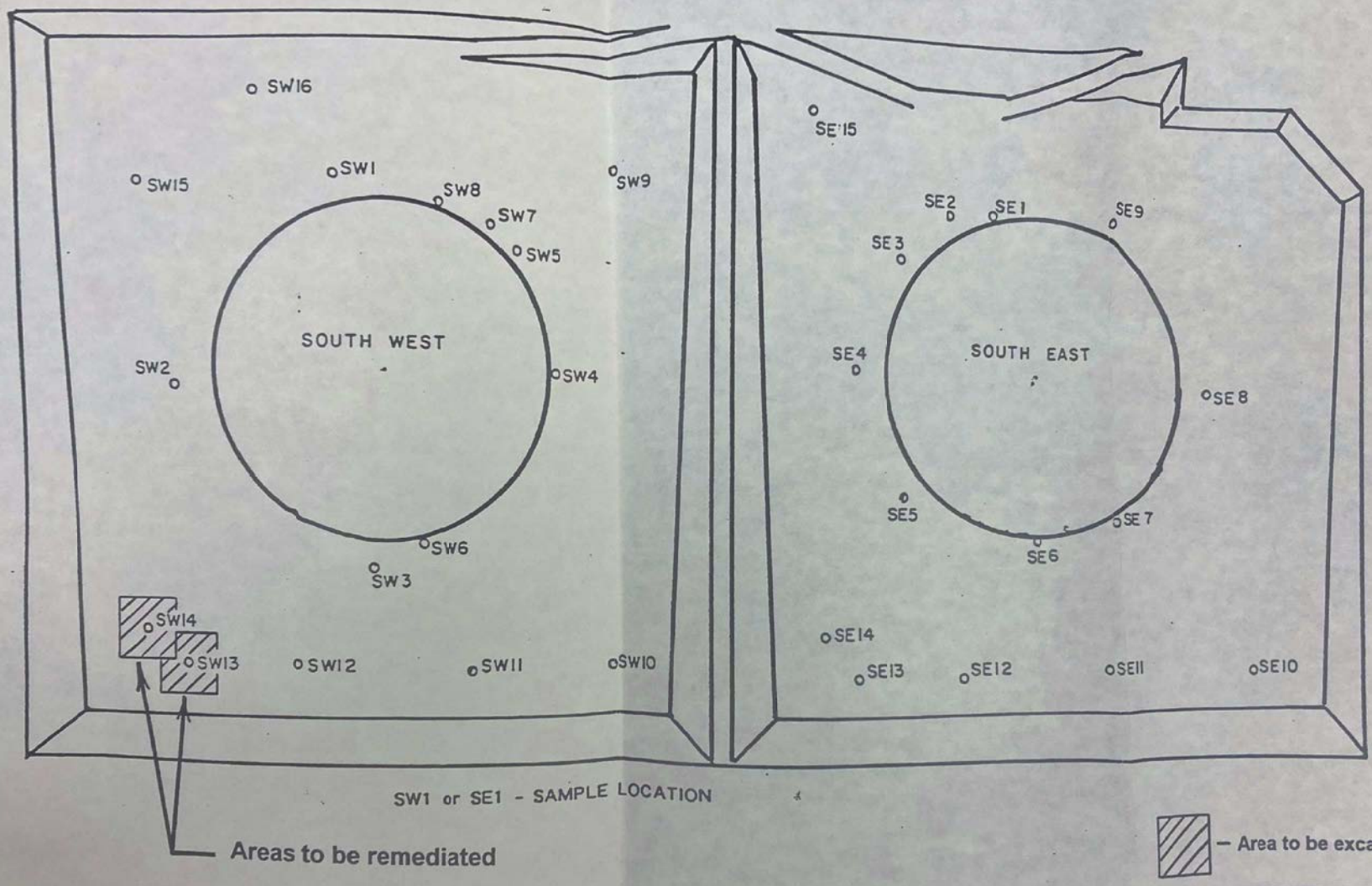
ETIWANDA GENERATING STATION

SCALE: ≈ 1" = 50'	APPROVED BY:	DRAWN BY dcm
DATE: 2/23/98		REVISED

SOIL REMEDIATION PLAN

DRAWING NUMBER FIGURE 2

vate to 3'x3'x1'-6"
the hydrocarbon
acted soil in the
indicated, and
kpile the soil on
tic sheeting prior
isposal.
rm Zaid Ahmad,
AX 28720, at least
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verification
pling and testing.
kfilling of the
avated area shall
one, following
verification
ess and test
lts, with clean,
ular engineered
placed and
pacted in
rdance with SCE
dard
ifications.
osal of all
ted soil should
er the current
icable regulatory
cy guidelines
per verification
pling test results.



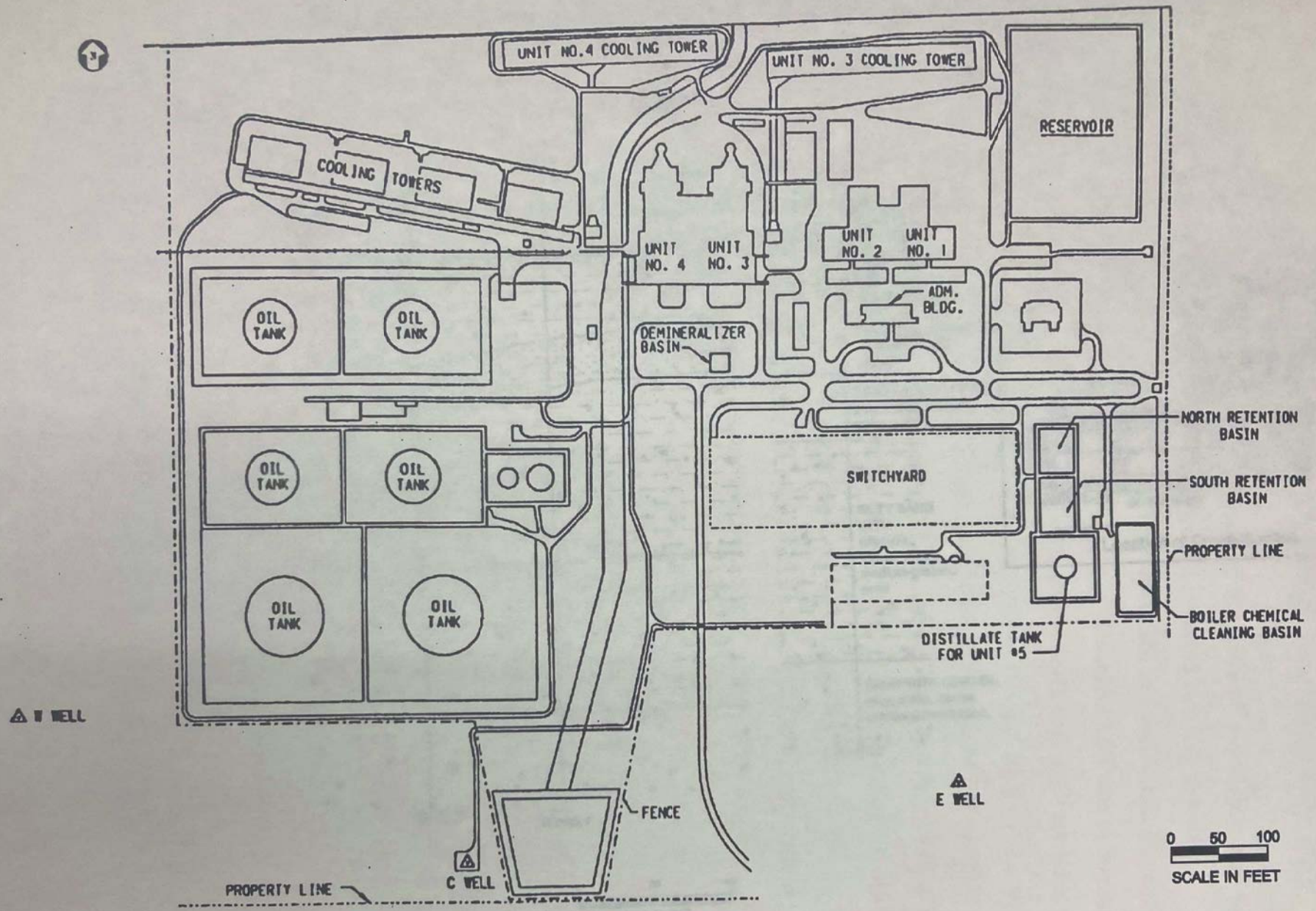
Reference Report: Addendum No. 1
Baseline Environmental Study
Southeast, Southwest and Distillate Tanks
Etiwanda Generating Station
November 10, 1997

ETIWANDA GENERATING STATION

SCALE: ≈ 1" = 80'	APPROVED BY:	DRAWN BY dcm
DATE: 2/23/98		REVISED

SOIL REMEDIATION PLAN

DRAWING NUMBER FIGURE 3

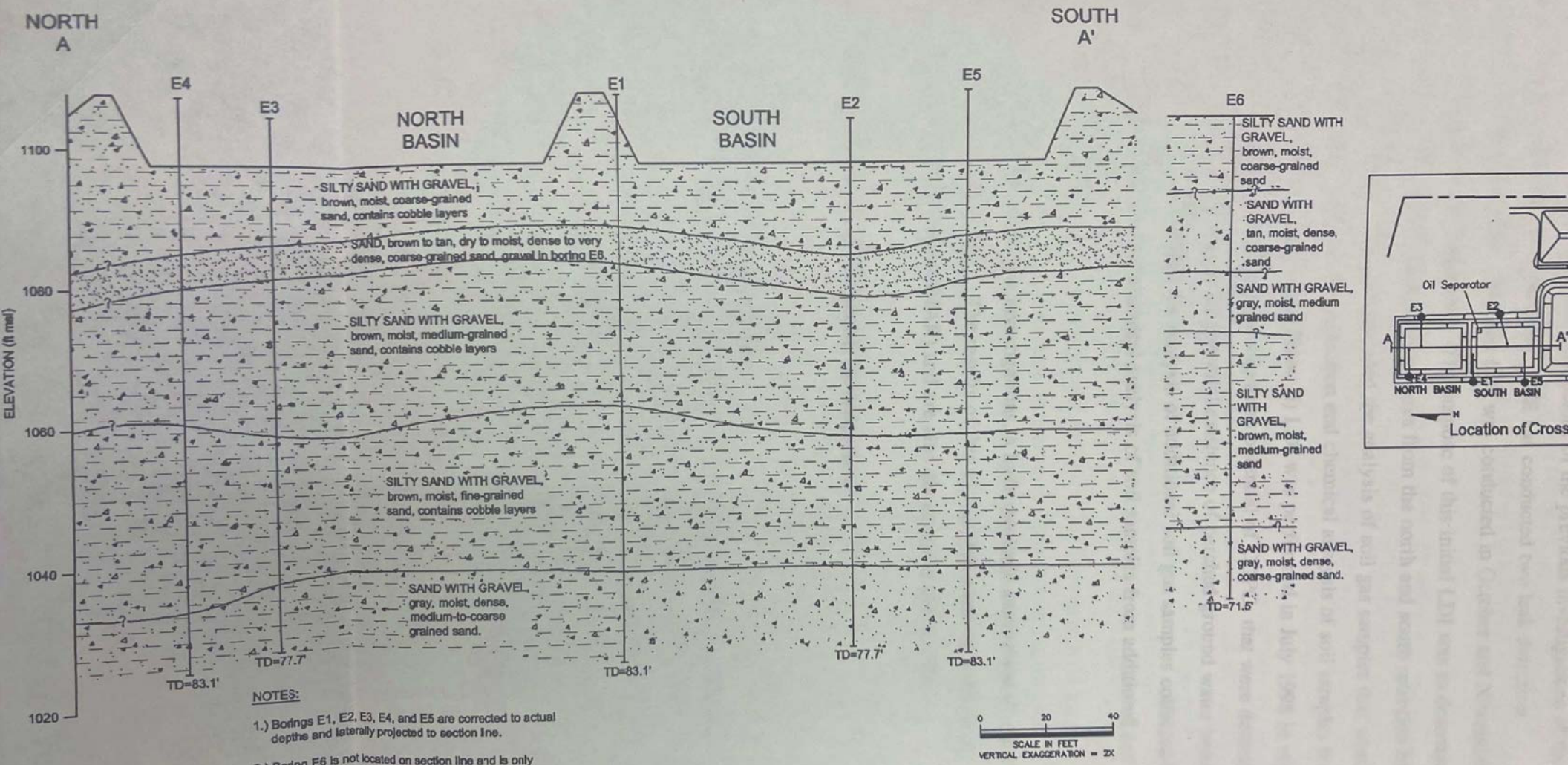


ENVIRON

Site Map
Etiwanda Generating Station
Etiwanda, California

Figure 2-1

Drafter: RS Date: 12/3/98 Contract Number: 03-5493N Approved: Revised:



NOTES:

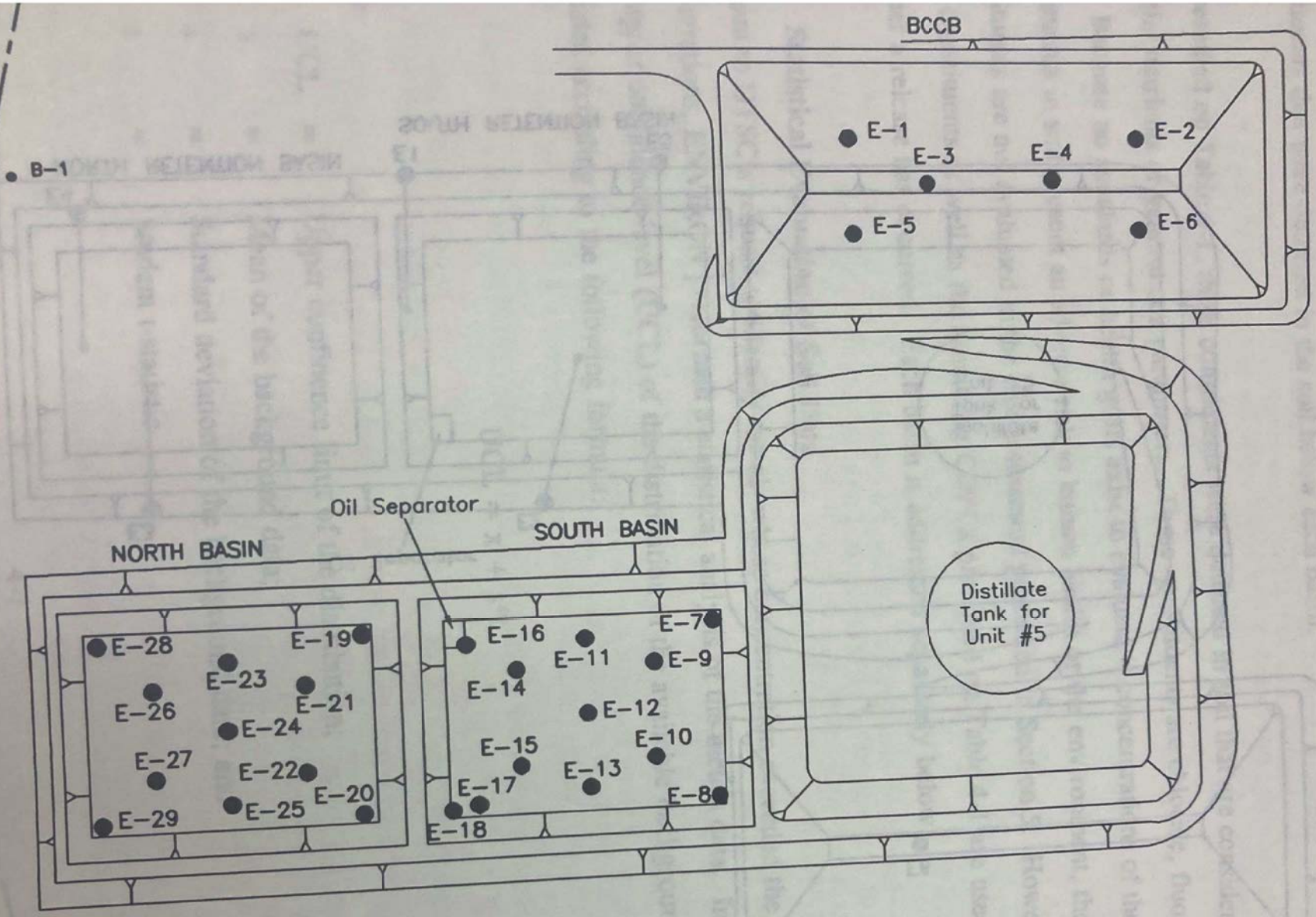
1.) Borings E1, E2, E3, E4, and E5 are corrected to actual depths and laterally projected to section line.

2.) Boring E6 is not located on section line and is only plotted for reference.

ENVIRON
5820 Shellmound St., Suite 700, Emeryville, CA 94608

Cross-Section A-A'
Etiwanda Generating Station
Southern California Generating Station

Drafter: RS | Date: 12/8/98 | Contract Number: 03-5493N | Approved: | Revise



EXPLANATION

- ● Location of Initial Leak Detection Boring
- • Location of Background Boring from 1985 Hydrogeologic Assessment

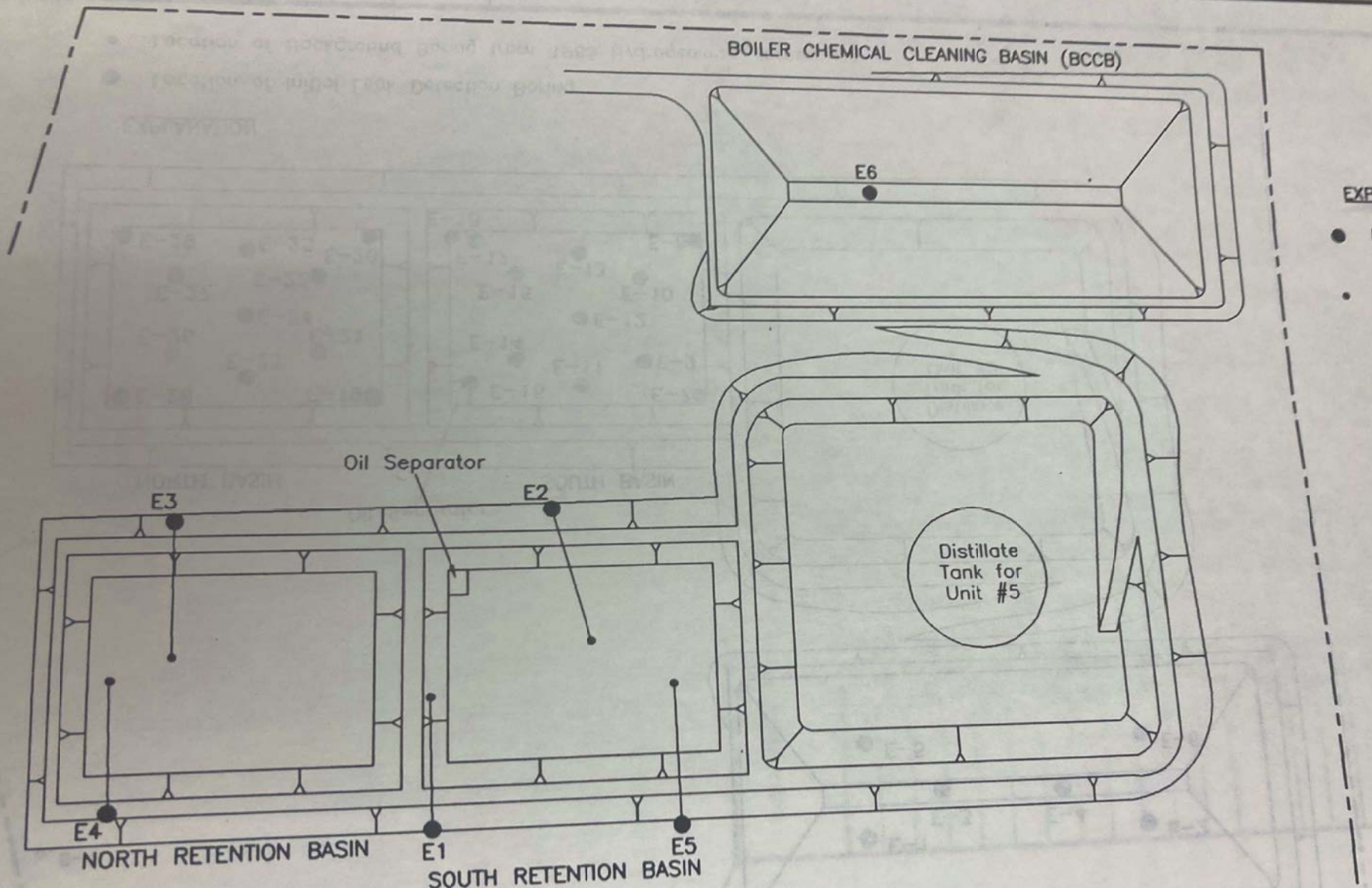
C:\035493N\SITEMAP

ENVIRON

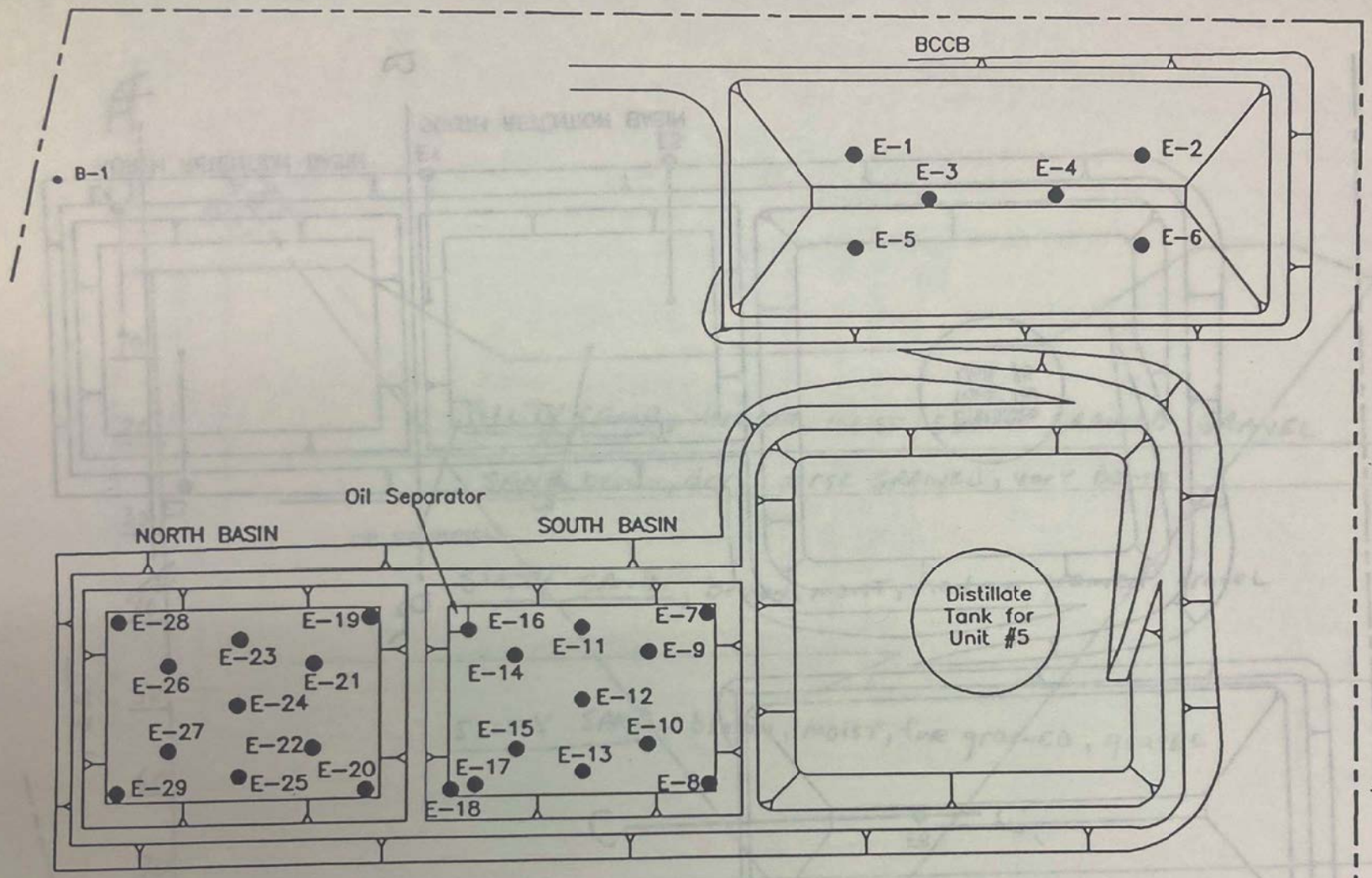
5000 Shellmound St., Suite 700, Emeryville, CA 94608

Initial Leak Detection Investigation Boring Locations
Etiwanda Generating Station
Etiwanda, California

Drafter: RS Date: 11/25/98 Contract Number: 03-5493N Approved:



Phase II Leak Detection Investigation Boring Locations
Etiwanda Generating Station



EXPLANATION

- ● Location of Initial Leak Detection Boring
- • Location of Background Boring from 1985 Hydrogeologic Assessment

C:\03549N\SITEMAP

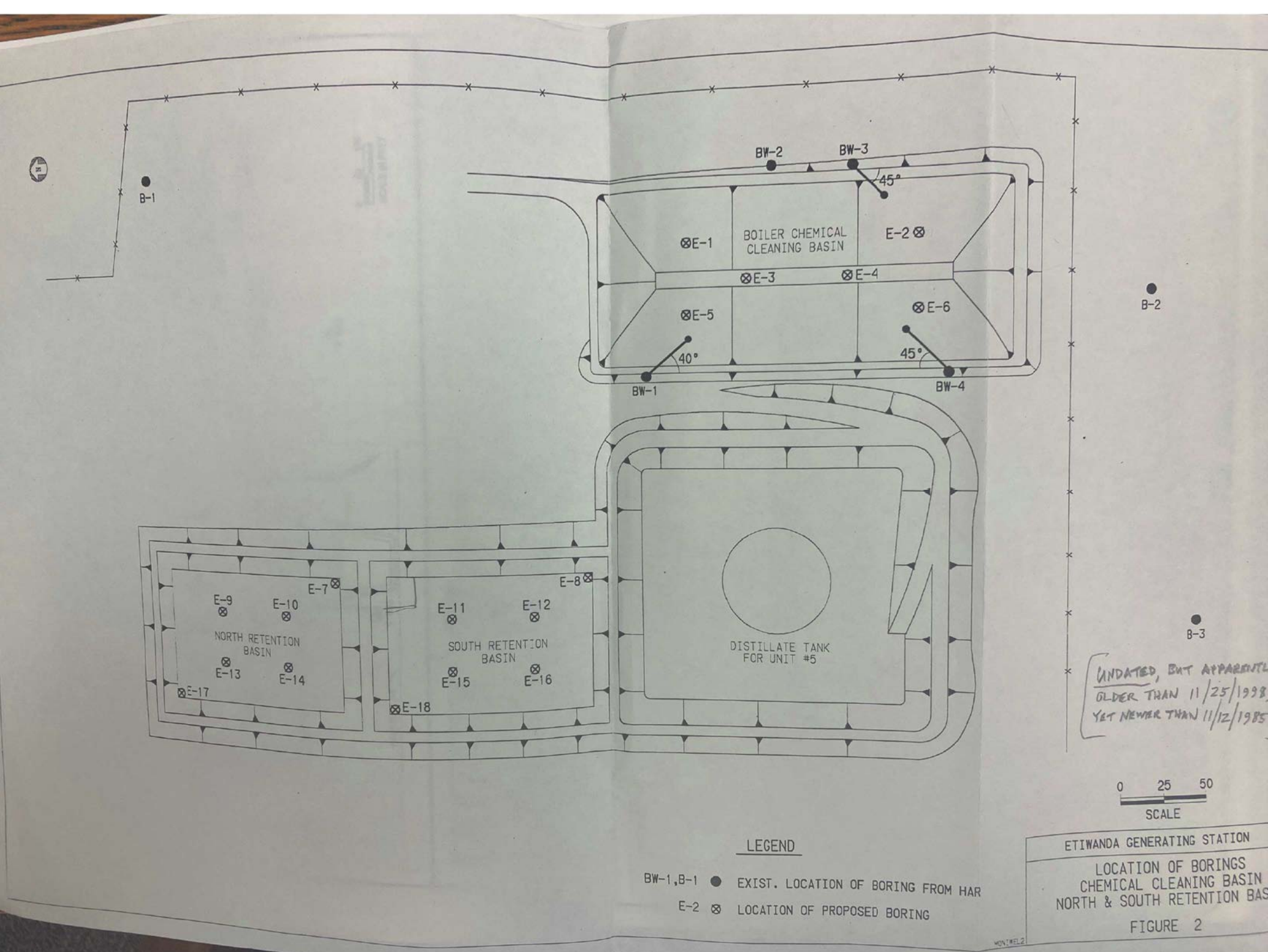
ENVIRON

5820 Shellmound St., Suite 700, Emeryville, CA 94608

Initial Leak Detection Investigation Boring Locations
Etiwanda Generating Station
Etiwanda, California

Figure 2

Drafter: RS Date: 11/25/98 Contract Number: 03-5493N Approved: Revised:


B-1
BW-2
BW-3
45°
⊗E-1
BOILER CHEMICAL CLEANING BASIN
E-2⊗
⊗E-3
⊗E-4
⊗E-5
⊗E-6
40°
45°
BW-1
BW-4
B-2
B-3
E-7⊗
E-8⊗
E-9⊗
E-10⊗
E-11⊗
E-12⊗
NORTH RETENTION BASIN
SOUTH RETENTION BASIN
DISTILLATE TANK FOR UNIT #5
E-13⊗
E-14⊗
E-15⊗
E-16⊗
E-17⊗
E-18⊗
UNDATED, BUT APPARENTLY
OLDER THAN 11/25/1998
YET NEWER THAN 11/12/1985
0 25 50
SCALE
LEGEND
BW-1,B-1 ● EXIST. LOCATION OF BORING FROM HAR
E-2 ⊗ LOCATION OF PROPOSED BORING
ETIWANDA GENERATING STATION
LOCATION OF BORINGS
CHEMICAL CLEANING BASIN
NORTH & SOUTH RETENTION BAS
FIGURE 2

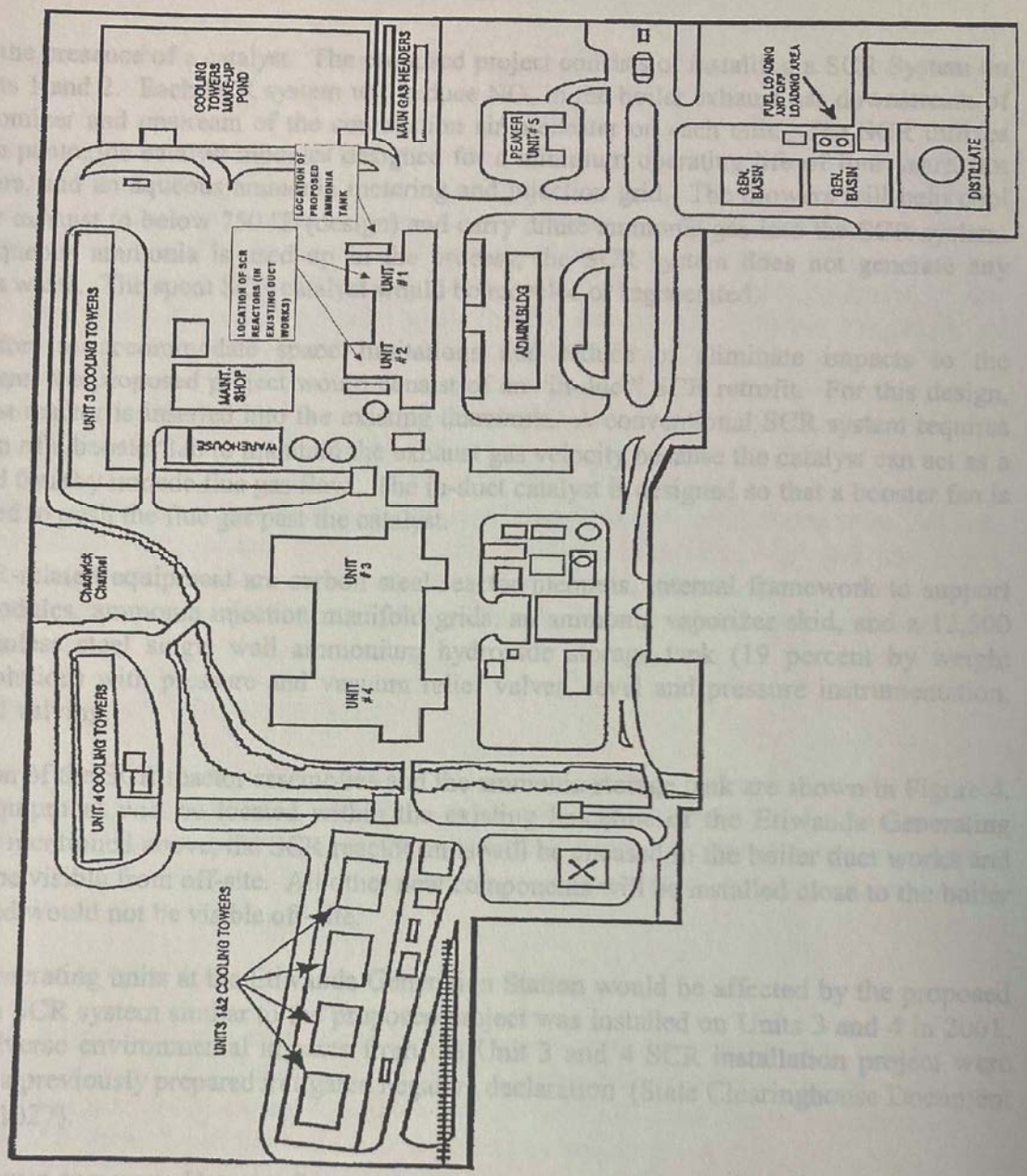
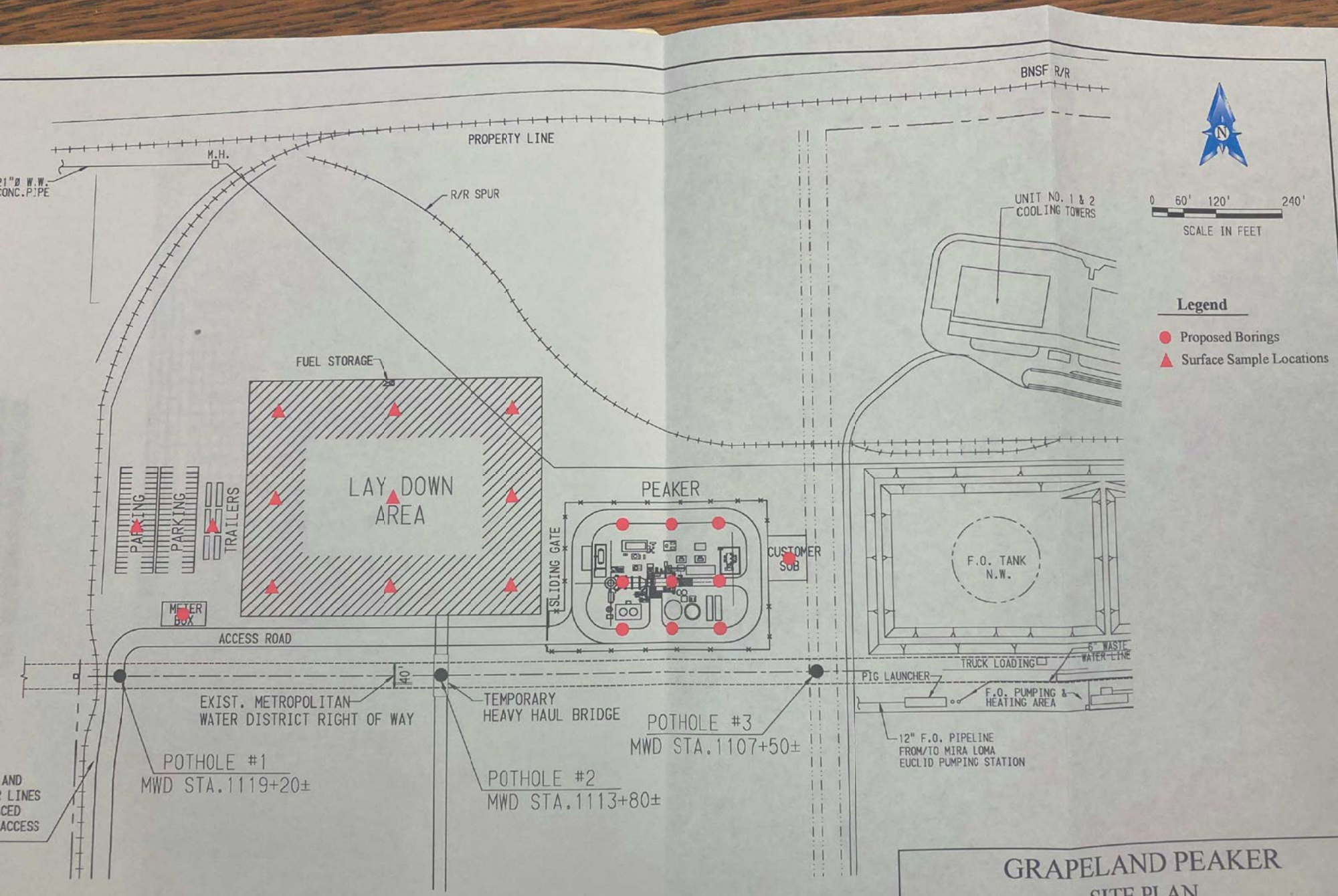


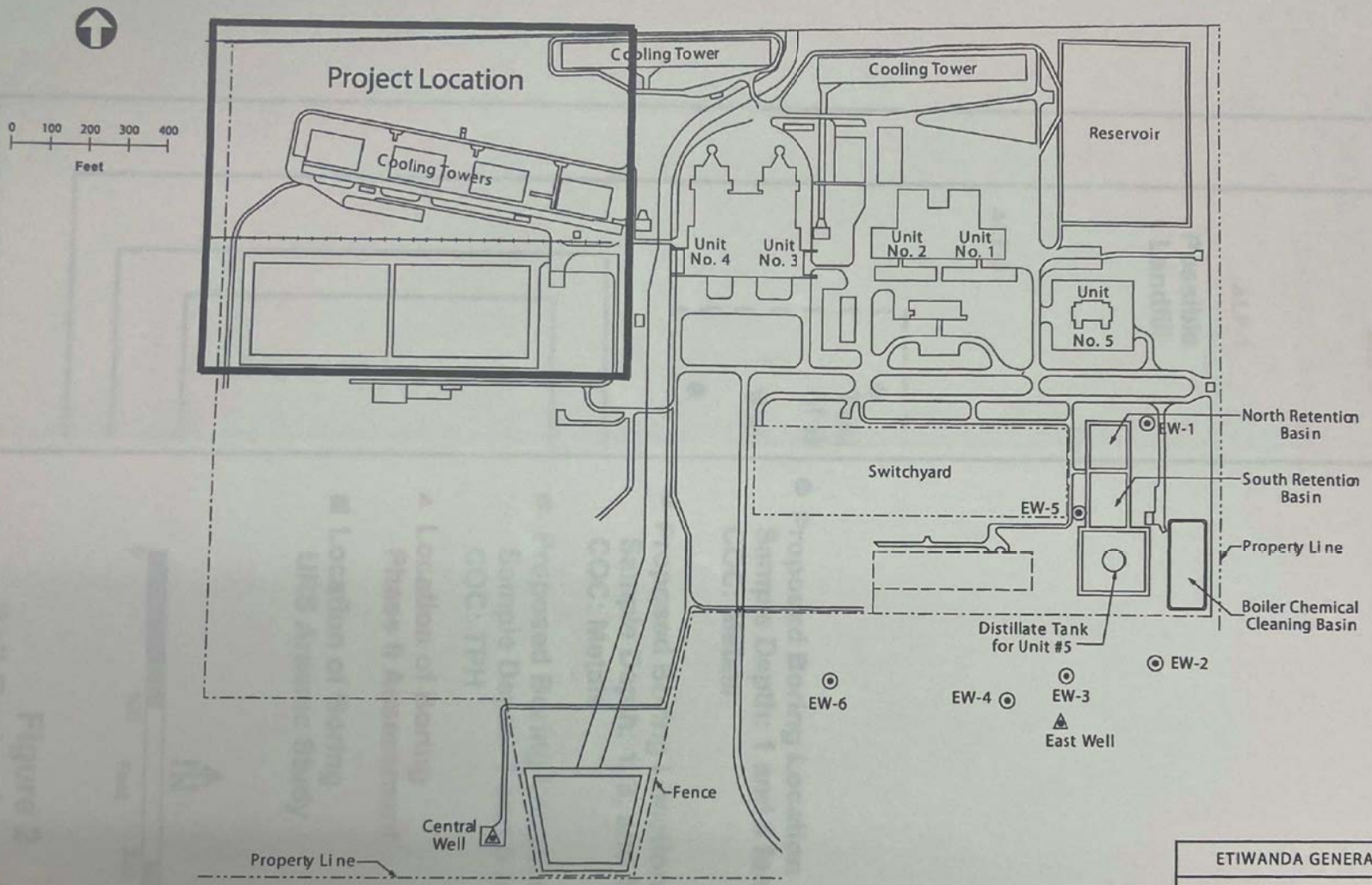
Figure 4. Etiwanda Generating Station Site Map



GRAPELAND PEAKER
SITE PLAN

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

FIGURE 2



ETIWANDA GENERATING STATION

Project Location Map

FIGURE 1

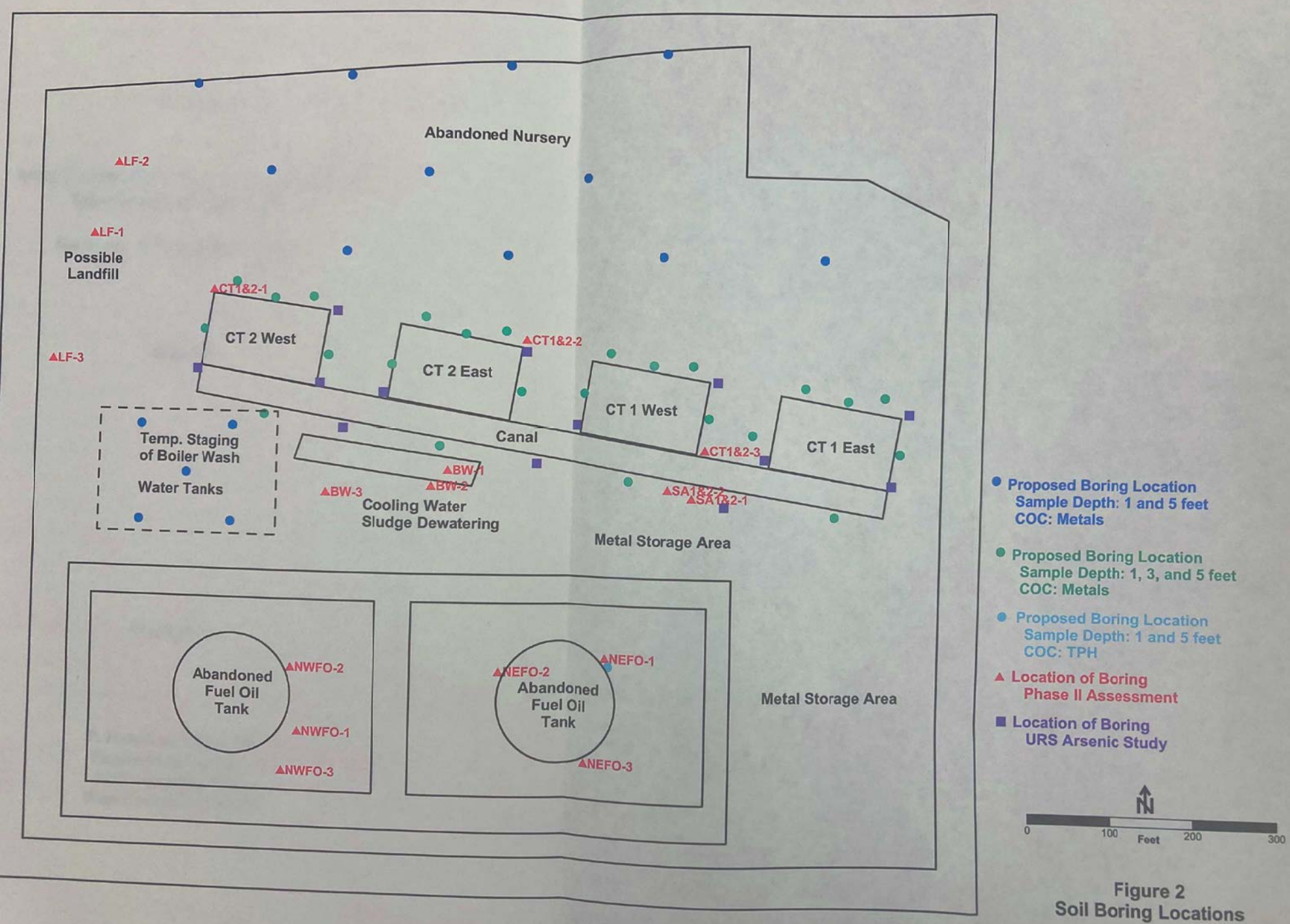
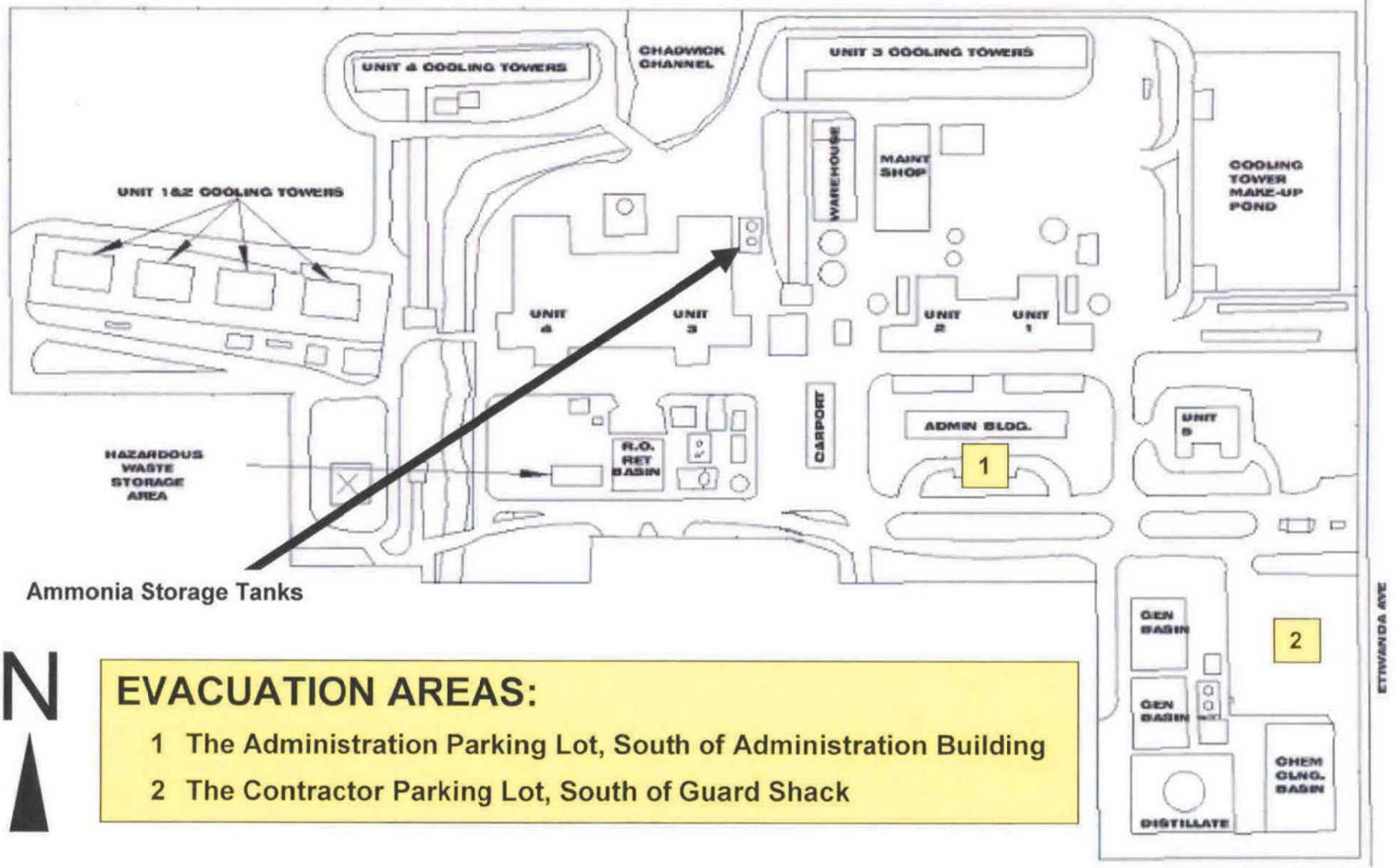


Figure 2
Soil Boring Locations

Appendix A4. Etiwanda Site Plan

RRI Energy Etiwanda



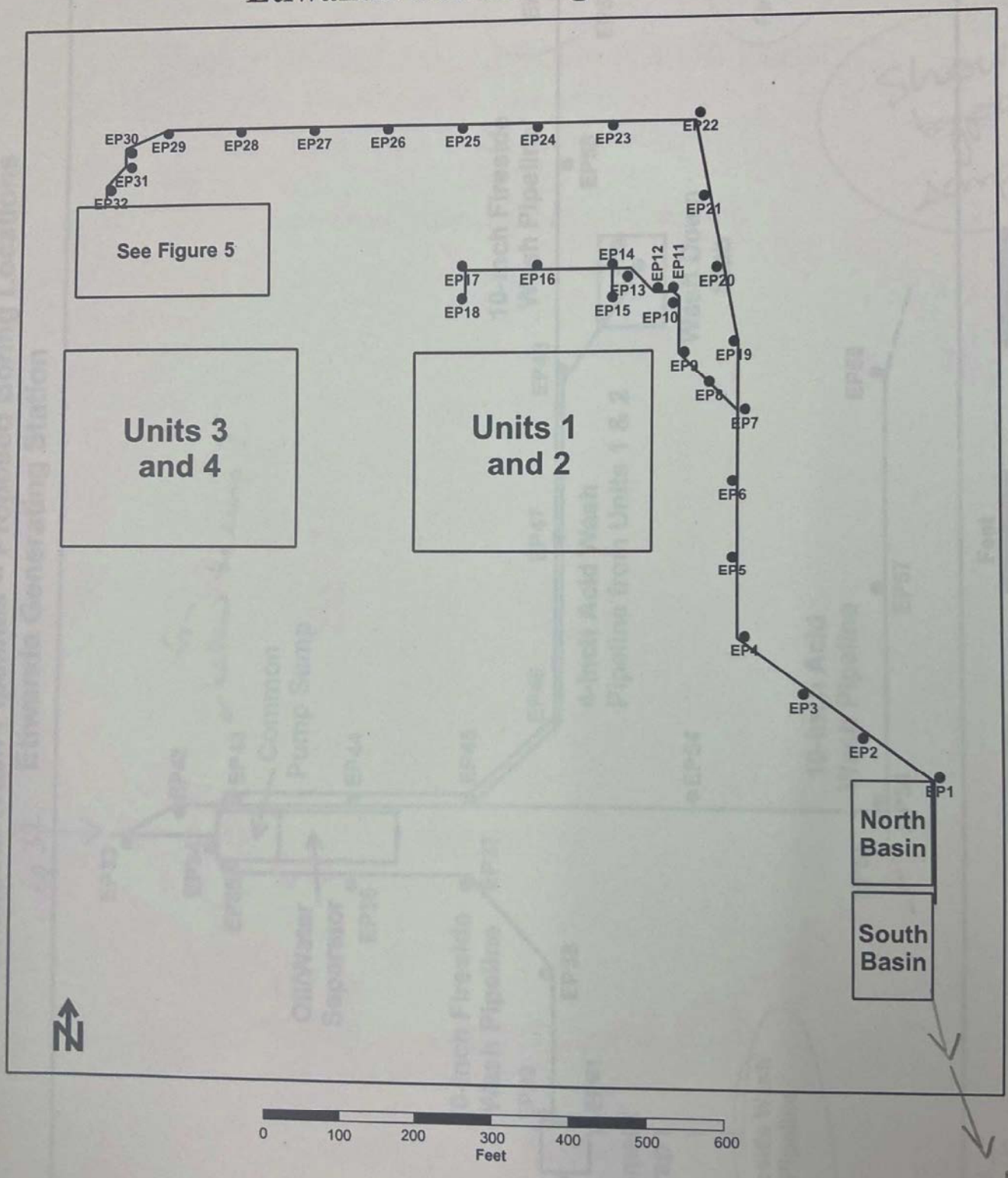
N

EVACUATION AREAS:

1 The Administration Parking Lot, South of Administration Building

2 The Contractor Parking Lot, South of Guard Shack

Pipeline Soil Investigation
Etiwanda Generating Station



outlet line

Figure 4

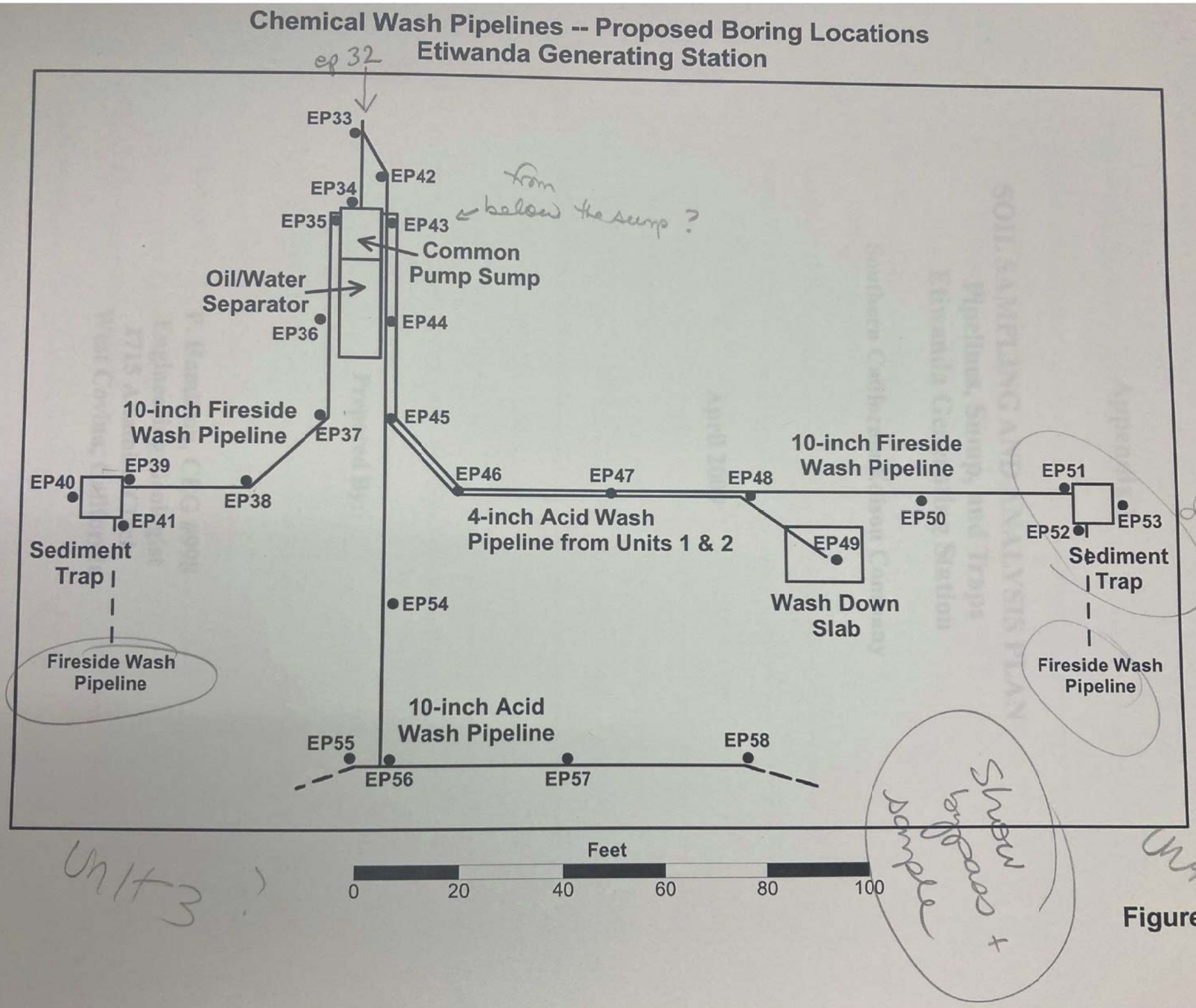
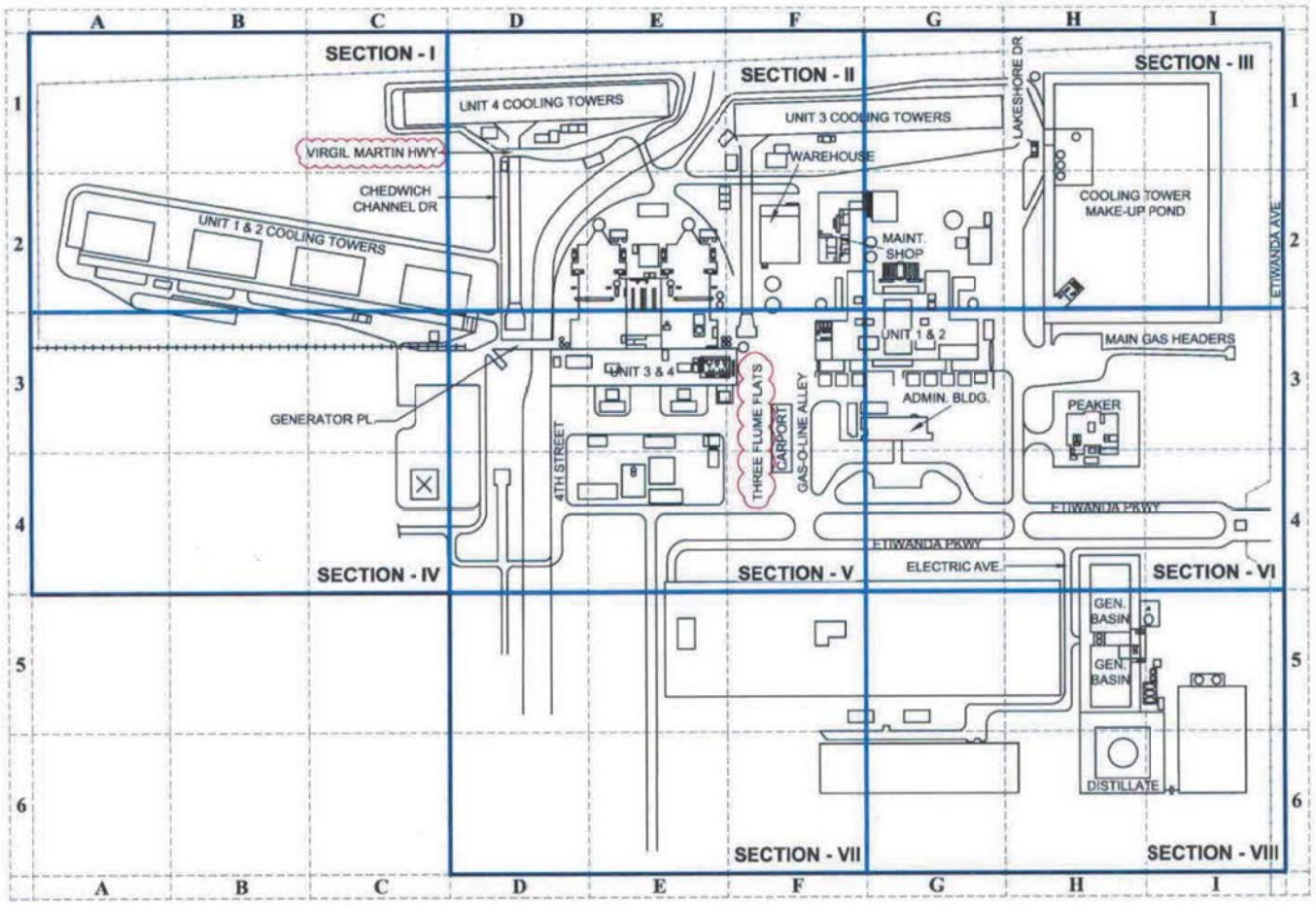
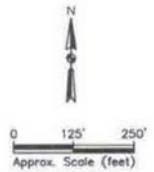

Chemical Wash Pipelines -- Proposed Boring Locations
Etiwanda Generating Station
EP33
EP42
EP34
EP35
EP43
Common
Pump Sump
Oil/Water
Separator
EP36
EP44
10-inch Fireside
Wash Pipeline
EP37
EP45
EP39
EP40
EP38
EP41
Sediment
Trap
Fireside Wash
Pipeline
EP46
EP47
EP48
10-inch Fireside
Wash Pipeline
EP51
EP50
EP52
EP53
4-inch Acid Wash
Pipeline from Units 1 & 2
EP49
Wash Down
Slab
Sediment
Trap
Fireside Wash
Pipeline
EP54
10-inch Acid
Wash Pipeline
EP55
EP56
EP57
EP58
Feet
0
20
40
60
80
100

Figure 5





Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Figure 2
Site Layout Map
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

Environmental Resources Management
www.erm.com
ERM

J. Estrada 5/31/2018 0462138.001 G:\DWGS\0462138 CERS Etiwanda\001\0462138001-02.dwg

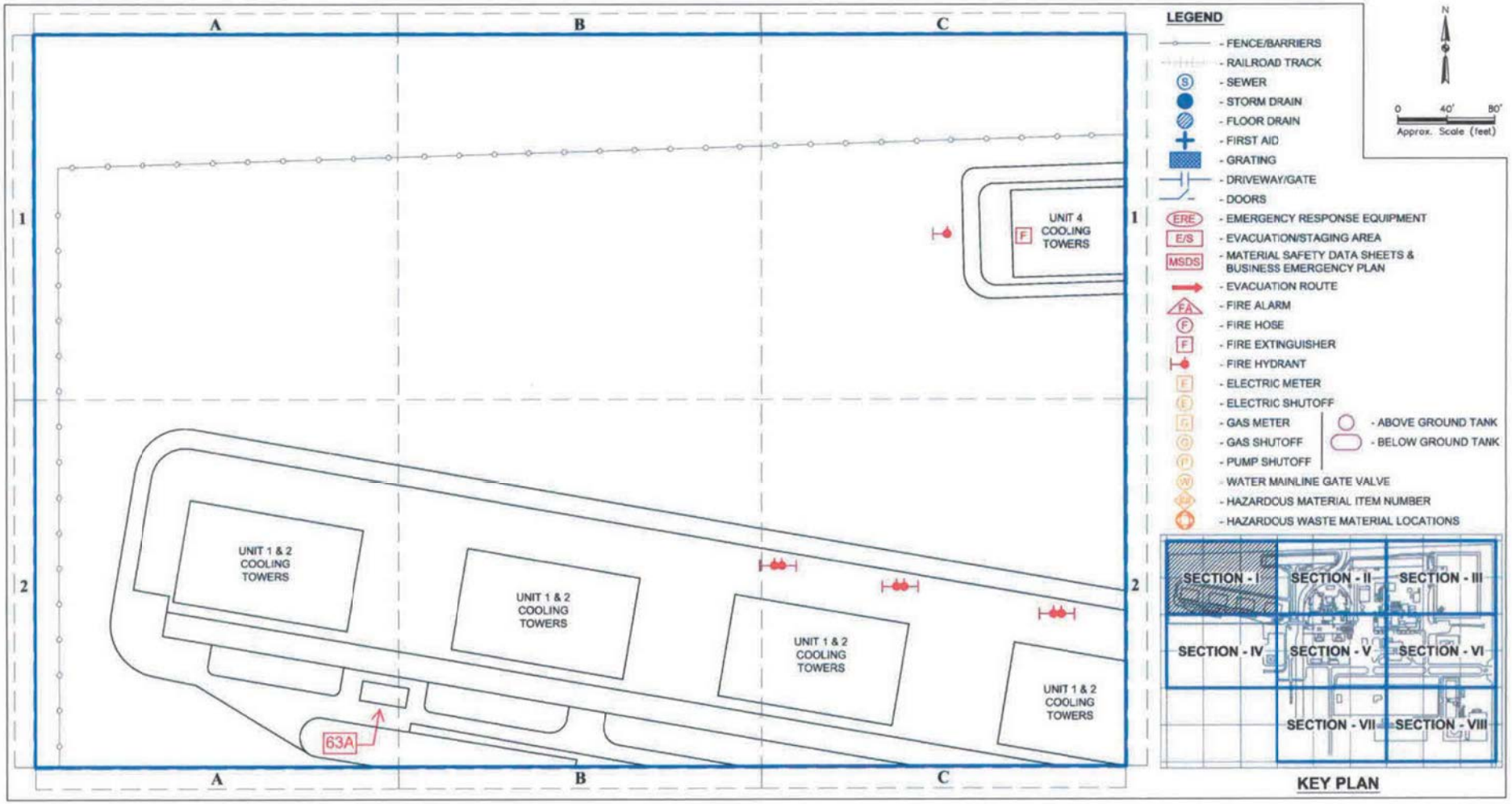


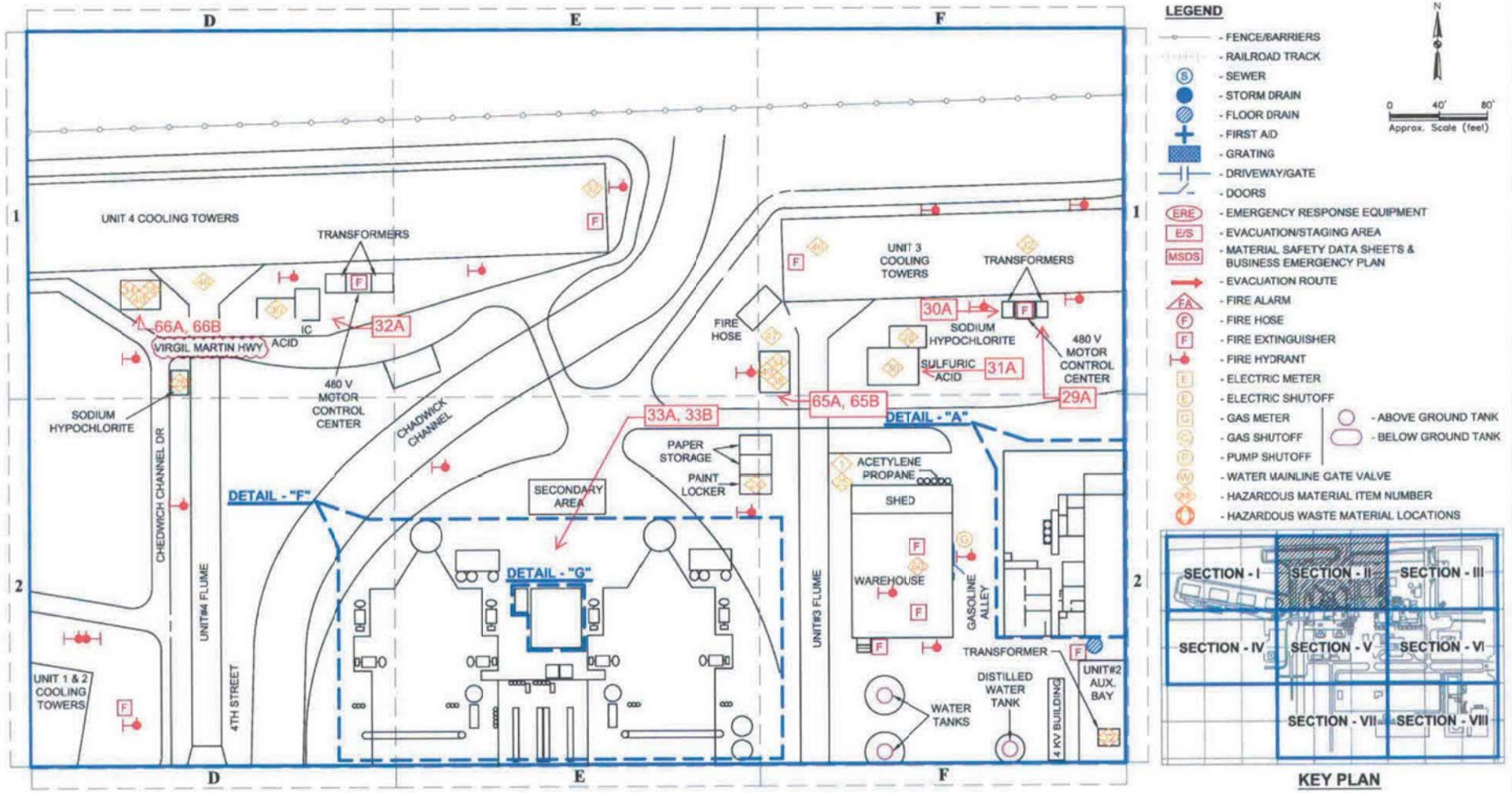
Figure 3

Site Detail Map - Section I
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Environmental Resources Management
www.erm.com
ERM

J. Estrada 5/31/2018 0462138.001 G:\DWGS\0462138 CEPS Etiwanda\001\0462138001-02.dwg



Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Figure 4
Site Detail Map - Section II
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

Environmental Resources Management
www.erm.com
ERM

J. Estrada 9/21/2018 0462138.001 G:\DWGS\0462138 CERS Etiwanda\001\0462138001-02.dwg

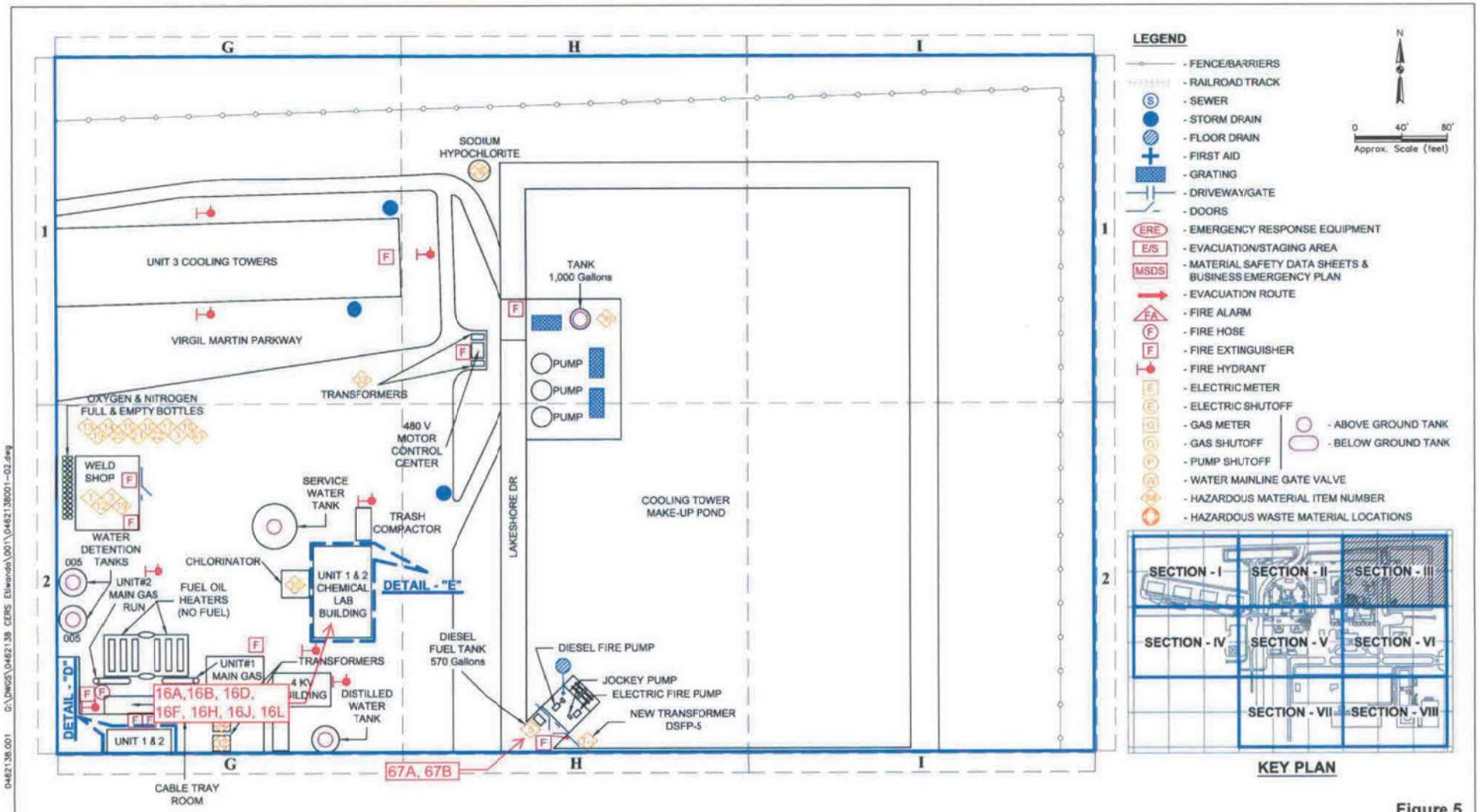


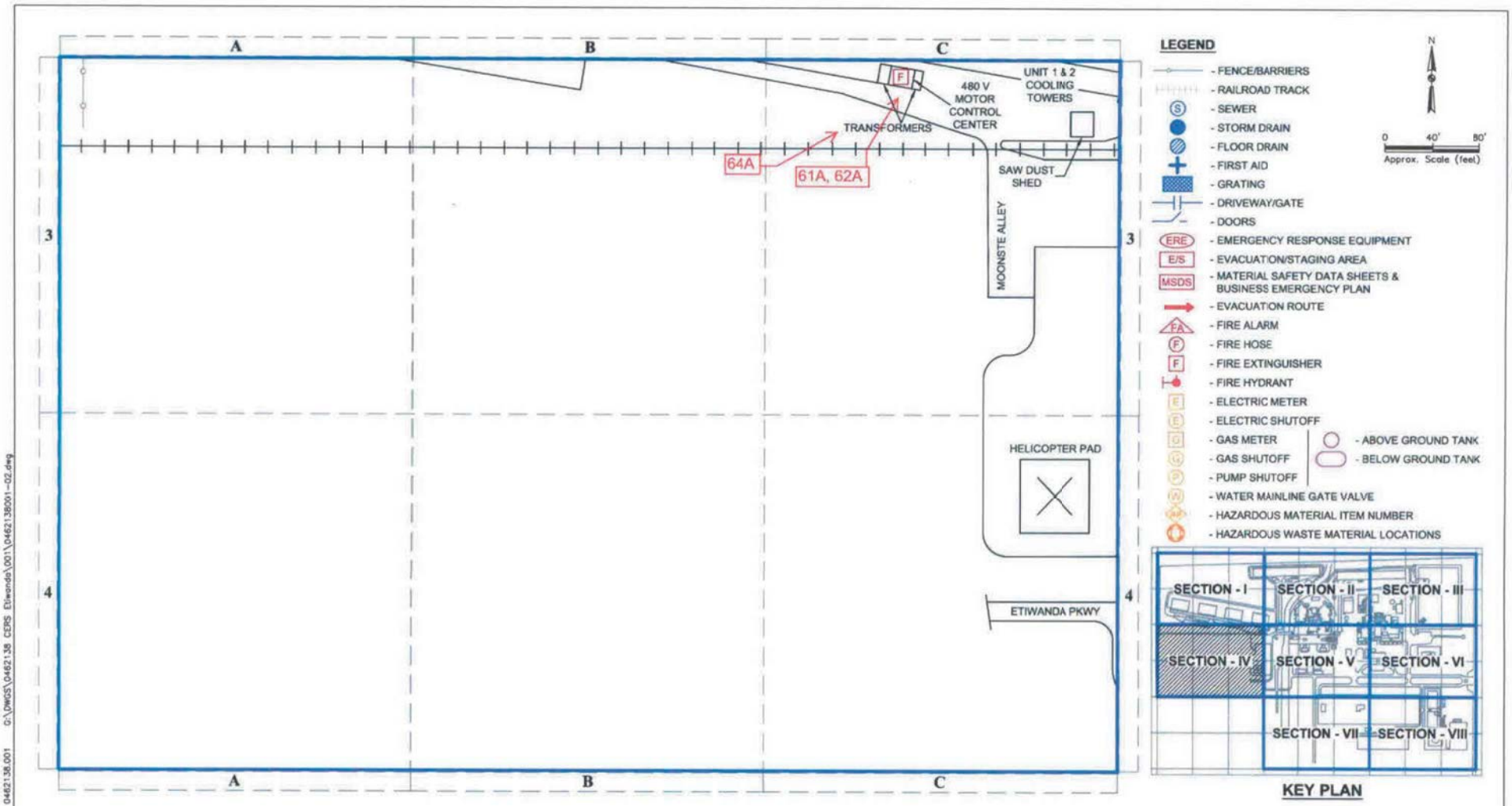
Figure 5

Site Detail Map - Section III
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

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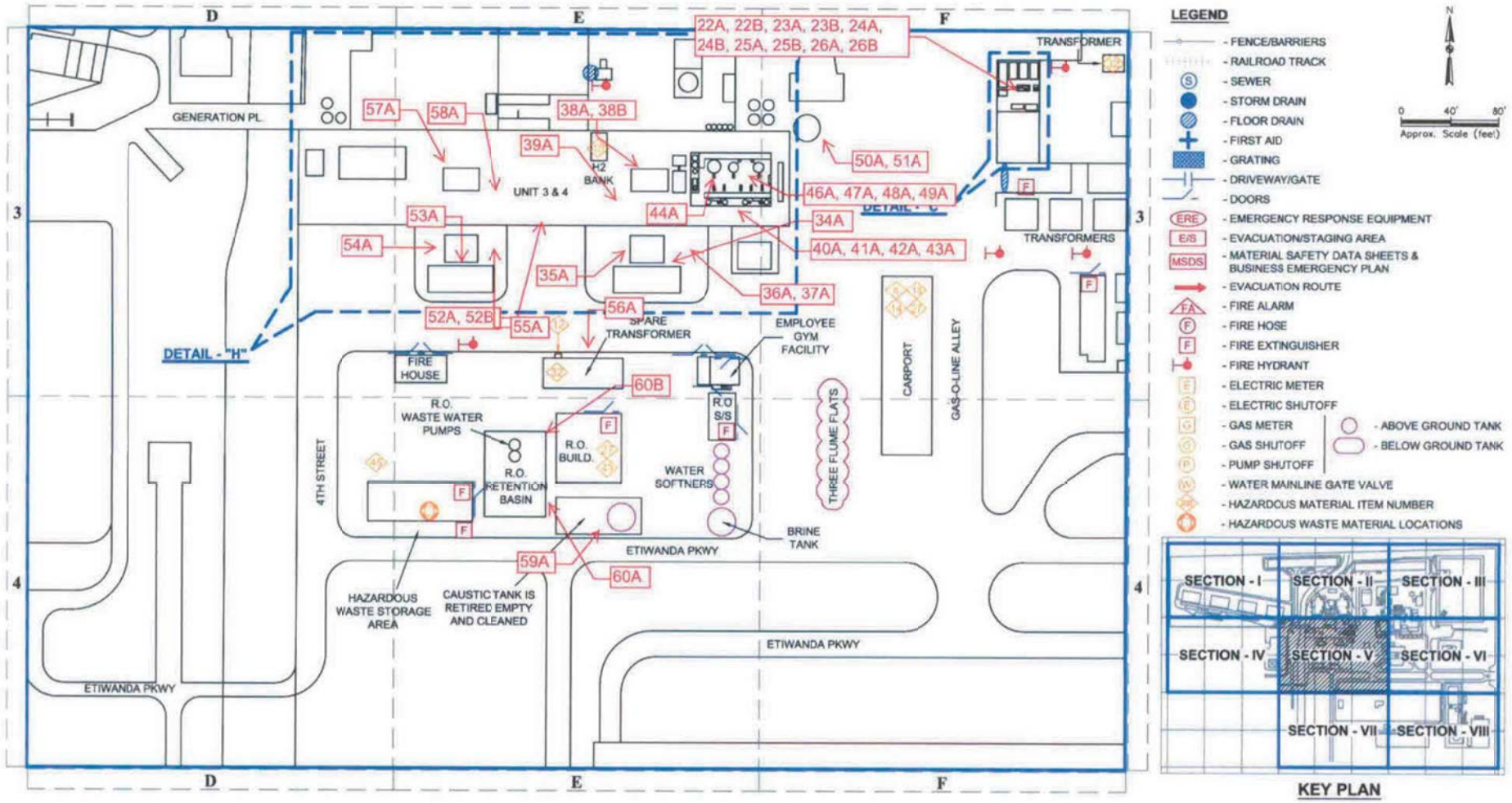
J. Estrada 5/31/2018 0462138.001 G:\DWGS\0462138 CEPS Etiwanda\001\0462138001-02.dwg

Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Figure 6

Site Detail Map - Section IV
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

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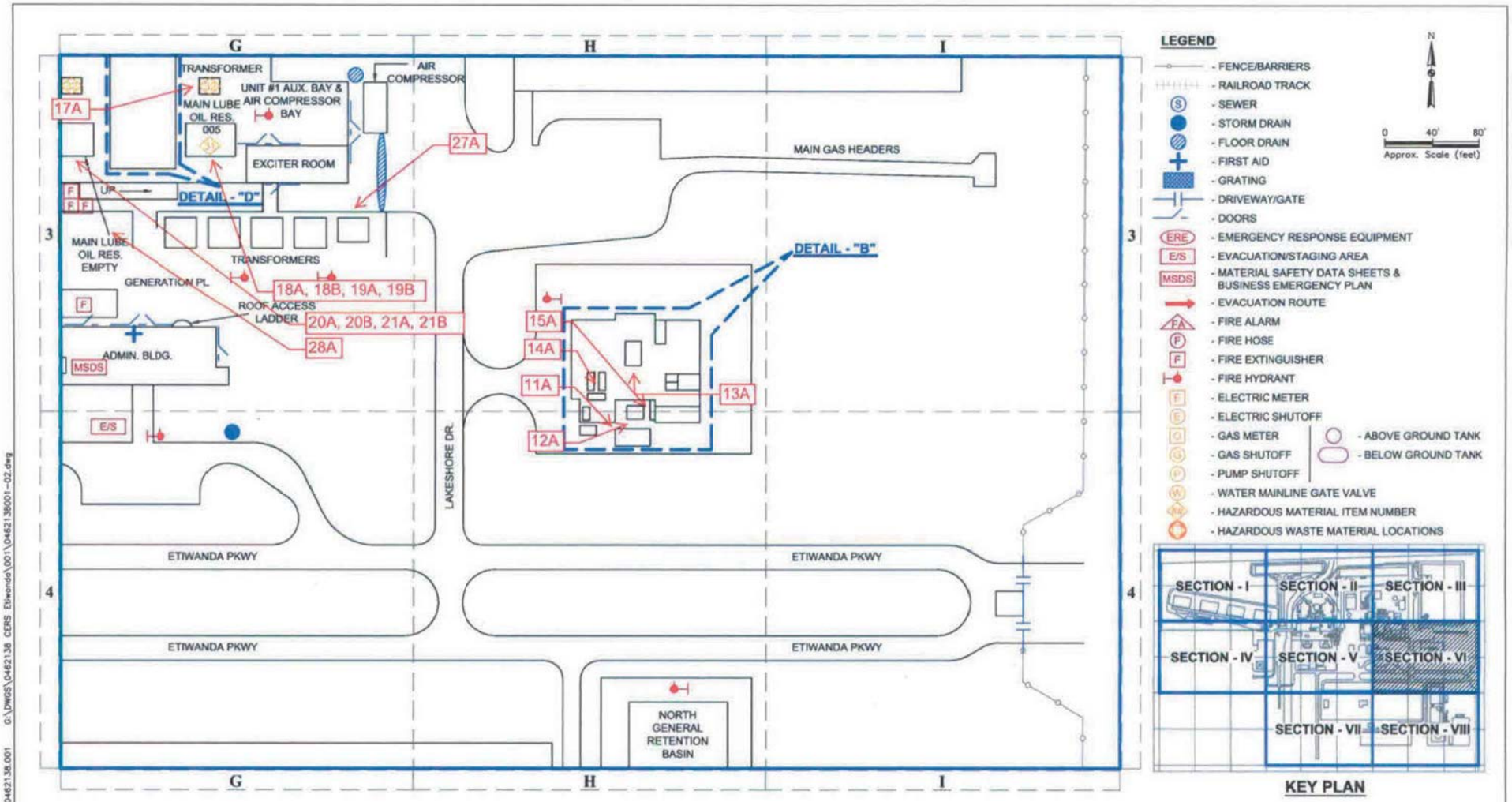


Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Figure 7
Site Detail Map - Section V
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

Environmental Resources Management
www.erm.com
ERM

J. Estrada 5/31/2018 0462138.001 G:\DWGS\0462138 CERS Etiwanda\001\0462138001-02.dwg



Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Figure 8
Site Detail Map - Section VI
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

Environmental Resources Management
www.erm.com
ERM

J. Estrada 5/31/2018 0462138.001 G:\DWGS\0462138 CERS Etiwanda\001\0462138001-02.dwg

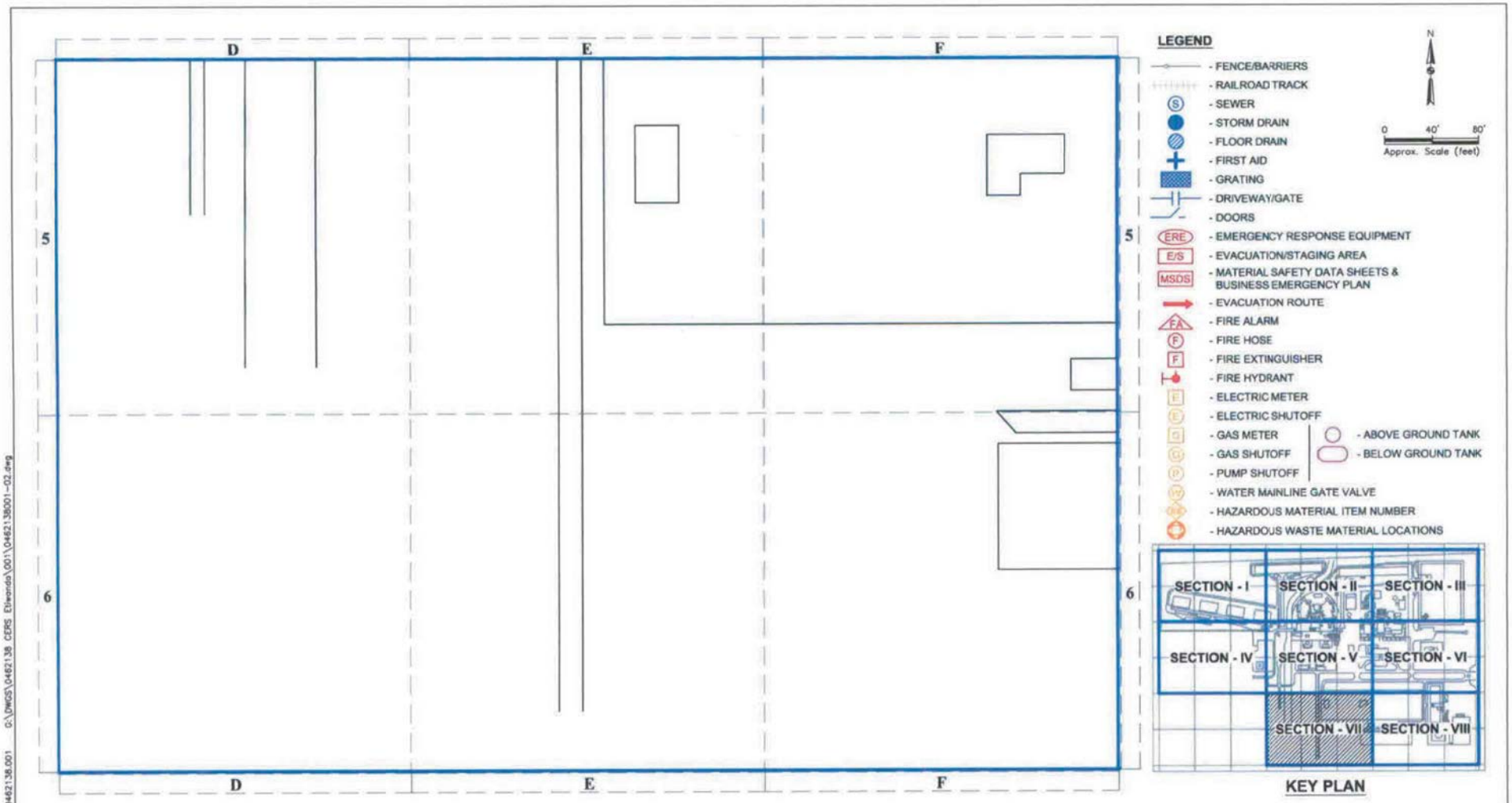


Figure 9

Site Detail Map - Section VII
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Environmental Resources Management
www.erm.com

J. Estrada 5/31/2018 0462138.001 G:\DWGS\0462138 CERS Etiwanda\001\0462138001-02.dwg

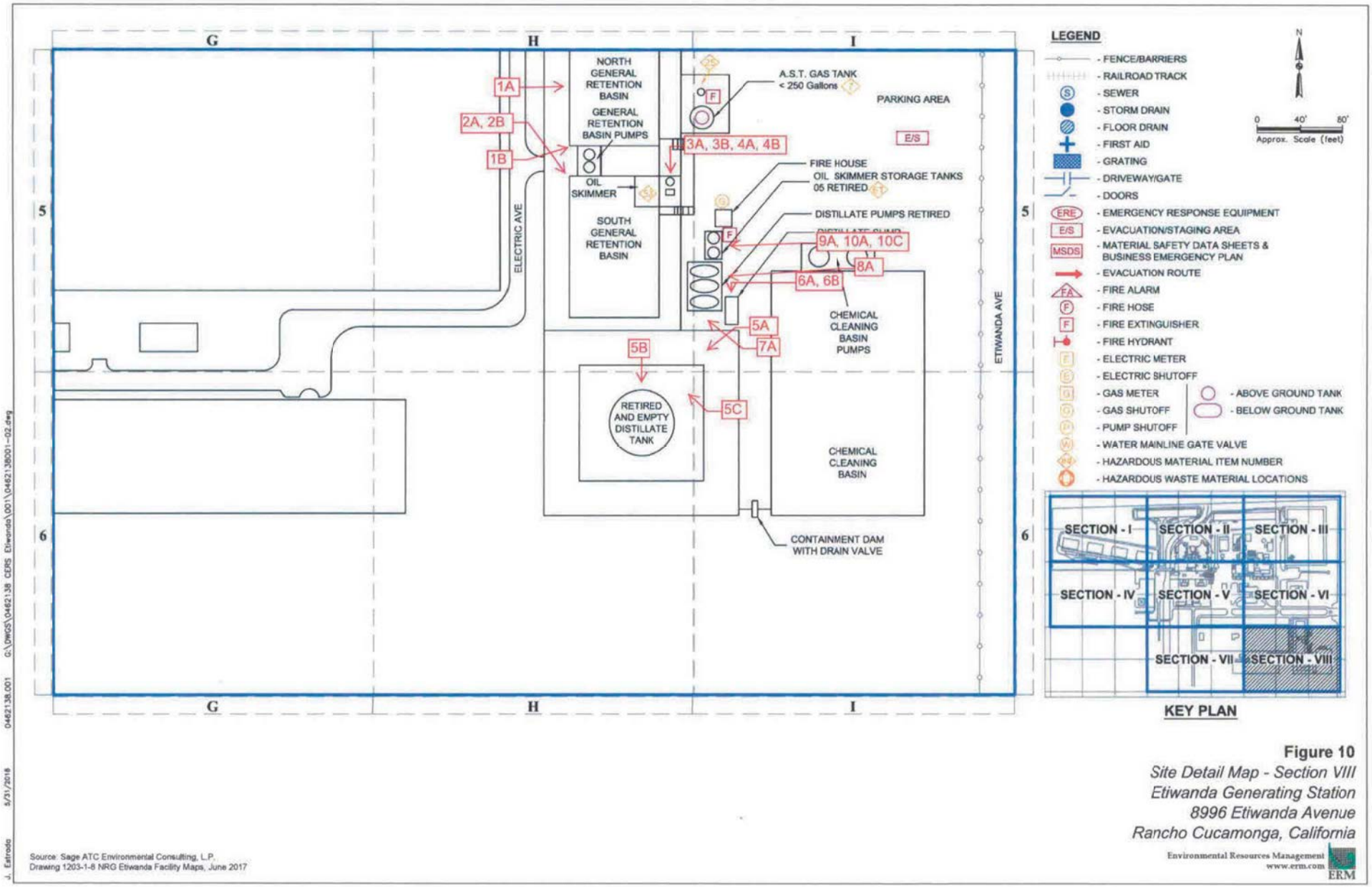


Figure 10

Site Detail Map - Section VIII
Etiwanda Generating Station
8996 Etiwanda Avenue
Rancho Cucamonga, California

Source: Sage ATC Environmental Consulting, L.P.
Drawing 1203-1-8 NRG Etiwanda Facility Maps, June 2017

Environmental Resources Management
www.erm.com
ERM

J. Estrada 5/31/2018 0462138.001 G:\DWGS\0462138 CERS Etiwanda\001\0462138001-02.dwg



LEGEND

- Former SCE EGS Property Line
- Metropolitan Water District (MWD) 30-Foot Easement
- IEUA Property Line
- NRG EGS Property Line

0 400 800

APPROXIMATE SCALE IN FEET

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2130 Huntington Drive, Suite 300
South Pasadena, California 91030

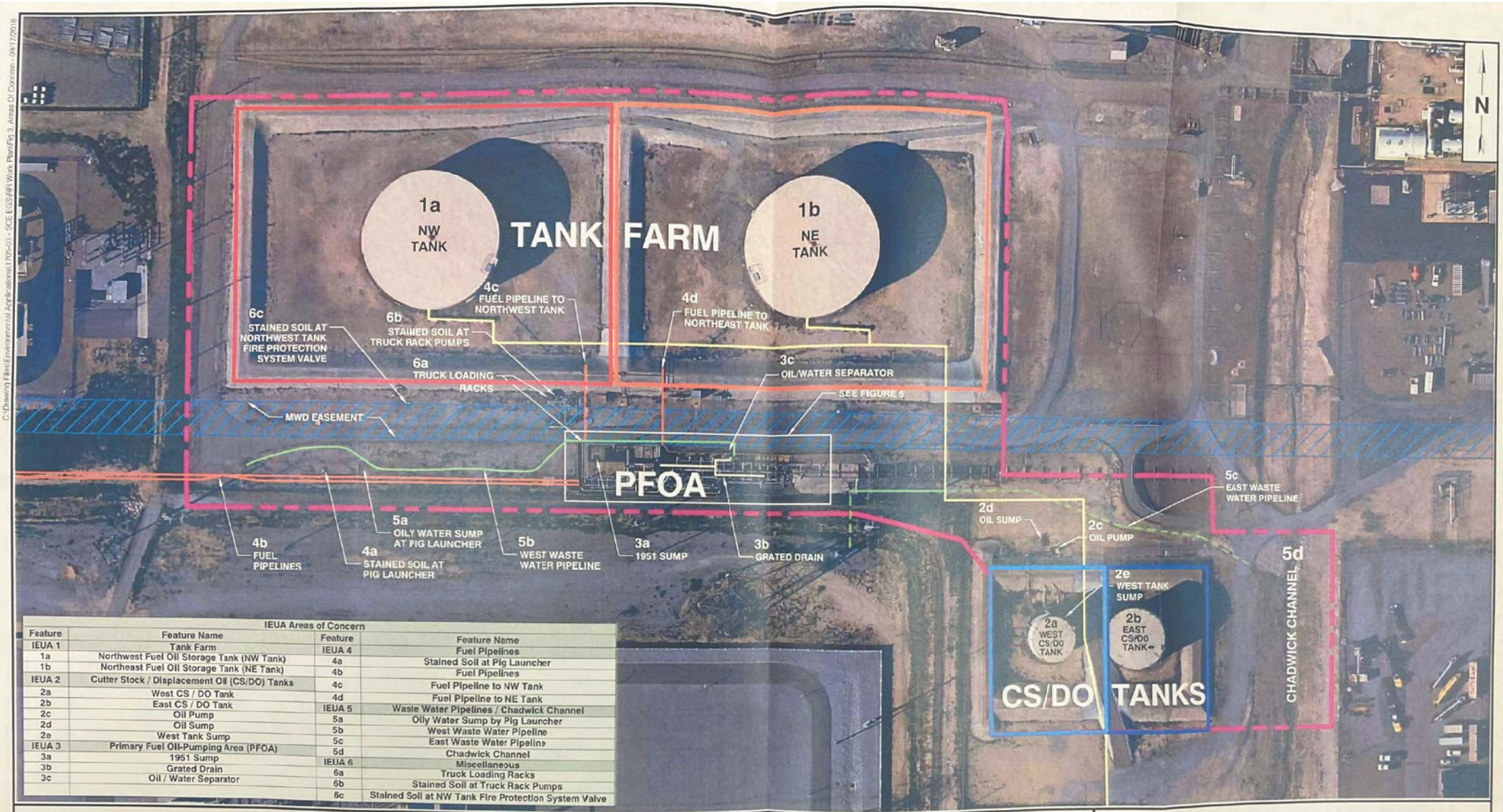
SITE MAP

Project: IEUA Portion of
Former Southern California Edison
Etiwanda Generation Station
8998 Etiwanda Avenue
Rancho Cucamonga, California

Project Number: 1705-03

Figure: 2

Date: August 7, 2017



IEUA Areas of Concern

Feature	Feature Name	Feature	Feature Name
IEUA 1	Tank Farm	IEUA 4	Fuel Pipelines
1a	Northwest Fuel Oil Storage Tank (NW Tank)	4a	Stained Soil at Pig Launcher
1b	Northeast Fuel Oil Storage Tank (NE Tank)	4b	Fuel Pipelines
IEUA 2	Cutter Stock / Displacement Oil (CS/DO) Tanks	4c	Fuel Pipeline to NW Tank
2a	West CS / DO Tank	4d	Fuel Pipeline to NE Tank
2b	East CS / DO Tank	IEUA 5	Waste Water Pipelines / Chadwick Channel
2c	Oil Pump	5a	Oily Water Sump by Pig Launcher
2d	Oil Sump	5b	West Waste Water Pipeline
2e	West Tank Sump	5c	East Waste Water Pipeline
IEUA 3	Primary Fuel Oil-Pumping Area (PFOA)	5d	Chadwick Channel
3a	1951 Sump	IEUA 6	Miscellaneous
3b	Grated Drain	6a	Truck Loading Racks
3c	Oil / Water Separator	6b	Stained Soil at Truck Rack Pumps
		6c	Stained Soil at NW Tank Fire Protection System Valve

LEGEND

- Fuel Lines
- Waste Water Lines
- IEUA Water Line
- MWD Easement
- IEUA Property Line
- Grated Drain

Notes:

PFOA - Primary Fuel Oil-Pumping Area
CS/DO - Cutter Stock/Displacement Oil

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0 100 200
APPROXIMATE SCALE IN FEET

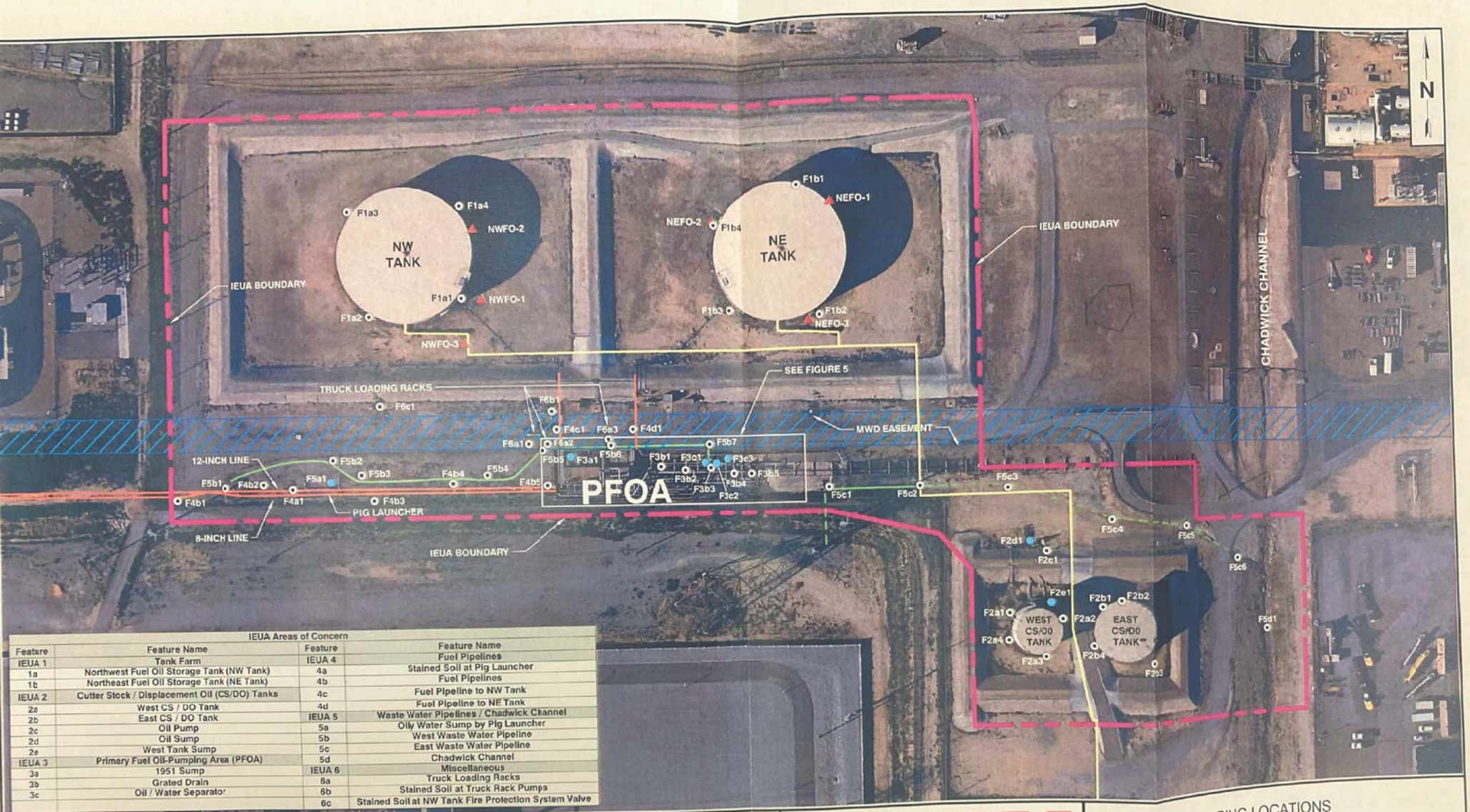
Figure 3 – AREAS OF CONCERN

Project: IEUA Portion of
Former Southern California Edison
Etiwanda Generation Station
8998 Etiwanda Avenue
Rancho Cucamonga, California

Project# 1705-03

Date: September 17, 2018

C:\Drawing Files\Environmental Applications\1705-03 - SCE EGS\RFI Work Plan\Fig 3 Areas Of Concern - 09172018



IEUA Areas of Concern

Feature	Feature Name	Feature	Feature Name
IEUA 1	Tank Farm	IEUA 4	Fuel Pipelines
1a	Northwest Fuel Oil Storage Tank (NW Tank)	4a	Stained Soil at Pig Launcher
1b	Northeast Fuel Oil Storage Tank (NE Tank)	4b	Fuel Pipelines
IEUA 2	Cutter Stock / Displacement Oil (CS/DO) Tanks	4c	Fuel Pipeline to NW Tank
2a	West CS / DO Tank	4d	Fuel Pipeline to NE Tank
2b	East CS / DO Tank	IEUA 5	Waste Water Pipelines / Chadwick Channel
2c	Oil Pump	5a	Oily Water Sump by Pig Launcher
2d	Oil Sump	5b	West Waste Water Pipeline
2e	West Tank Sump	5c	East Waste Water Pipeline
IEUA 3	Primary Fuel Oil-Pumping Area (PFOA)	5d	Chadwick Channel
3a	1951 Sump	IEUA 6	Miscellaneous
3b	Grated Drain	6a	Truck Loading Racks
3c	Oil / Water Separator	6b	Stained Soil at Truck Rack Pumps
		6c	Stained Soil at NW Tank Fire Protection System Valve

LEGEND

NWFO-1 ▲ Geraghty and Miller Boring Location (From Hamilton, 2002)

F1a1 ⊙ EnvApps Boring Locations 2017

F5a1 ● EnvApps Boring and Soil Gas Probs Locations 2017

Fuel Lines

Waste Water Lines (Dashed Where Approximate)

IEUA Water Line

MWD Easement

IEUA Boundary

Notes:

PFOA - Primary Fuel Oil-Pumping Area
CS/DO - Cutter Stock/Displacement Oil

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0 100 200
APPROXIMATE SCALE IN FEET

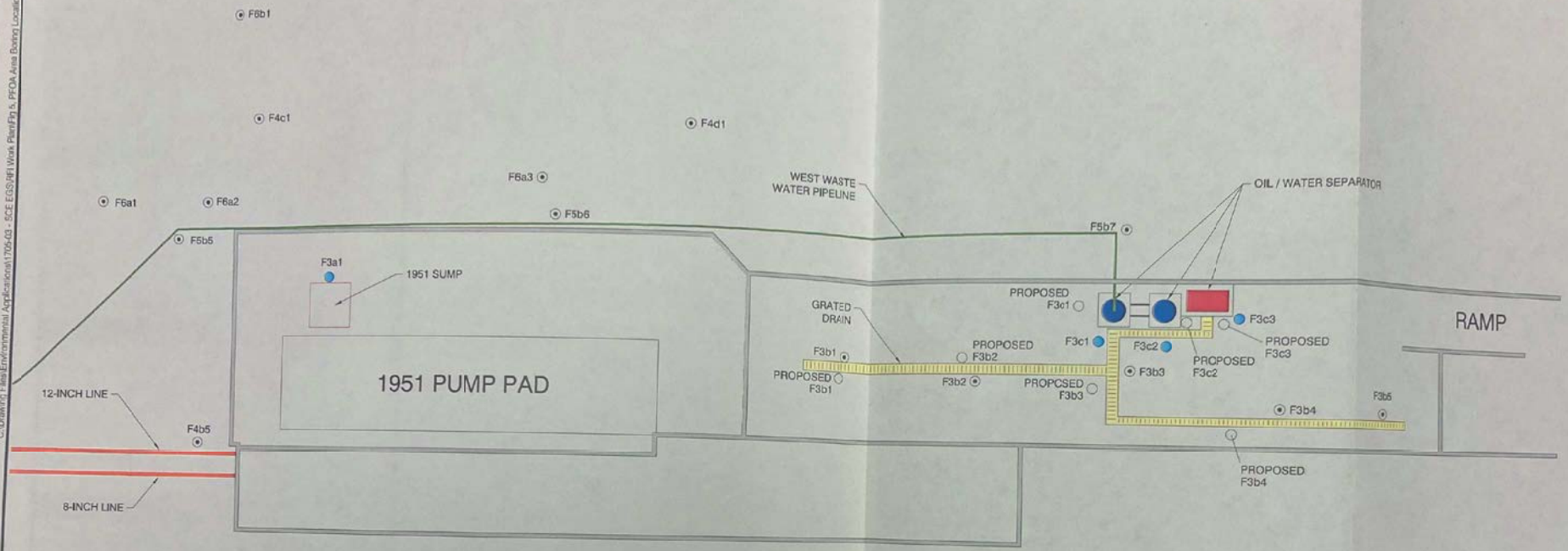
Figure 4 – BORING LOCATIONS

Project: IEUA Portion of
Former Southern California Edison
Etiwanda Generation Station
8998 Etiwanda Avenue
Rancho Cucamonga, California

Project# 1705-03

Date: September 17, 2018

C:\Drawing Files\Environmental Applications\1705-03 - SCE EGS\RFI Work Plan\Fig 5. PFOA Area Boring Locations - 09172018



N

LEGEND

Proposed
- F3c3 — EnvApps Proposed Boring Locations 2017
- F4b5 — EnvApps Boring Locations 2017
- F3a1 — EnvApps Boring and Soil Gas Probe Locations 2017
- Fuel Line
- Waste Water Line

Notes:

PFOA - Primary Fuel Oil-Pumping Area

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0 20 40
APPROXIMATE SCALE IN FEET

Figure 5 – PFOA AREA BORING LOCATIONS

Project: IEUA Portion of
Former Southern California Edison
Etiwanda Generation Station
8998 Etiwanda Avenue
Rancho Cucamonga, California

Project# 1705-03

Date: September 17, 2018



Site Features

Numbers Correspond to Locations on Map.

Feature.	Feature Name
1	Distillate Tank
2	Former Boiler Chemical Cleaning Basin (Closed)
3	South Retention Basin (Closed)
4	North Retention Basin (Closed)
5	Fueling Station
6	Unit 5 (Peaker)
7	Administration Building
8	Decommisioned RO Equip and Basin
9	Laydown Area
10	Units 1 and 2 Cooling Towers
11	Chadwick Channel
12	Unit 4 Cooling Towers
13	Generating Units 3 & 4
14	Haz Waste Accumulation Area
15	Generating Units 1 & 2
16	Warehouse
17	Maintenance Shop
18	Welding Shop
19	Unit 3 Cooling Towers
20	Capped Natural Gas Easement
21	Cooling Tower Makeup Water Pond
22	Construction and Operations Waste
23	Auxiliary Transformer
24	Sulfuric Acid Tank
25	Units 3/4 Transformer
26	Units 1/2 Transformer
27	Acid Caustic Tanks Area
28	Well Water Storage Tank
29	Distilled Water Tanks
30	Cooling Water Tank
31	Fire House (foam)
32	Fire Water Pumps
33	Sludge Drainage Area
34	Northern Fill
35	Hypochlorite Tank
36	Former Hazardous Waste Area
37	Septic Pits
38	Flumes

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Legend

- (23) Site Features (see table)
- Approximate Site Boundary

Adjacent Properties (Parcel Number Shown)

- Southern California Edison
- Inland Empire Utility Agency

0 150 300 600 900 Feet

1 inch = 300 feet
1:3,600

Figure 2

Location Map With Adjacent Properties

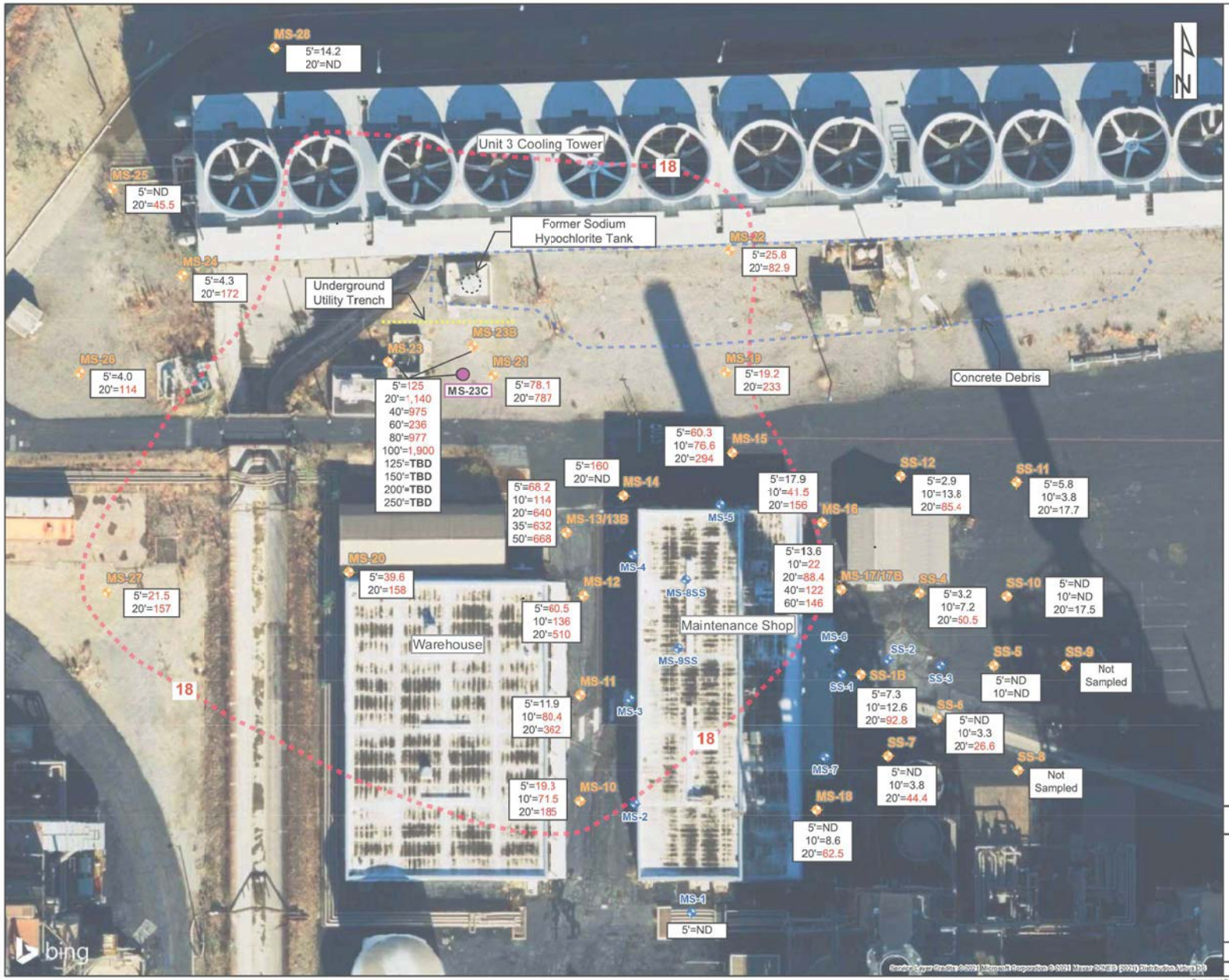
Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
12/2/2021	2119.75

northgate environmental management, inc.

Service Layer Credits: © 2021 Microsoft Corporation © 2021 Maxar ©CNES (2021) Distribution Airbus DS

Document Path: C:\Projects\SCE\Etiwanda\GIS\Map Files\Figure 2_PropBND 021621.mxd



Legend

- ERM/Ardent 2019 Soil Vapor Sample Locations
- Soil Vapor Borings SCE RFI Work Plan (2021)
- Proposed Step-Out/Down Scil Vapor Sample Location
- 18 — Chloroform Isocontour at 5 Feet Below Ground Surface

Notes:
Chloroform concentrations are reported in micrograms per cubic meter (ug/m³) at various sampling depths (feet below ground surface). Concentrations of chloroform exceeding the EPA Regional Screening Level (RSL) of 18 ug/m³ for commercial/ industrial land use are identified in **Red** font (RSL assumes default soil vapor attenuation factor 0.03).

Chloroform RSL when using default attenuation factor 0.001 is 530 ug/m³.

Posted chloroform concentrations represent maximum concentrations where multiple or duplicate samples were collected.

ND: Chloroform was not detected above the laboratory reporting limit of 2 ug/m³.

Feet
0 40 80
1 inch = 40 feet
1:480

Figure 3

Chloroform in Soil Vapor Samples at Maintenance Shop Area

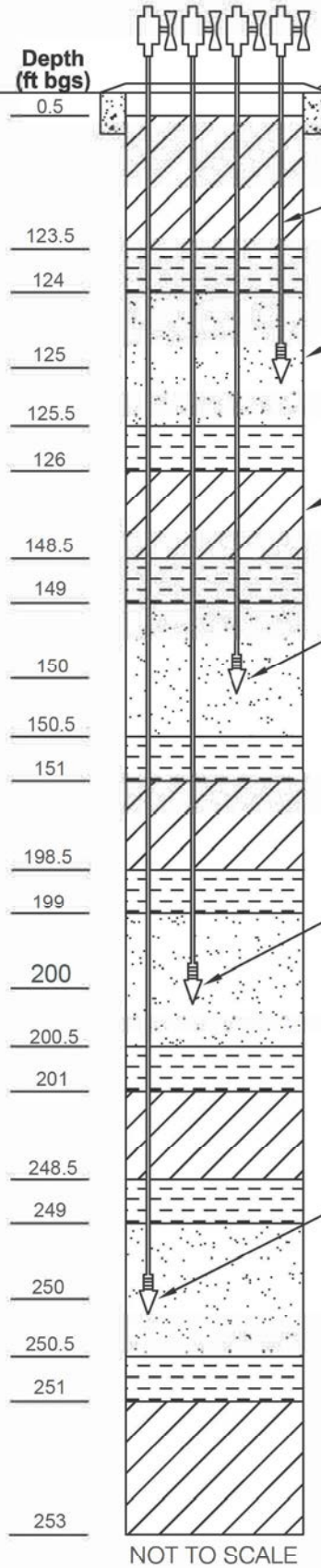
Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
12/2/2021	2119.75

northgate environmental management, inc

Document Path: D:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 11_SamplingLocationsatMain.mxd

D:\Drawing Files\Northgate Environmental_Standard Figures & Forms\Vapor Probe Completion Diagrams 2021-07-12 - 07/15/2021



SURFACE COMPLETION: Well Box Set in Concrete

1/4 " DIA. TUBING

TUBING TYPE: Nylaflow

VAPOR PROBE TYPE: Stainless Steel Implant

6 " LONG x 7/16 " WIDE

PROBE ID: MS-23C-125

8.25 " DIA. BORING

VAPOR PROBE TYPE: Stainless Steel Implant

6 " LONG x 7/16 " WIDE

PROBE ID: MS-23C-150

VAPOR PROBE TYPE: Stainless Steel Implant

6 " LONG x 7/16 " WIDE

PROBE ID: MS-23C-200

VAPOR PROBE TYPE: Stainless Steel Implant

6 " LONG x 7/16 " WIDE

PROBE ID: MS-23C-250

Notes:

- BOREHOLE ID: MS-23C
- INSTALLED BY: ABC Liovin Drilling
  RIG: CME-95 Hollow Stem Auger
- DATE COMPLETED:
- DEPTH TO WATER (ft bgs):
- REMARKS:

LEGEND

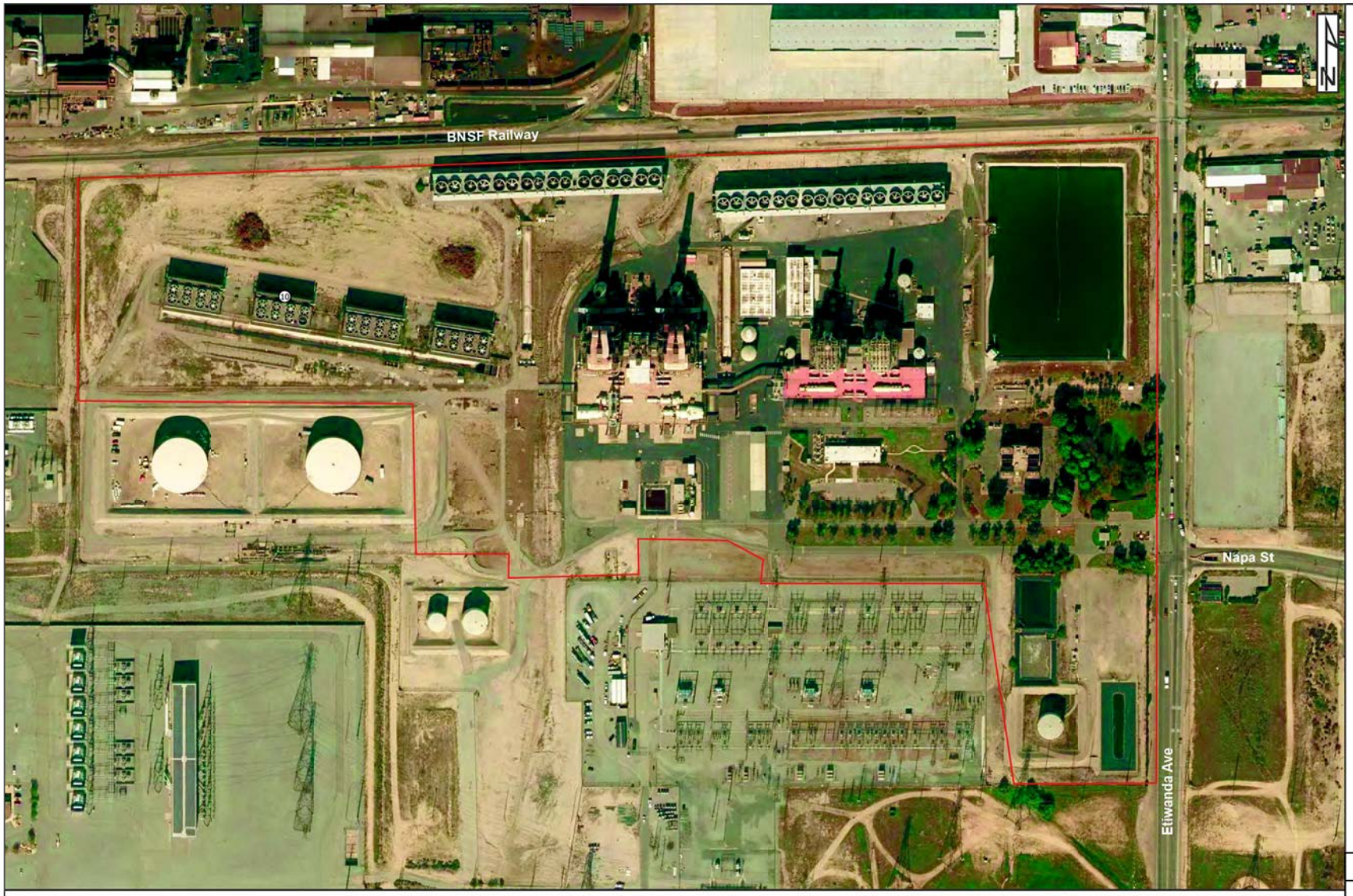
- Hydrated Bentonite Chips
- No. 3 Monterey Sand
- Dry Granular Bentonite

FIGURE 4
Soil Vapor Probe Construction Detail

Project Name : Etiwanda Generating Station
Location : 8996 Etiwanda Avenue, Rancho Cucamonga, CA

northgate
environmental management, inc.
92 Argonaut, Suite 100
Aliso Viejo, California

Project No. 2119.75.09



Legend

- Approximate Site Boundary
- ⑩ Cooling Tower for Units 1 and 2

Service Layer Credits: World Imagery: San Bernardino County, Maxar

0 125 250 500 750 Feet

1" = 250'

1:3,000

FIGURE 1

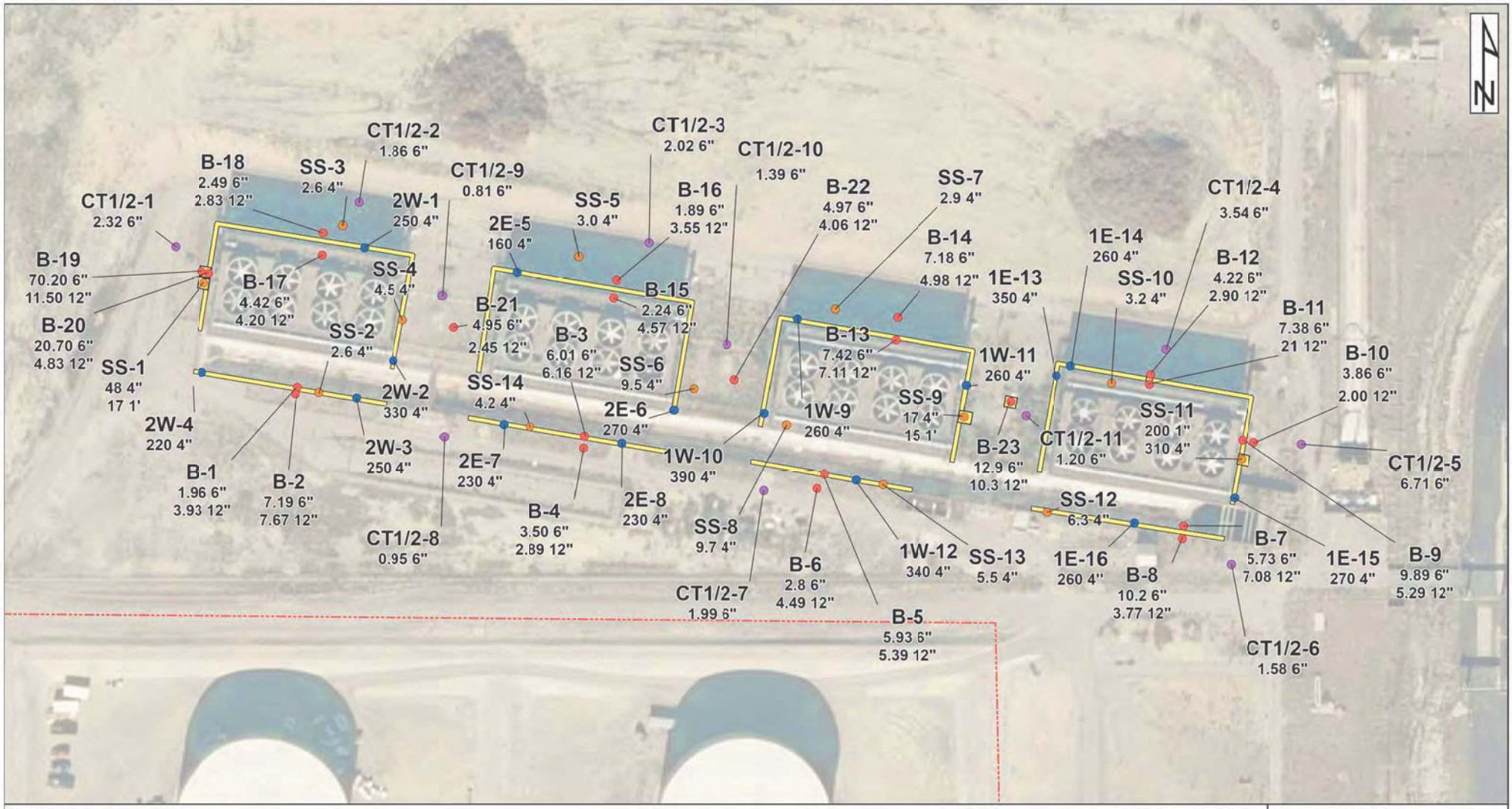
Site Map

Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
9/9/2021	2119.75

northgate

Document Path: D:\ArcGIS\Packages\SCE Etiwanda\Projects\Figure1_v2.aprx



Legend

- Approximate Site Boundary
- URS (2005)
- EARTHTECH (2005)
- ROUX (2021)
- ERM/Ardent (2019)

3.50 6" Arsenic Soil Result (mg/kg) / Depth (inches or feet)

mg/kg Milligrams per kilogram

Proposed Excavation Areas

Notes:
Locations are approximate.

Service Layer Credits: World Imagery: San Bernardino County, Maxar, Microsoft

0 25 50 100 150 Feet

1" = 75'
1:900

FIGURE 2

Previous Arsenic Soil Results and Proposed Excavation Areas

Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
1/5/2022	2119.75

northgate

Document Path: D:\ArcGIS\Packages\SCE Etiwanda\Projects\Figure2_p6.aprx



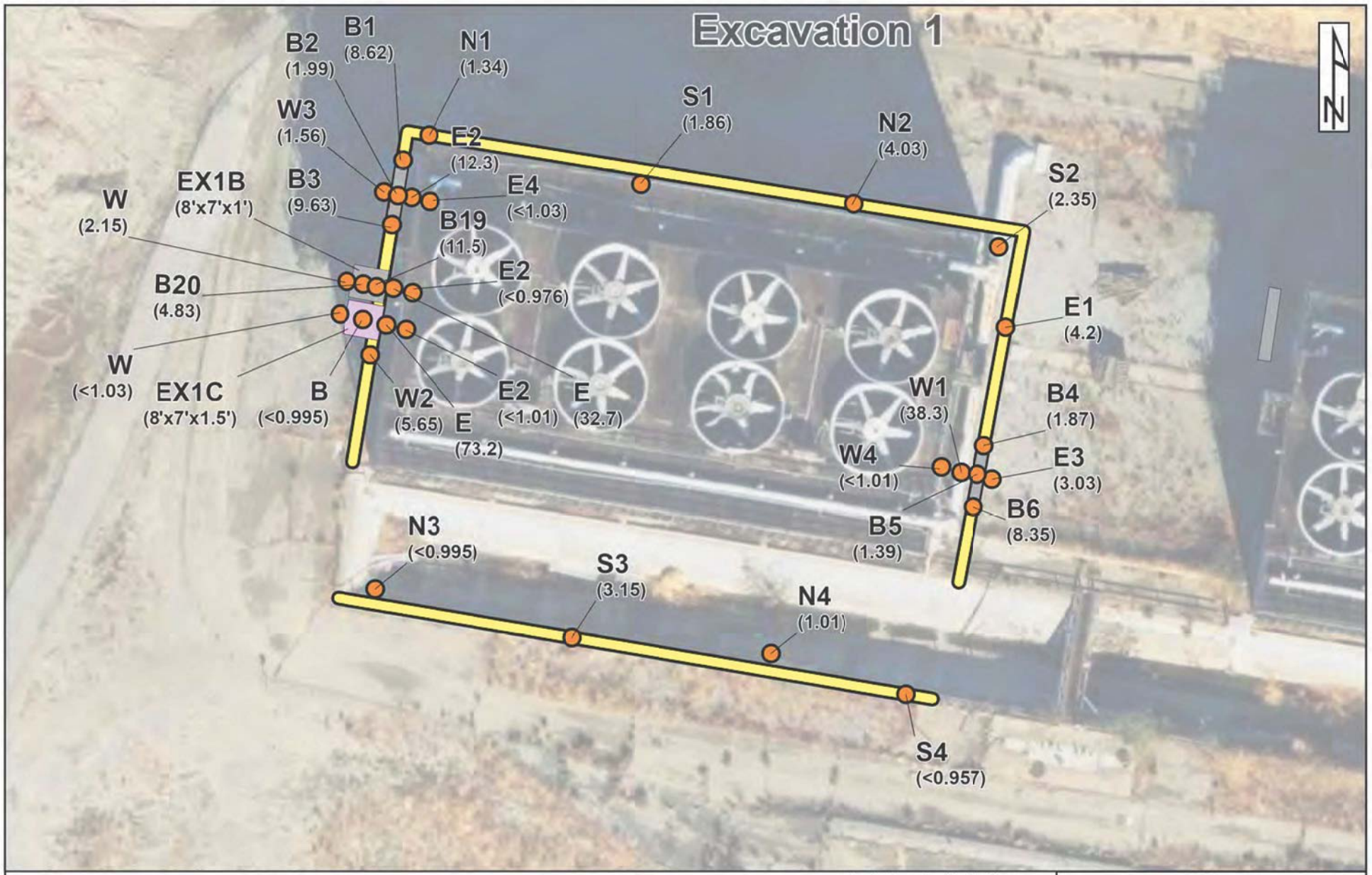
FIGURE 3

Excavation Confirmation Sample Locations

Etiwanda Generating Station Rancho Cucamonga, California

DATE	PROJECT NUMBER	
10/28/2021	2119.75	northgate

Document Path: O:\ArcGIS\Paculigos\SCE Etiwanda\Projects\Figure3_r3.aprx



Legend

- Confirmation Sample Location
- 6 inch Excavation Depth
- 1 foot Excavation Depth
- 1.5 foot Excavation Depth
- **(1.56)** Arsenic Soil Result (mg/kg)
- **(<1.56)** Arsenic Not Detected at Specified Limit (mg/kg)
- mg/kg milligrams per kilogram

Service Layer Credits: Bing Maps
Aerial: © 2021 Microsoft Corporation ©

0 12.5 25 50 Feet

1:420
1" = 35'

FIGURE 4

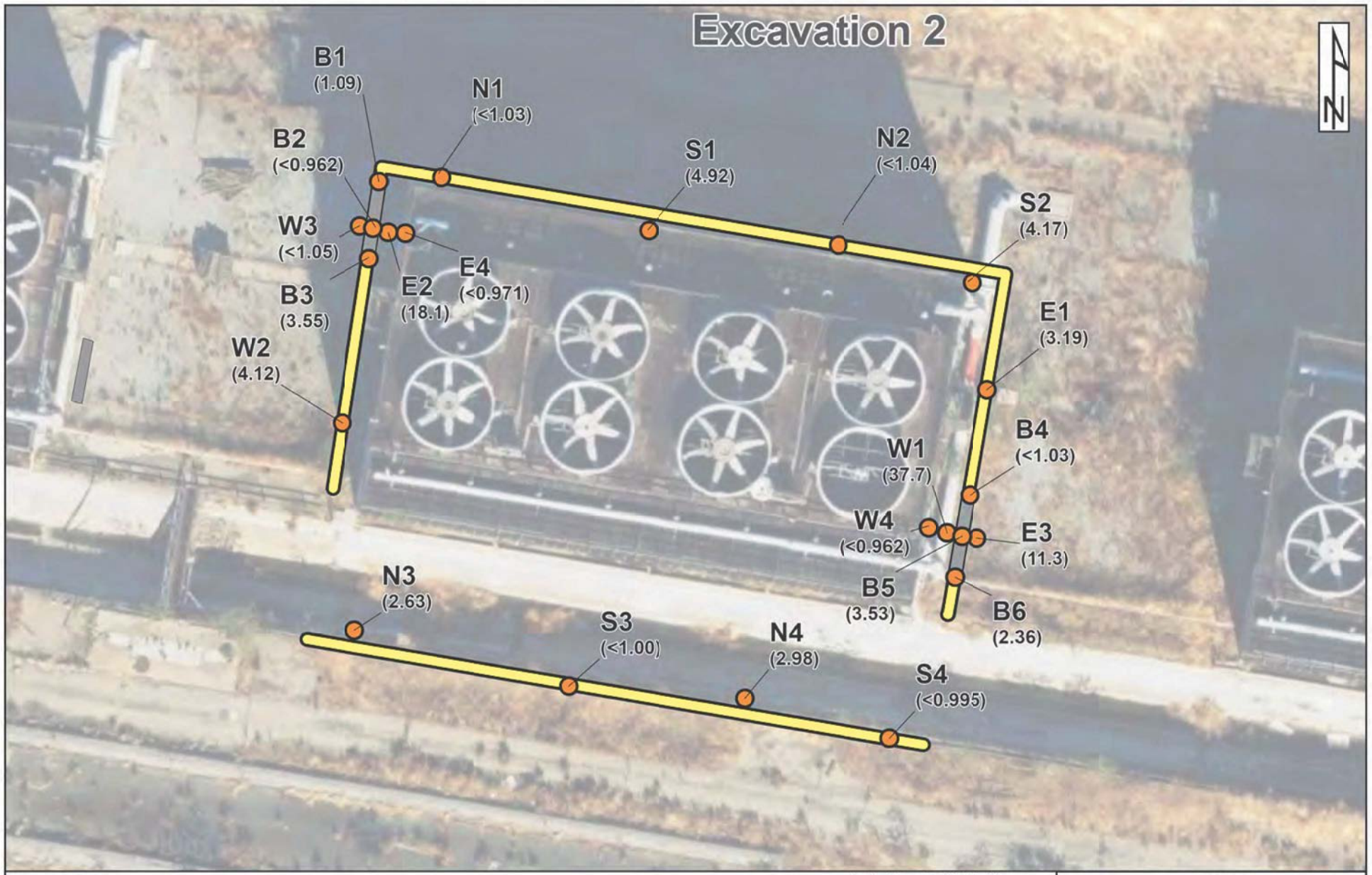
Excavation 1
Arsenic Confirmation Results

Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
10/26/2021	2119.75

northgate environmental management, inc.

Document Path: D:\ArcGIS\Packages\SCE Etiwanda\Projects\Figure4-EXC1v4.aprx



Legend

- Confirmation Sample Location
- 6 inch Excavation Depth
- 1 foot Excavation Depth

(2.63) Arsenic Soil Result (mg/kg)
(<1.00) Arsenic Not Detected at Specified Limit (mg/kg)
mg/kg milligrams per kilogram

Service Layer Credits: Bing Maps
Aerial: © 2021 Microsoft Corporation ©

0 12.5 25 50 Feet
1:420
1" = 35'

FIGURE 5

Excavation 2
Arsenic Confirmation Results
Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
10/27/2021	2119.75

northgate environmental management, inc.

Document Path: D:\ArcGIS\Packages\SCE Etiwanda\Projects\Figure5-EXC2v5.aprx



Legend

- Confirmation Sample Location
- 6 inch Excavation Depth
- 1 foot Excavation Depth
- 2 foot Excavation Depth
- **(1.48)** Arsenic Soil Result (mg/kg)
- **(<1.04)** Arsenic Not Detected at Specified Limit (mg/kg)
- mg/kg milligrams per kilogram

Service Layer Credits: Bing Maps
Aerial: © 2021 Microsoft Corporation ©

0 12.5 25 50 Feet

1:420
1" = 35'

FIGURE 6

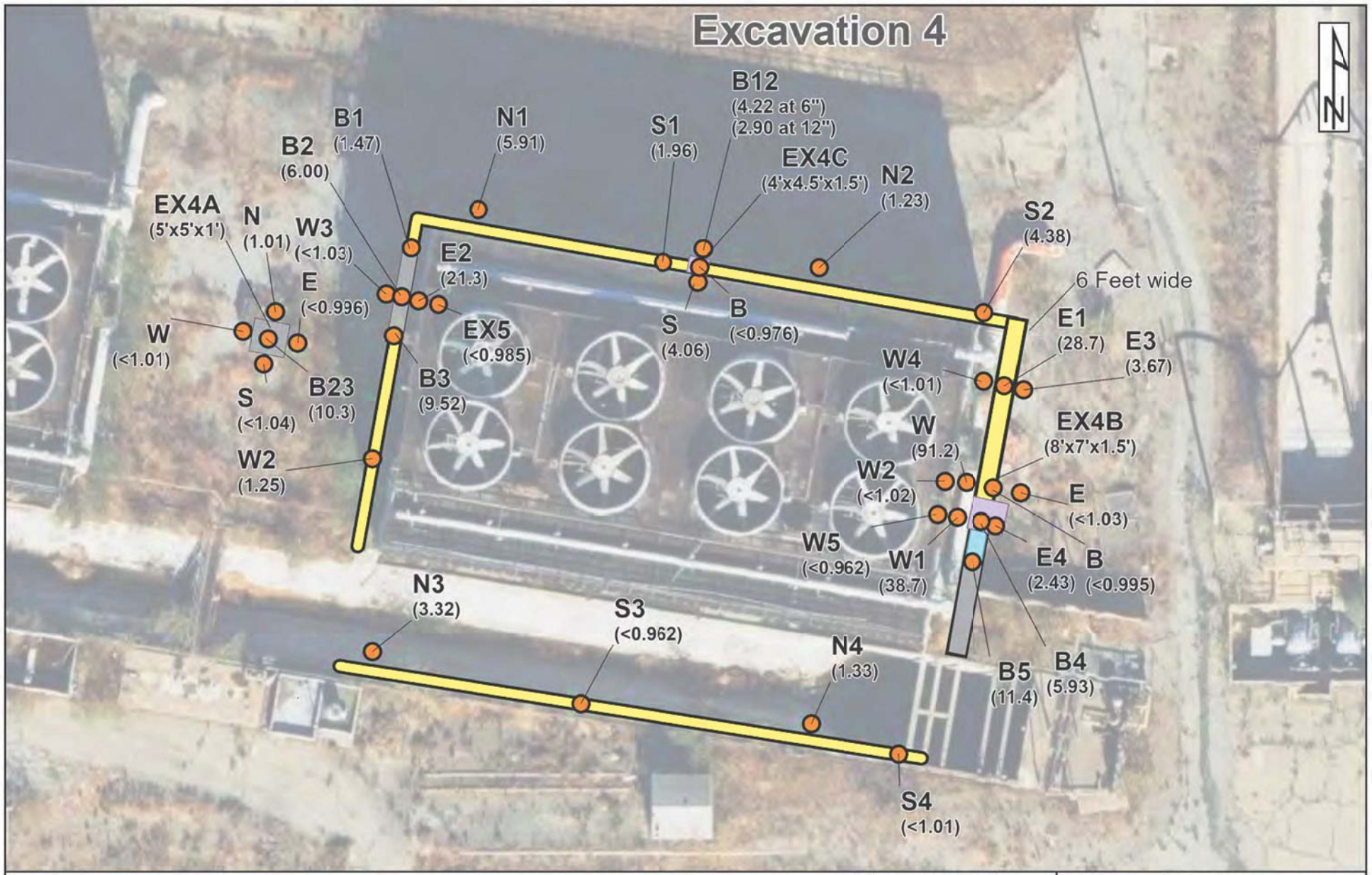
Excavation 3
Arsenic Confirmation Results

Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
10/27/2021	2119.75

northgate environmental management, inc.

Document Path: D:\ArcGIS\Packages\SCE Etiwanda\Projects\Figure6-EXC3_v5.aprx



Legend

- Confirmation Sample Location
- 6 inch Excavation Depth
- 1 foot Excavation Depth
- 1.5 foot Excavation Depth
- 2 feet Excavation Depth
- **(3.32)** Arsenic Soil Result (mg/kg)
- **(<1.01)** Arsenic Not Detected at Specified Limit (mg/kg)
- mg/kg milligrams per kilogram

Service Layer Credits: Bing Maps
Aerial: © 2021 Microsoft Corporation ©

0 12.5 25 50 Feet

1:429
1" = 35'

FIGURE 7

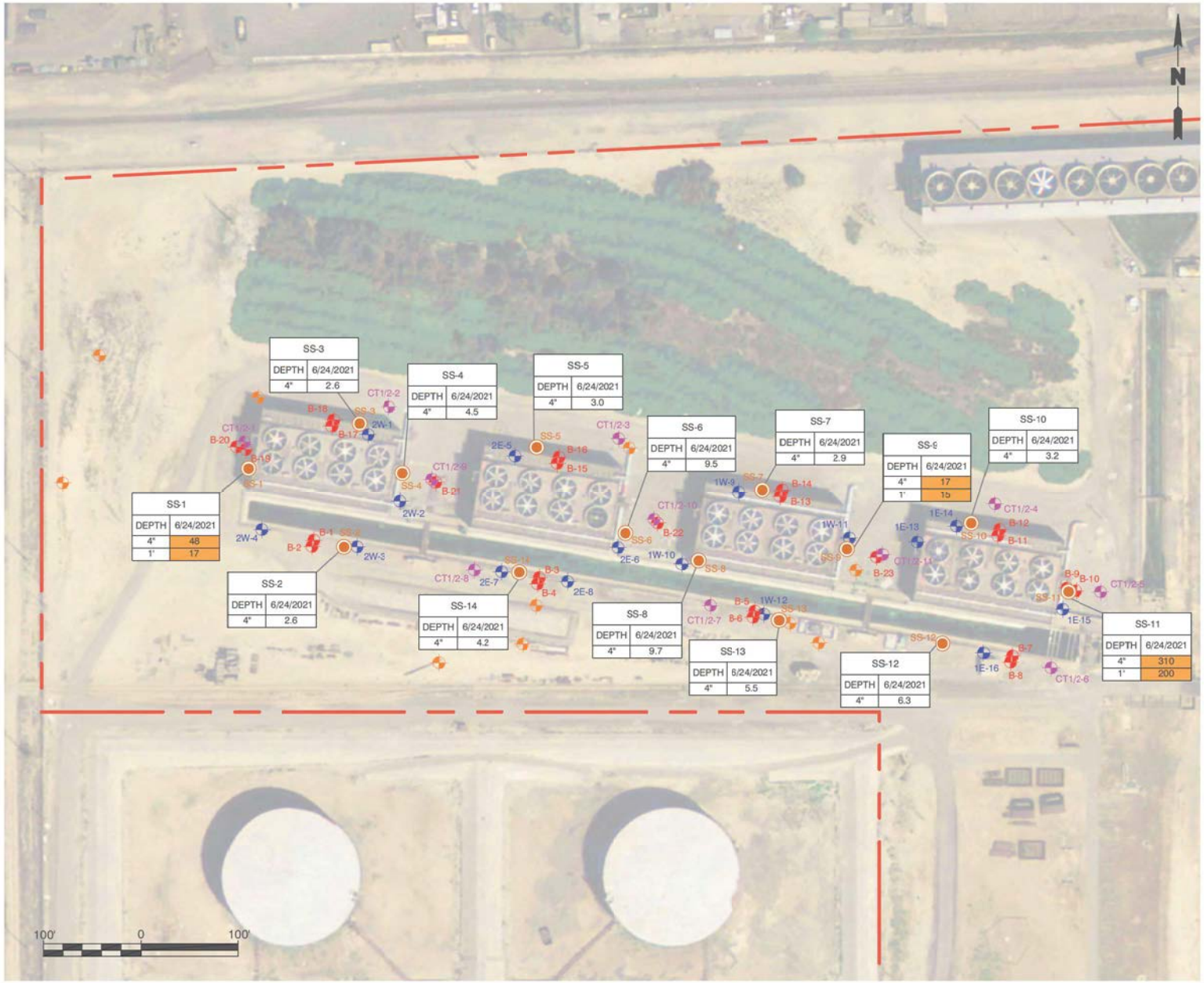
Excavation 4
Arsenic Confirmation Results

Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
10/27/2021	2119.15

northgate environmental management, inc.

Document Path: D:\ArcGIS\Packages\SCE Etiwanda\Projects\Figure7-EXC4_v6.aprx



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- GERAGHTY & MILLER (SEPT. 1997)
- URS (2005)
- EARTHTECH (2005)
- ERM/ARDENT (2019)
- ROUX (2021)

NOTES

1) ARSENIC CONCENTRATIONS PROVIDED ARE IN UNITS OF MILLIGRAMS PER KILOGRAM (mg/kg)
2) CELLS HIGHLIGHTED IN ORANGE EXCEED THE UPPER CONFIDENCE LIMIT OF 12.0 MG/KG IN CALIFORNIA BACKGROUND SOILS (DETERMINATION OF A SOUTHERN CALIFORNIA REGIONAL BACKGROUND ARSENIC CONCENTRATION IN SOIL, DTSC, 2008)

Title:

SHALLOW SOIL ARSENIC INVESTIGATION

8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CALIFORNIA

Prepared For:

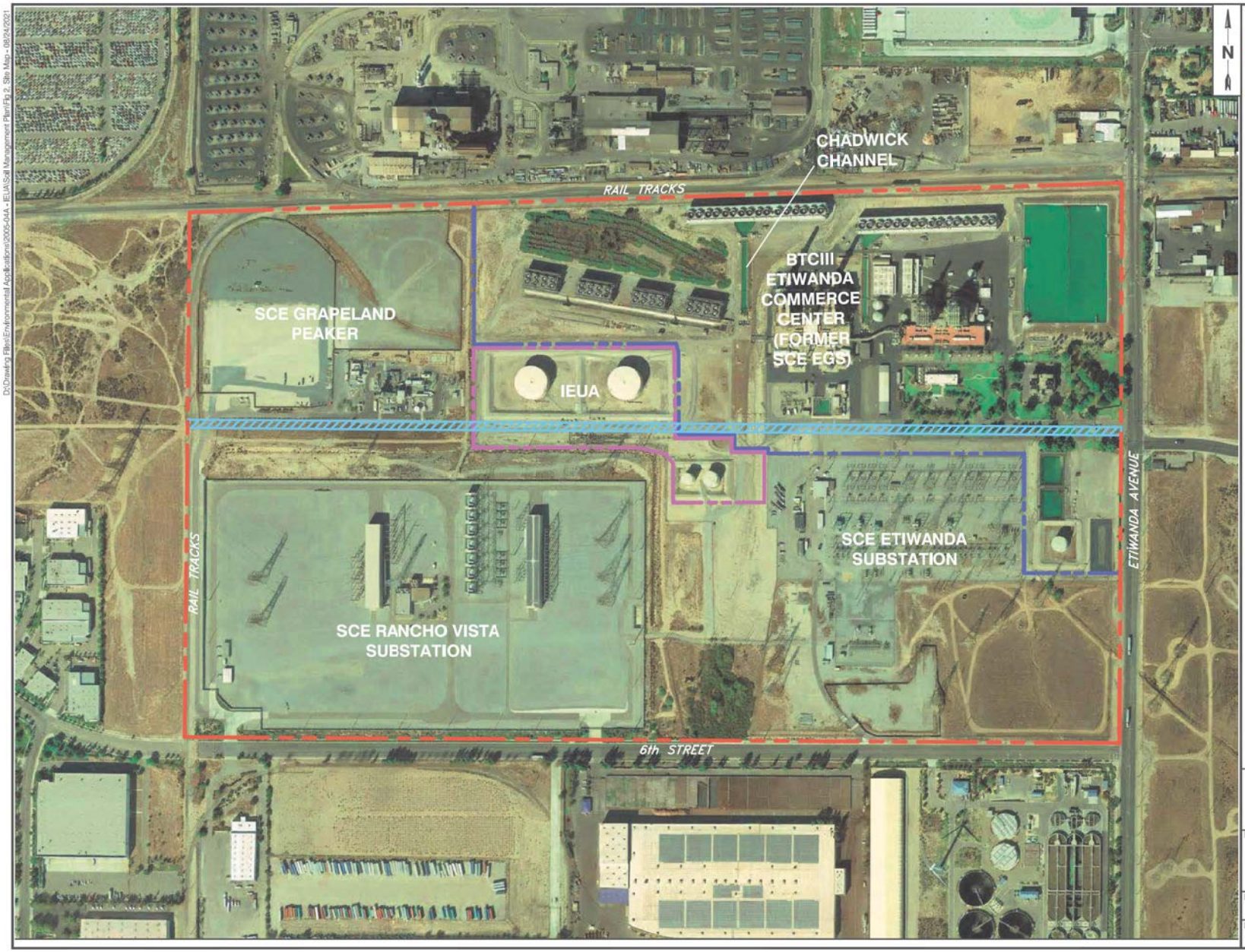
BTC III ETIWANDA
COMMERCE CENTER

ROUX

Compiled by:	A.MOK	Date:	30 JUN 2021	FIGURE
Prepared by:	A.MOK	Scale:	AS SHOWN	1
Project Mgr:	M.N.	Project:	3653.0001L	
File:	004_3653.0003L_CT 1 & 2 (WITH AS DATA).DWG			

\\SRVLACAFP1\LA SHARED\CLIENTS\3653.0001L BCG CUCAMONGA MHE\10CAD\004_3653.0003L_CT 1 & 2 (WITH AS DATA).DWG

D:\Drawing Files\Environmental Applications\2005-04A - IEUA\Soil Management Plan\Fig 2. Site Map - 08.24.2021



LEGEND

- Former SCE EGS Property Line
- Metropolitan Water District (MWD) 30-Foot Easement
- IEUA Property Line
- NRG EGS Property Line

0 400 800

APPROXIMATE SCALE IN FEET

ENVAPPS
Environmental Applications, Inc.
2130 Huntington Drive, Suite 300
South Pasadena, California 91030

SITE MAP

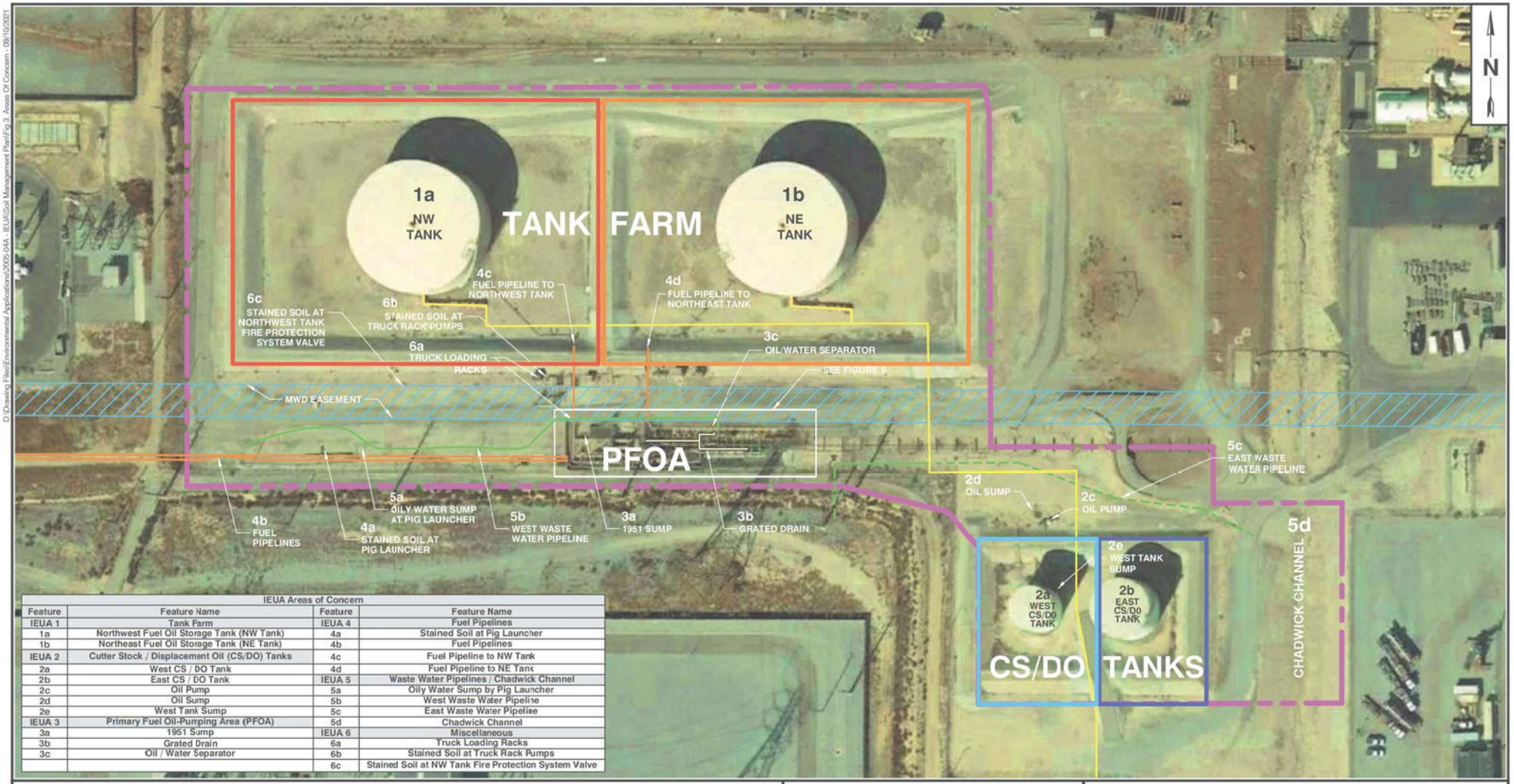
Project: IEUA Portion of
Former Southern California Edison
Etiwanda Generation Station
8998 Etiwanda Avenue
Rancho Cucamonga, California

Project Number: 2005-04A

Date: August 24, 2021

Figure: 2

D:\Drawing Files\Environmental Applications\2005-04A - IEUA\Soil Management Plan\Fig 3, Areas Of Concern - 09/10/2021



IEUA Areas of Concern			
Feature	Feature Name	Feature	Feature Name
IEUA 1	Tank Farm	IEUA 4	Fuel Pipelines
1a	Northwest Fuel Oil Storage Tank (NW Tank)	4a	Stained Soil at Pig Launcher
1b	Northeast Fuel Oil Storage Tank (NE Tank)	4b	Fuel Pipelines
IEUA 2	Cutter Stock / Displacement Oil (CS/DO) Tanks	4c	Fuel Pipeline to NW Tank
2a	West CS / DO Tank	4d	Fuel Pipeline to NE Tank
2b	East CS / DO Tank	IEUA 5	Waste Water Pipelines / Chadwick Channel
2c	Oil Pump	5a	Oily Water Sump by Pig Launcher
2d	Oil Sump	5b	West Waste Water Pipeline
2e	West Tank Sump	5c	East Waste Water Pipeline
IEUA 3	Primary Fuel Oil-Pumping Area (PFOA)	5d	Chadwick Channel
3a	1951 Sump	IEUA 6	Miscellaneous
3b	Grated Drain	6a	Truck Loading Racks
3c	Oil / Water Separator	6b	Stained Soil at Truck Rack Pumps
		6c	Stained Soil at NW Tank Fire Protection System Valve

LEGEND

- Fuel Lines
- Waste Water Lines
- IEUA Water Line
- MWD Easement
- IEUA Property Line
- Grated Drain

Notes:

PFOA - Primary Fuel Oil-Pumpirg Area
CS/DO - Cutter Stock/Displacement Oil

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South Pasadena, California 91030

0 100 200
APPROXIMATE SCALE IN FEET

Figure 3 – AREAS OF CONCERN

Project: IEUA Portion of
Former Southern California Edison
Etiwanda Generation Station
8998 Etiwanda Avenue
Rancho Cucamonga, California

Project# 2005-04A

Date: August 24, 2021

D:\Drawing Files\Environmental Applications\P2005-04 - IEUA Excavation\Fig 3, F1a1 Excavation - 11/02/2020



LEGEND

F1a1 EnvApps Boring Locations 2017

F1a15 EnvApps Boring Locations 2020

IEUA Water Line

ENVAPPS
Environmental Applications, Inc.

2130 Huntington Drive, Suite 300
South Pasadena, California 91030

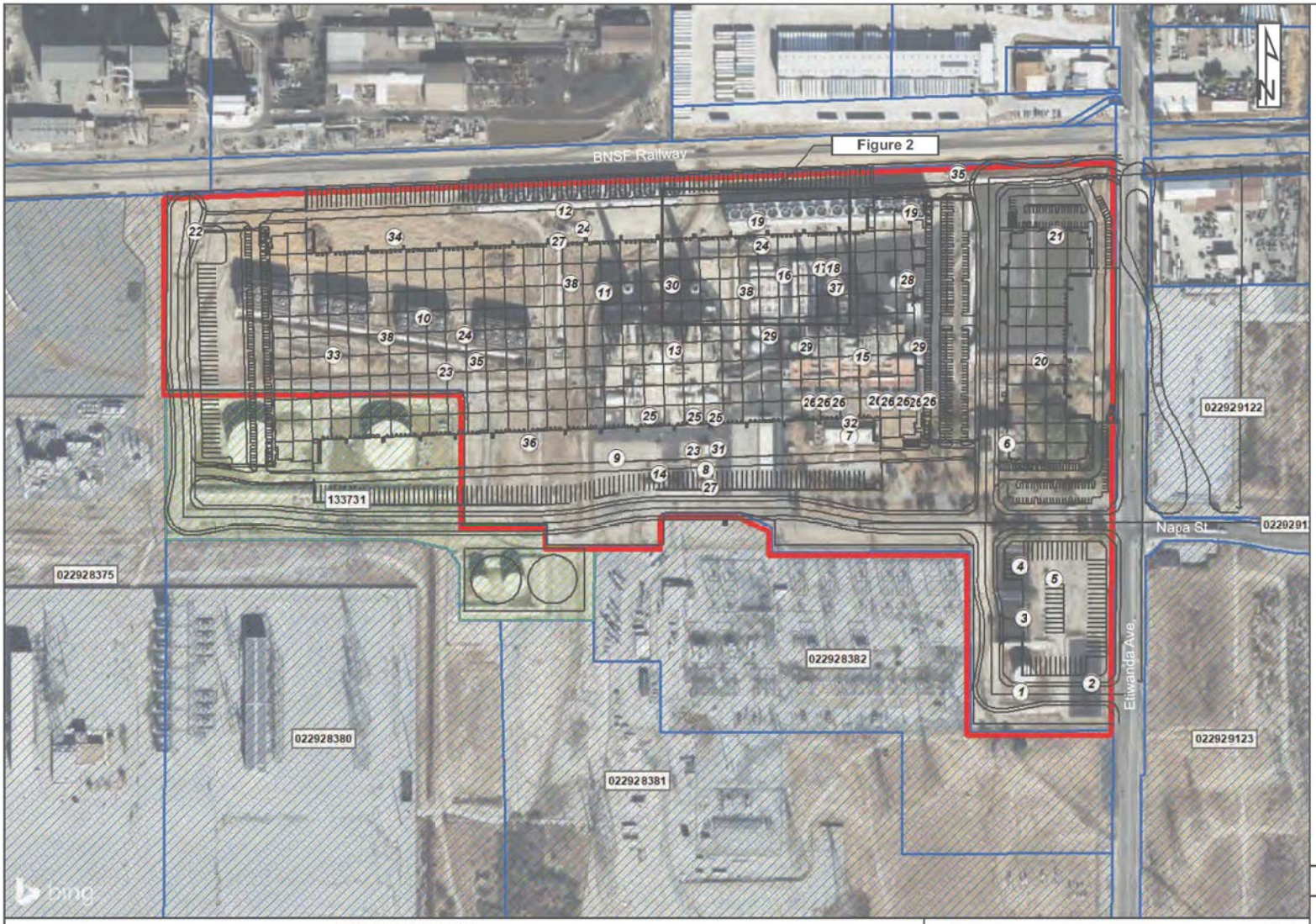
0 20 40
APPROXIMATE SCALE IN FEET

Figure 3 – F1a1 EXCAVATION

Project: IEUA Portion of
Former Southern California Edison
Etiwanda Generation Station
8998 Etiwanda Avenue
Rancho Cucamonga, California

Proposal# 2005-04

Date: November 2, 2020



Site Features

Numbers Correspond to Locations on Map.

Feature.	Feature Name
1	Distillate Tank
2	Former Boiler Chemical Cleaning Basin (Closed)
3	South Retention Basin (Closed)
4	North Retention Basin (Closed)
5	Fusing Station
6	Unit 5 (Peaker)
7	Administration Building
8	Decommisioned RO Equip and Basin
9	Laydown Area
10	Units 1 and 2 Cooling Towers
11	Chadwick Channel
12	Unit 4 Cooling Towers
13	Generating Units 3 & 4
14	Haz Waste Accumulation Area
15	Generating Units 1 & 2
16	Warehouse
17	Maintenance Shop
18	Welding Shop
19	Unit 3 Cooling Towers
20	Capped Natural Gas Easment
21	Cooling Tower Makeup Water Pond
22	Construction and Operations Waste
23	Auxiliary Transformer
24	Sulfuric Acid Tank
25	Units 3/4 Transformer
26	Units 1/2 Transformer
27	Acid Caustic Tanks Area
28	Well Water Storage Tank
29	Distilled Water Tanks
30	Cooling Water Tank
31	Fire House (foam)
32	Fire Water Pumps
33	Sludge Drainage Area
34	Northern Fill
35	Hypochlorite Tank
36	Former Hazardous Waste Area
37	Septic Pits
38	Flumes

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services. Preliminary Future Commercial Site Plan Features are based on Preliminary Site Plan - Scheme 6.20 drafted by RGA and dated August 19, 2021.

Legend

- (23) Site Features (see table)
- Approximate Site Boundary

Adjacent Properties (Parcel Number Shown)

- Southern California Edison
- Inland Empire Utility Agency

Preliminary Future Commercial Site Plan Features

0 150 300 600 900 Feet

1 inch = 300 feet
1:3,600

Figure 1

Location Map With Adjacent Properties

Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
3/10/2022	2169.09

northgate environmental management, inc.

Service Layer Credits: © 2022 Microsoft Corporation © 2022 Maxar ©CNES (2022) Distribution Airbus DS

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\Figure 2_PropBND_0322.mxd



Legend

- ERM/Ardent 2019 Soil Vapor Sample Locations
- Soil Vapor Borings SCE RFI Work Plan
- Soil Borings SCE RFI Work Plan
- Proposed Groundwater and Soil Vapor Boring
- Future Site Redevelopment Features (Preliminary)

Note: Future Site Redevelopment Features based on Preliminary Site Plan - Scheme 6.20 drafted by RGA and dated August 19, 2021

0 40 80 Feet

1 inch = 40 feet
1:480

Figure 2

Sampling Locations at Maintenance Shop Area

Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER	
3/24/2022	2119.75	northgate environmental management, inc

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI Work Plan\Figure 11_SamplingLocationsatMain_rev2.mxd



Legend

- ERM/Ardent 2019 Soil Vapor Sample Locations
- Soil Vapor Borings SCE RFI Work Plan
- Soil Borings SCE RFI Work Plan
- Proposed Groundwater and Soil Vapor Boring
- 800 Chloroform Isocontour at 20 Feet Below Ground Surface
- Line of Cross-Section

Notes:

Chloroform concentrations are reported in micrograms per cubic meter (ug/m³) at various sampling depths (feet below ground surface). Concentrations of chloroform exceeding the EPA Regional Screening Level (RSL) of 18 ug/m³ for commercial/industrial land use are identified in **Red** font (RSL assumes default soil vapor attenuation factor 0.03).

Chloroform RSL when using default attenuation factor 0.001 is 530 ug/m³.

Posted chloroform concentrations represent maximum concentrations where multiple or duplicate samples were collected.

ND: Chloroform was not detected above the laboratory reporting limit (generally 2 ug/m³).

0 40 80 Feet

1 inch = 40 feet
1:480

Figure 3

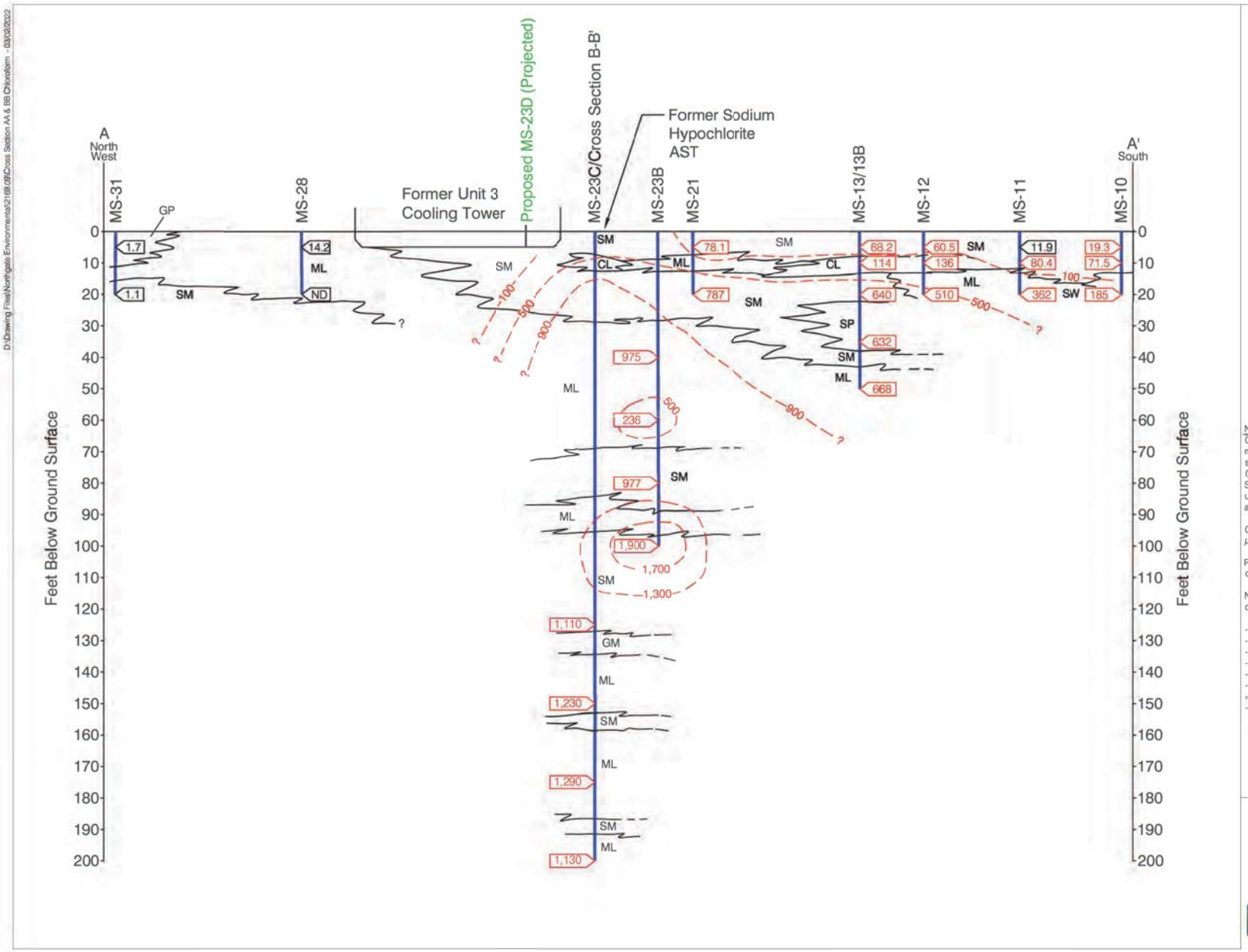
Chloroform in Soil Vapor at Maintenance Shop Area

Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
3/24/2022	2119.75

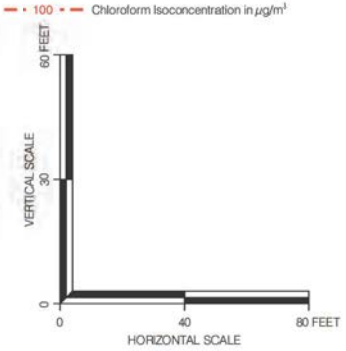
northgate environmental management, inc.

Document Path: D:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 11_SamplingLocationsatMain.mxd



LEGEND

- Soil Boring
- 11.9 Chloroform Concentration below 18 $\mu g/m^3$
- 19.3 Chloroform Concentration Above 18 $\mu g/m^3$
- 100 Chloroform Isoconcentration in $\mu g/m^3$



Notes

Chloroform concentrations are reported in micrograms per cubic meter ($\mu g/m^3$) at various sampling depths (feet below ground surface).

Concentrations of chloroform exceeding the EPA Regional Screening Level (RSL) of 18 $\mu g/m^3$ for commercial/industrial land use are identified in Red font (RSL assumes default soil vapor attenuation factor 0.03).

Chloroform RSL when using default attenuation factor 0.001 is 530 $\mu g/m^3$.

Posted chloroform concentrations represent maximum concentrations where multiple or duplicate samples are collected.

ND: Chloroform was not detected above laboratory reporting limit of 2 $\mu g/m^3$.

- CL - Low Plasticity Clay
- ML - Low Plasticity Silt
- SM - Silty Sand
- SP - Poorly-Graded Sand
- SW - Well-Graded Sand
- GM - Silty Gravel
- GP - Poorly-Graded Gravel
- Base Map Sources:
  Northgate Environmental Management, Ediwanda Gererating Station, Figure 11A, 2/14/2022

FIGURE 3A
Geologic Cross-Section A-A'
With Chloroform Concentrations

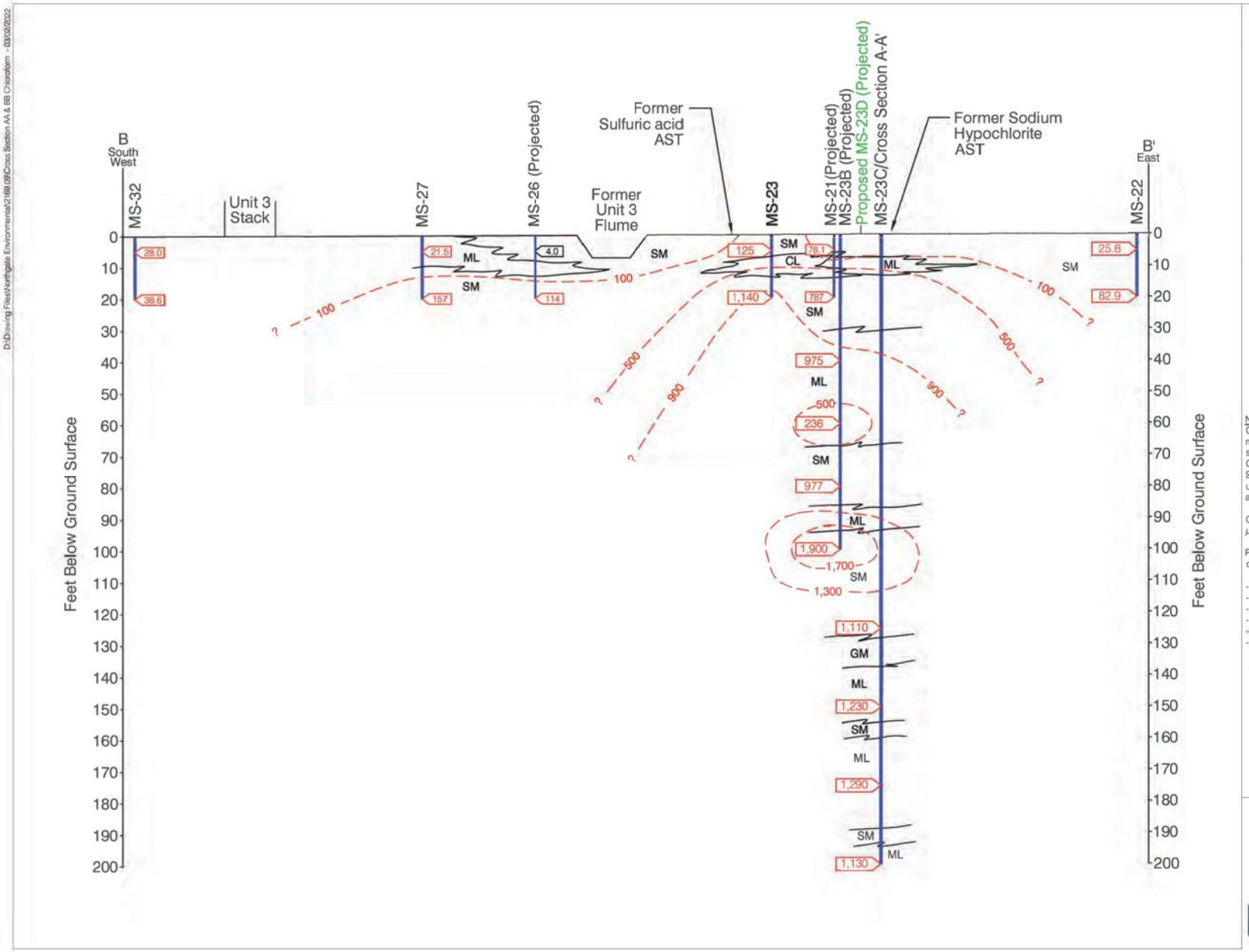
Etiwanda Generating Station
8996 Etiwanda Ave, Rancho Cucamonga, California

northgate
environmental management, inc.

2119.75

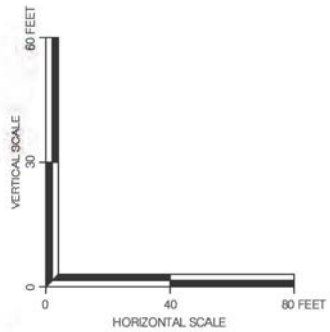
D:\Drawing Files\Northgate Environmental\2119.09\Cross Section AA & BB Chloroform - 03/02/2022

D:\Drawing Files\Northgate Environmental\2119.09\Cross Section AA & BB Chloroform - 03/02/2022



LEGEND

- Soil Boring
- 11.9 — Chloroform Concentration below 18 $\mu g/m^3$
- 19.3 — Chloroform Concentration Above 18 $\mu g/m^3$
- 100 — Chloroform Isoconcentration in $\mu g/m^3$



Notes:

Chloroform concentrations are reported in micrograms per cubic meter ($\mu g/m^3$) at various sampling depths (feet below ground surface).

Concentrations of chloroform exceeding the EPA Regional Screening Level (RSL) of 18 $\mu g/m^3$ for commercial/industrial land use are identified in Red font (RSL assumes default soil vapor attenuation factor 0.03).

Chloroform RSL when using default attenuation factor 0.001 is 530 $\mu g/m^3$.

Posted chloroform concentrations represent maximum concentrations where multiple or duplicate samples are collected.

- CL - Low Plasticity Clay
- ML - Low Plasticity Silt
- SM - Silty Sand
- GM - Silty Gravel
-
- Base Map Sources:
  Northgate Environmental Management, Edwanda Generating Station, Figure 11A, 2/14/2022

FIGURE 3B
Geologic Cross-Section B-B'
With Chloroform Concentrations

Etiwanda Generating Station
8996 Etiwanda Ave, Rancho Cucamonga, California

northgate environmental management, inc.

2119.75



Legend

- ERM/Ardent 2019 Soil Vapor Sample Locations
- Soil Vapor Borings SCE RFI Work Plan
- Soil Borings SCE RFI Work Plan
- Proposed Groundwater and Soil Vapor Boring
- 100 — Carbon Tetrachloride Isocontour at 20 Feet Below Ground Surface
- Line of Cross-Section

Notes:

Carbon Tetrachloride concentrations are reported in micrograms per cubic meter (ug/m³) at various sampling depths (feet below ground surface). Concentrations of carbon tetrachloride exceeding the EPA Regional Screening Level (RSL) of 67 ug/m³ for commercial/industrial land use are identified in Red font (RSL assumes default soil vapor attenuation factor 0.03).

Carbon tetrachloride RSL when using default attenuation factor 0.001 is 2,000 ug/m³.

Posted carbon tetrachloride concentrations represent maximum concentrations where multiple or duplicate samples were collected.

ND: Carbon Tetrachloride was not detected above the laboratory reporting limit of 1 ug/m³.

0 40 80 Feet

1 inch = 40 feet
1:480

Figure 4

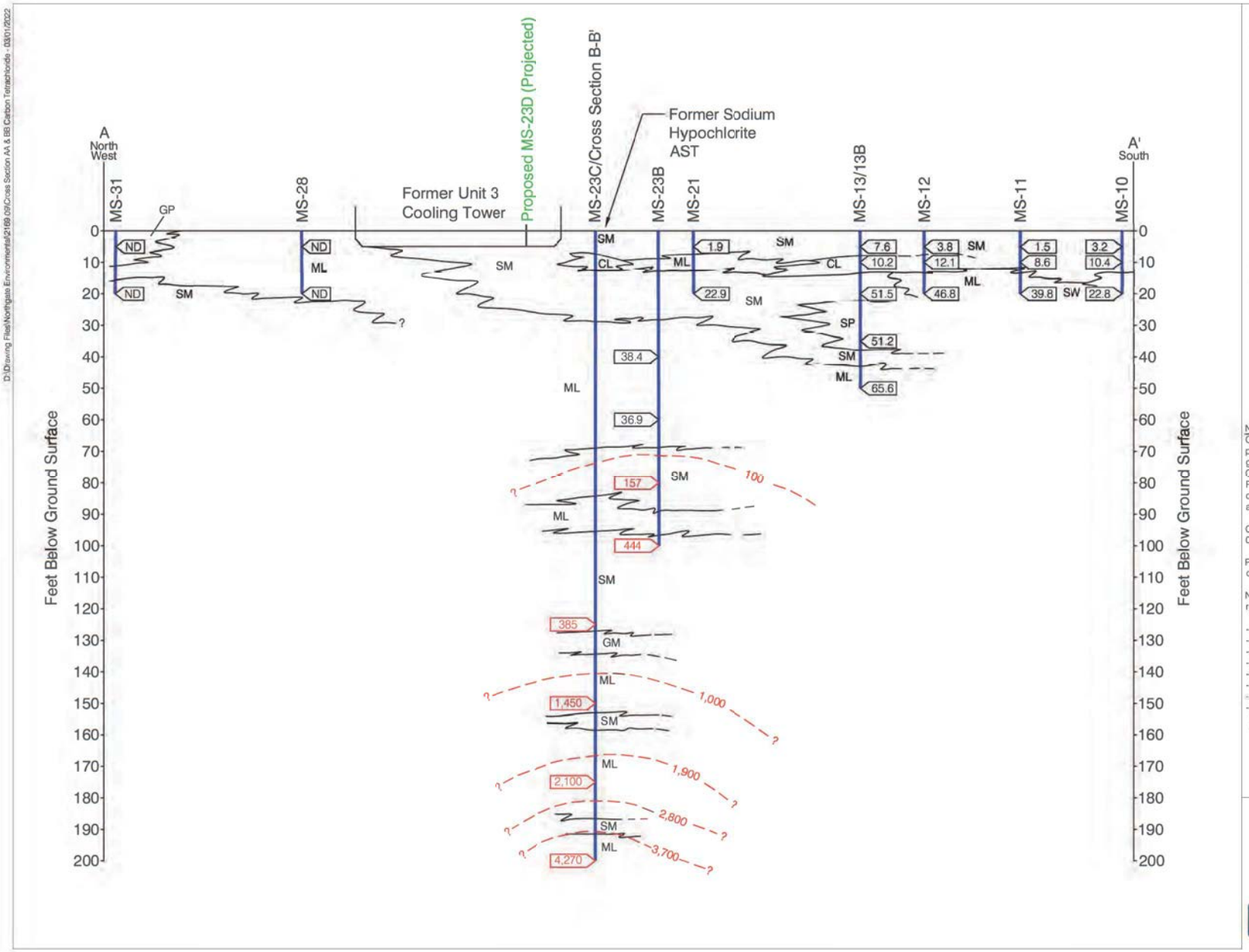
Carbon Tetrachloride in Soil Vapor at Maintenance Shop Area

Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER	
3/24/2022	2119.75	northgate environmental management, inc.

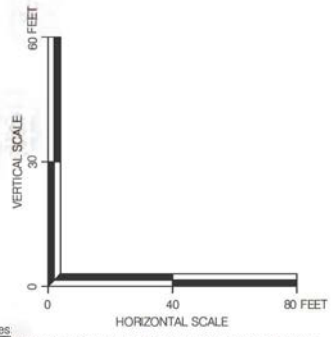
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D:\Drawing Files\Northgate Environmental\2169.09\Cross Section AA & BB Carbon Tetrachloride - 03/01/2022



LEGEND

- Soil Boring
- 10.4 — Carbon Tetrachloride Concentration below 67 µg/m³
- 157 — Carbon Tetrachloride Concentration Above 67 µg/m³
- 100 — Carbon Tetrachloride Isoconcentration in µg/m³



Notes

Carbon Tetrachloride concentrations are reported in micrograms per cubic meter (µg/m³) at various sampling depths (feet below ground surface).

Concentrations of carbon tetrachloride exceeding the EPA Regional Screening Level (RSL) of 67 µg/m³ for commercial/industrial land use are identified in Red font (RSL assumes default soil vapor attenuation factor 0.03).

Carbon tetrachloride RSL when using default attenuation factor 0.001 is 2,000 µg/m³.

Posted carbon tetrachloride concentrations represent maximum concentrations where multiple or duplicate samples are collected.

ND: Carbon Tetrachloride was not detected above laboratory reporting limit of 1 µg/m³.

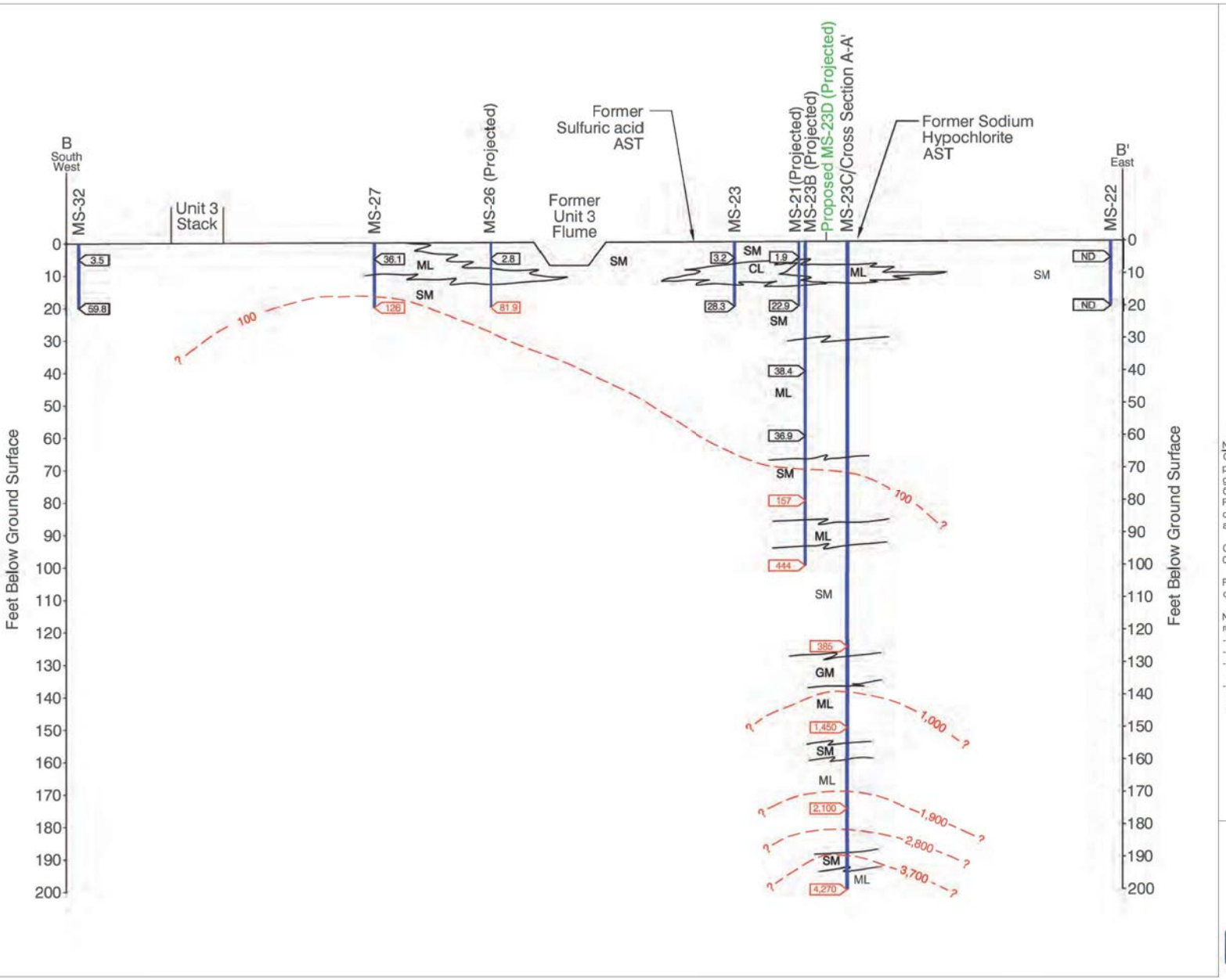
- CL - Low Plasticity Clay
- ML - Low Plasticity Silt
- SM - Silty Sand
- SP - Poorly-Graded Sand
- SW - Well-Graded Sand
- GM - Silty Gravel
- GP - Poorly-Graded Gravel
- Base Map Sources:
  Northgate Environmental Management, Ediwanda Gererating Station, Figure 11C, 2/14/2022

FIGURE 4A
Geologic Cross-Section A-A' With Carbon Tetrachloride Concentrations
Etiwanda Generating Station
8996 Etiwanda Ave, Rancho Cucamonga, California

northgate environmental management, inc.

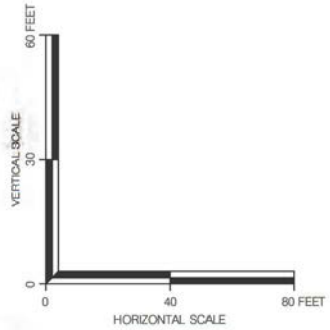
2119.75

D:\Drawing Files\Northgate Environmental\2169.09\Cross Section AA & BB Carbon Tetrachloride - 03/01/2022



LEGEND

- Soil Boring
- 22.9 Carbon Tetrachloride Concentration below 67 µg/m³
- 157 Carbon Tetrachloride Concentration Above 67 µg/m³
- 100 Carbon Tetrachloride Isoconcentration in µg/m³



Notes

Carbon Tetrachloride concentrations are reported in micrograms per cubic meter (µg/m³) at various sampling depths (feet below ground surface).

Concentrations of carbon tetrachloride exceeding the EPA Regional Screening Level (RSL) of 67 µg/m³ for commercial/industrial land use are identified in Red font (RSL assumes default soil vapor attenuation factor 0.03).

Carbon tetrachloride RSL when using default attenuation factor 0.001 is 2,000 µg/m³.

Posted carbon tetrachloride concentrations represent maximum concentrations where multiple or duplicate samples are collected.

ND: Carbon Tetrachloride was not detected above laboratory reporting limit of 1 µg/m³.

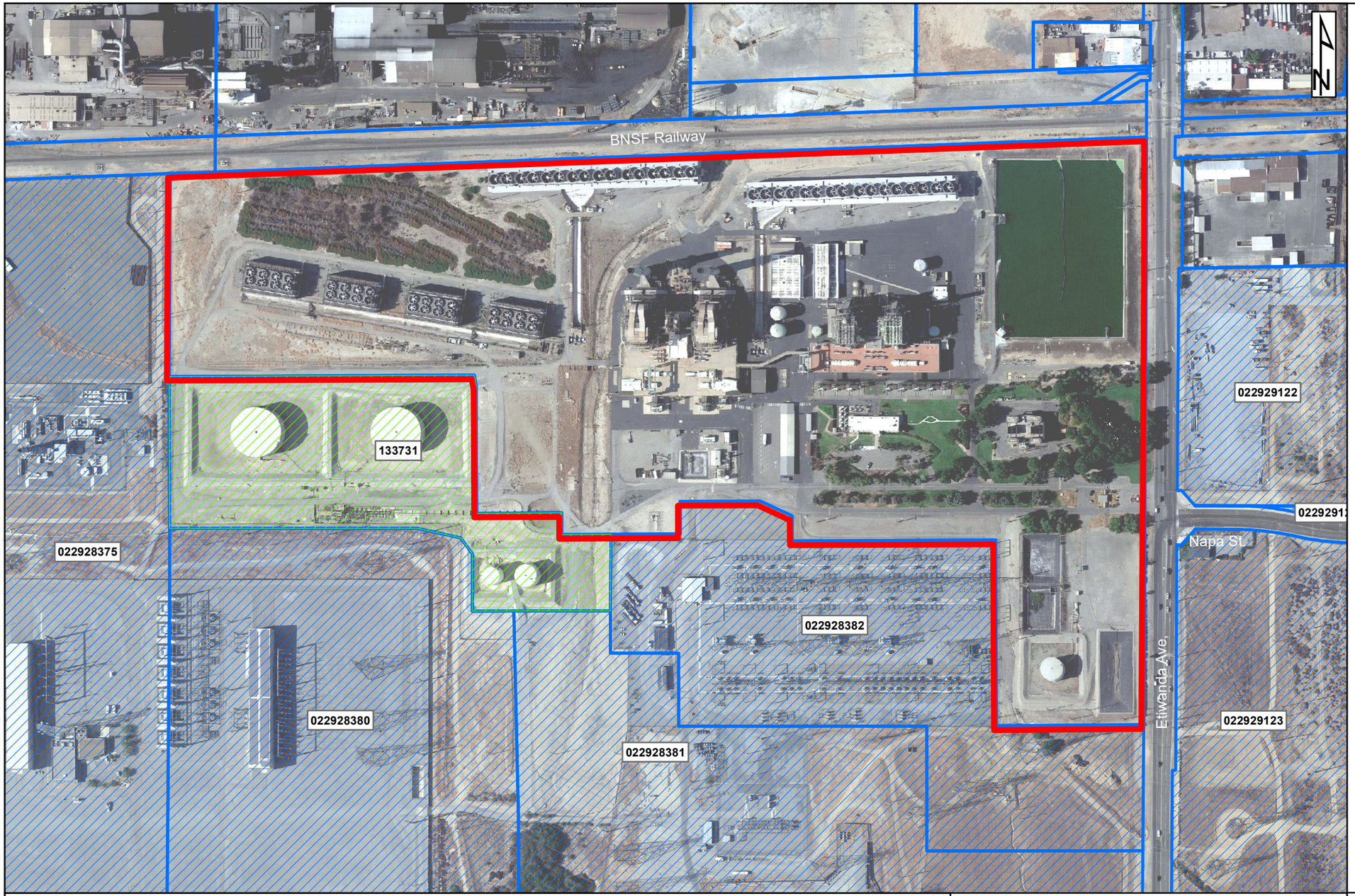
- CL - Low Plasticity Clay
- ML - Low Plasticity Silt
- SM - Silty Sand

- Base Map Sources:
  Northgate Environmental Management, Ediwanda Generating Station, Figure 11A, 2/14/2022

FIGURE 4B
Geologic Cross-Section B-B' With Carbon Tetrachloride Concentrations
Etiwanda Generating Station
8996 Etiwanda Ave, Rancho Cucamonga, California

northgate environmental management, inc.

2119.75



NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

- Approximate Site Boundary
- Inland Empire Utility Agency

Adjacent Properties
(Parcel Number Shown)

- Southern California Edison

Feet
0 150 300 600 900

1 inch = 300 feet
1:3,600

Figure 2

Site Map With Adjacent Properties

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2169.09

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 2_PropBND_0523.mxd



NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

- Approximate Site Boundary
- Former SCE Basin Groundwater Monitoring Well Locations

Feet
0 75 150 300 450
1 inch = 150 feet
1:1,800

Figure 3

Former SCE Groundwater Monitoring Well Locations (Abandoned)

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 3_MWLocs 0523.mxd



Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
1	Distillate Tank
2	Former Boiler Chemical Cleaning Basin (Closed)
3	South Retention Basin (Closed)
4	North Retention Basin (Closed)
5	Fueling Station
6	Unit 5 (Peaker)
7	Administration Building
8	Decommisioned RO Equip and Basin
9	Laydown Area
10	Units 1 and 2 Cooling Towers
11	Chadwick Channel
12	Unit 4 Cooling Towers
13	Generating Units 3 & 4
14	Haz Waste Accumulation Area
15	Generating Units 1 & 2
16	Warehouse
17	Maintenance Shop
18	Welding Shop
19	Unit 3 Cooling Towers
20	Capped Natural Gas Easment
21	Cooling Tower Makeup Water Pond
22	Construction and Operations Waste
23	Auxiliary Transformer
24	Sulfuric Acid Tank
25	Units 3/4 Transformer
26	Units 1/2 Transformer
27	Acid Caustic Tanks Area
28	Well Water Storage Tank
29	Distilled Water Tanks
30	Cooling Water Tank
31	Fire House (foam)
32	Fire Water Pumps
33	Sludge Drainage Area
34	Northern Fill
35	Sodium Hypochlorite Tank
36	Former Hazardous Waste Area
37	Septic Pits
38	Flumes

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

(23) Site Features (see table)

Approximate Site Boundary

Feet
0 125 250 500 750

1 inch = 250 feet
1:3,000

Figure 4

Site-Wide RFI Areas of Interest

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 4_AOI 0523_BU.mxd

Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
1	Distillate Tank
2	Former Boiler Chemical Cleaning Basin (Closed)
3	South Retention Basin (Closed)
4	North Retention Basin (Closed)
5	Fueling Station
6	Unit 5 (Peaker)
7	Administration Building
8	Decommisioned RO Equip and Basin
9	Laydown Area
10	Units 1 and 2 Cooling Towers
11	Chadwick Channel
12	Unit 4 Cooling Towers
13	Generating Units 3 & 4
14	Haz Waste Accumulation Area
15	Generating Units 1 & 2
16	Warehouse
17	Maintenance Shop
18	Welding Shop
19	Unit 3 Cooling Towers
20	Capped Natural Gas Easement
21	Cooling Tower Makeup Water Pond
22	Construction and Operations Waste
23	Auxiliary Transformer
24	Sulfuric Acid Tank
25	Units 3/4 Transformer
26	Units 1/2 Transformer
27	Acid Caustic Tanks Area
28	Well Water Storage Tank
29	Distilled Water Tanks
30	Cooling Water Tank
31	Fire House (foam)
32	Fire Water Pumps
33	Sludge Drainage Area
34	Northern Fill
35	Sodium Hypochlorite Tank
36	Former Hazardous Waste Area
37	Septic Pits
38	Flumes

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Inset A

0 15 30 Feet

Legend

- Site Features (see table)
- Approximate Site Boundary

SCE RFI 2021-2022
- Soil Sample
- Soil and Soil Vapor Sample
- Soil Vapor Sample
- Canceled Boring

Path Forward Nov 2020
- Soil Sample
- Soil and Soil Vapor Sample
- Refusal

ERM/Ardent October 2019
- Soil Sample
- Soil Vapor Sample
- Soil Sample Horizontal Composites

SCE Oct-Nov 2020
- Soil Sample

ERM Soil Cleanup Sample Locations
- Excavation Confirmation Soil Sample

0 100 200 Feet

1 inch = 100 feet
1:1,200

Figure 5

RFI and Pre-RFI Sample Location Map

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

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Document Path: M:\Arc\GIS\Packages\SCE Etiwanda\GIS\Map Files\RFI Work Plan\Figure 5_SampleLoc_0523.mxd



Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
1	Distillate Tank
2	Former Boiler Chemical Cleaning Basin (Closed)
3	South Retention Basin (Closed)
4	North Retention Basin (Closed)
5	Fueling Station
6	Unit 5 (Peaker)
7	Administration Building
8	Decommisioned RO Equip and Basin
9	Laydown Area
10	Units 1 and 2 Cooling Towers
11	Chadwick Channel
12	Unit 4 Cooling Towers
13	Generating Units 3 & 4
14	Haz Waste Accumulation Area
15	Generating Units 1 & 2
16	Warehouse
17	Maintenance Shop
18	Welding Shop
19	Unit 3 Cooling Towers
20	Capped Natural Gas Easment
21	Cooling Tower Makeup Water Pond
22	Construction and Operations Waste
23	Auxiliary Transformer
24	Sulfuric Acid Tank
25	Units 3/4 Transformer
26	Units 1/2 Transformer
27	Acid Caustic Tanks Area
28	Well Water Storage Tank
29	Distilled Water Tanks
30	Cooling Water Tank
31	Fire House (foam)
32	Fire Water Pumps
33	Sludge Drainage Area
34	Northern Fill
35	Sodium Hypochlorite Tank
36	Former Hazardous Waste Area
37	Septic Pits
38	Flumes

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

(23) Site Features (see table)

Approximate Site Boundary

Pre-RFI Site Characterization Activites

- Path Forward Nov 2020
- SCE Oct-Nov 2020
- ERM June-July 2020
- ERM/Ardent October 2019

Feet
0 125 250 500 750

1 inch = 250 feet
1:3,000

Figure 5A

Pre-RFI Subsurface Characterization Programs

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

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Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
10	Units 1 and 2 Cooling Towers
12	Unit 4 Cooling Towers
22	Construction and Operations Waste
23	Auxiliary Transformer
24	Sulfuric Acid Tank
29	Distilled Water Tanks
33	Sludge Drainage Area
34	Northern Fill
35	Sodium Hypochlorite Tank
36	Former Hazardous Waste Area
38	Flumes

Soil results were all less than the commercial screening levels

Laboratory soil reporting limits were all less than the commercial screening levels.

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

- 23 — Site Features (see table)
- Approximate Site Boundary

SCE Oct-Nov 2020
- Soil Sample

ERM/Ardent October 2019
- Soil Sample
- Soil Vapor Sample
- Soil Sample Horizontal Composites

0 25 50 100 150 200 Feet

1 inch = 100 feet
1:1,200

Figure 5B

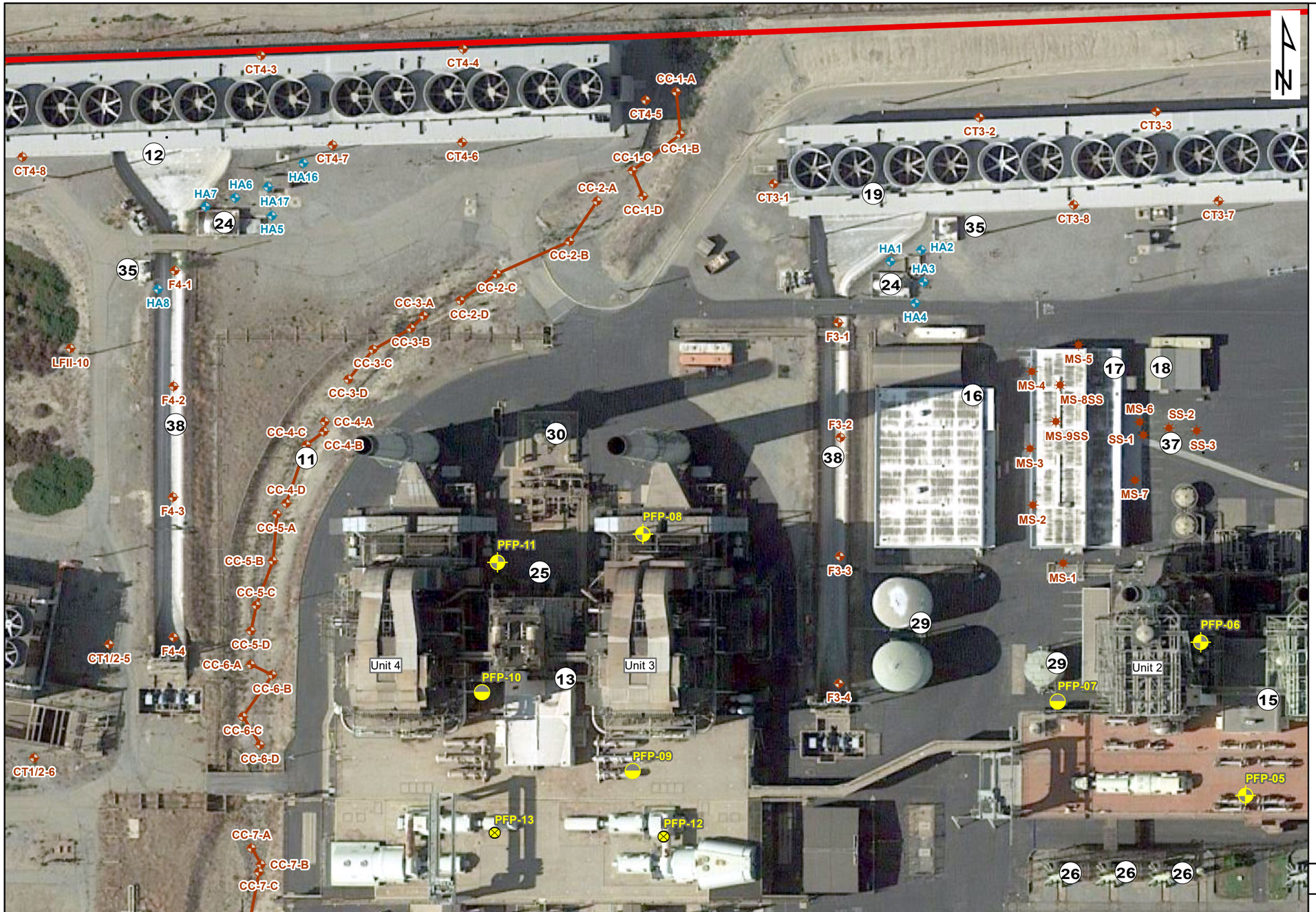
Northwest Property Pre-RFI Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

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5/22/2023	2119.75

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Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
11	Chadwick Channel
12	Unit 4 Cooling Towers
13	Generating Units 3 & 4
15	Generating Units 1 & 2
16	Warehouse
17	Maintenance Shop
18	Welding Shop
19	Unit 3 Cooling Towers
24	Sulfuric Acid Tank
25	Units 3/4 Transformer
26	Units 1/2 Transformer
29	Distilled Water Tanks
30	Cooling Water Tank
35	Sodium Hypochlorite Tank
36	Former Hazardous Waste Area
37	Septic Pits
38	Flumes

TPH-diesel soil results from composite CC-2 (CC-2-A, CC-2-B, CC-2-C, and CC-2-D) exceeded the EPA RSL but not the RWQCB SSL.

Arsenic results at CT3-2 and CT3-6 exceeded background concentrations.

All remaining soil results were less than the commercial screening levels.

Laboratory soil reporting limits were all less than the commercial screening levels, with the exception of NDMA for PFP-5 through PFP-11. The commercial screening level of NDMA is 0.034 mg/kg and the laboratory RLs were slightly higher and ranged between 0.081 and 0.094 mg/kg. However, NDMA is not a COPC for the Site.

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

(23) Site Features (see table)

Approximate Site Boundary

Path Forward Nov 2020
- Soil Sample
- Soil and Soil Gas Sample
- Refusal

SCE Oct-Nov 2020
- Soil Sample

ERM/Ardent October 2019
- Soil Sample
- Soil Vapor Sample

Soil Sample Horizontal Composites

0 50 100 150 200 Feet

1 inch = 80 feet
1:960

Figure 5C

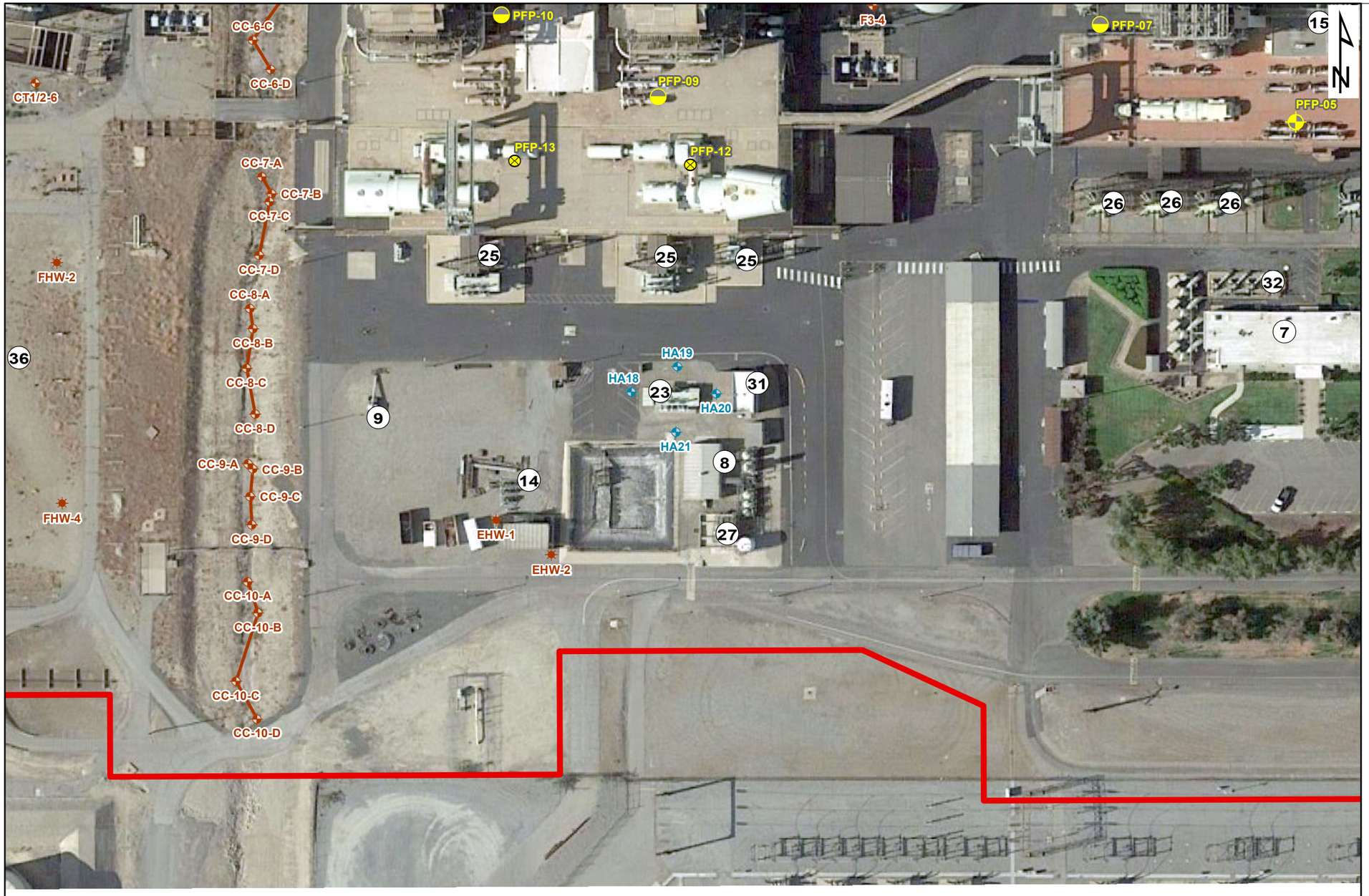
North Central Property Pre-RFI Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

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Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
7	Administration Building
8	Decommisioned RO Equip and Basin
9	Laydown Area
11	Chadwick Channel
14	Haz Waste Accumulation Area
23	Auxiliary Transformer
25	Units 3/4 Transformer
26	Units 1/2 Transformer
27	Acid Caustic Tanks Area
31	Fire House (foam)
32	Fire Water Pumps
36	Former Hazardous Waste Area

Soil and soil vapor results were less than commercial screening levels.

Laboratory soil reporting limits were all less than the commercial screening levels, with the exception of NDMA for PFP-5, PFP-7, PFP-9, and PFP-10. The commercial screening level of NDMA is 0.034 mg/kg and the laboratory RLs were slightly higher and ranged between 0.081 and 0.094 mg/kg. However, NDMA is not a COPC for the Site.

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

(23) Site Features (see table)

Approximate Site Boundary

Path Forward Nov 2020
- Soil Sample
- Soil and Soil Gas Sample
- Refusal

SCE Oct-Nov 2020
- Soil Sample

ERM/Ardent October 2019
- Soil Sample
- Soil Vapor Sample
- Soil Sample Horizontal Composite

0 50 100 150 200 Feet

1 inch = 80 feet
1:960

Figure 5D

South Central Property Pre-RFI Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

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Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
6	Unit 5 (Peaker)
7	Administration Building
15	Generating Units 1 & 2
16	Warehouse
17	Maintenance Shop
18	Welding Shop
19	Unit 3 Cooling Towers
20	Capped Natural Gas Easment
21	Cooling Tower Makeup Water Pond
24	Sulfuric Acid Tank
25	Units 3/4 Transformer
26	Units 1/2 Transformer
28	Well Water Storage Tank
29	Distilled Water Tanks
31	Fire House (foam)
32	Fire Water Pumps
35	Sodium Hypochlorite Tank
37	Septic Pits
38	Flumes

Arsenic results at CT3-2 and CT3-6 exceeded background concentrations.
All remaining soil results were less than the commercial screening levels

Laboratory soil reporting limits were all less than the commercial screening levels, with the exception of NDMA for PFP-3 through PFP-7.

The commercial screening level of NDMA is 0.034 mg/kg and the laboratory RLs were slightly higher and ranged between 0.081 and 0.094 mg/kg. However, NDMA is not a COPC for the Site.

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

LEGEND

(23) Site Features (see table)

Approximate Site Boundary

Path Forward Nov 2020
- Soil Sample
- Soil and Soil Vapor Sample
- Refusal

SCE Oct-Nov 2020
- Soil Sample

ERM/Ardent October 2019
- Soil Sample
- Soil Vapor Sample

0 50 100 150 200 Feet

1 inch = 100 feet
1:1,200

Figure 5E

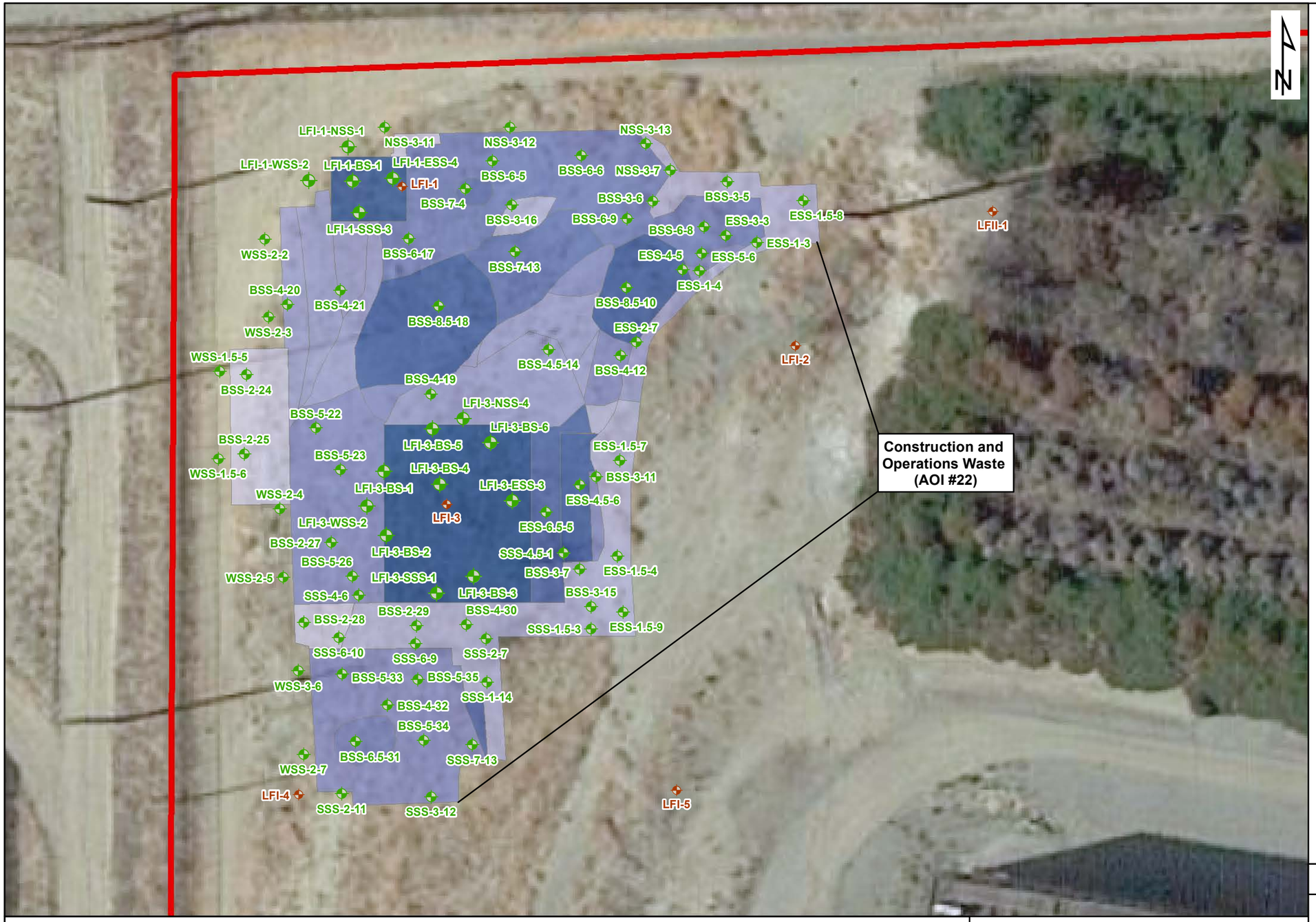
Northeast Property Pre-RFI Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

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Excavated Areas Approximate Depth

- 2 foot
- 3 foot
- 4 foot
- 5 foot
- 6 foot
- 7 foot
- 8 foot
- 8.5 foot
- LFI-1 & LF-3

NOTE 1 :Field Soil Sample Naming:
Bottom Sample - BS or BSS prefix
Sidewall Sample and Wall - ESS, NSS, SSS, WSS
The depth follows and an internal sequential sample number follows that.

NOTE 2:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Samples BSS-6-31, BSS-6-4, ESS-3-1, SSS-1-8, LFI-1-ESS-4, LFI-1-SSS-3, and LFI-3-WSS-2 exceeded soil screening levels for arsenic and/or lead and were removed.

The remaining soil results were less than the commercial screening levels.

Laboratory soil reporting limits were all less than the commercial screening levels.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

Approximate Site Boundary

ERM Soil Cleanup Sample Locations
Excavation Confirmation
Soil Sample

ERM/Ardent October 2019
Soil Sample - Test Pit

Feet
0 25 50 75
1 inch = 30 feet
1:360

Figure 5F

Construction and Operations Waste Cleanup Area Pre-RFI Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER	
5/22/2023	2119.75	northgate environmental management, inc.

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Areas of Interest (AOIs)

Numbers Correspond to Locations on Map.

Number	Name
1	Distillate Tank
5	Fueling Station
6	Unit 5 (Peaker)
14	Haz Waste Accumulation Area
16	Warehouse
17	Maintenance Shop
18	Welding Shop
21	Cooling Tower Makeup Water Pond
24	Sulfuric Acid Tank
25	Units 3/4 Transformer
26	Units 1/2 Transformer
27	Acid Caustic Tanks Area
35	Sodium Hypochlorite Tank
36	Former Hazardous Waste Area
37	Septic Pits

NOTE:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

23 Site Features (see table)

Approximate Site Boundary

0 125 250 500 750 Feet

1 inch = 250 feet
1:3,000

Figure 6

Areas of Interest Addressed in the RFI

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

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North Retention Basin - Closed (AOI #4)

F5-1

F5-2

Former Fueling Station (AOI #5)

South Retention Basin - Closed (AOI #3)

Former Distallate Tank (AOI #1)

DT-1

DT-4

DT-2

DT-3

Former Boiler Chemical Cleaning Basin - Closed (AOI #2)

Etiwanda Ave.

N

Legend

Approximate Site Boundary

SCE RFI 2021-2022

Soil and Soil Vapor Sample

NOTE:
Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Feet
0 50 100 150
1 inch = 60 feet
1:720

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Figure 7

Distillate Tank and Fueling Station Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 7_DistillateTank_0523.mxd



Legend

SCE RFI 2021-2022

- Soil Sample
- Soil and Soil Vapor Sample
- Soil Vapor Sample

Path Forward Nov 2020

- Soil and Soil Vapor Sample

NOTE:
Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Feet
0 20 40 60
1 inch = 30 feet
1:360

DATE	PROJECT NUMBER
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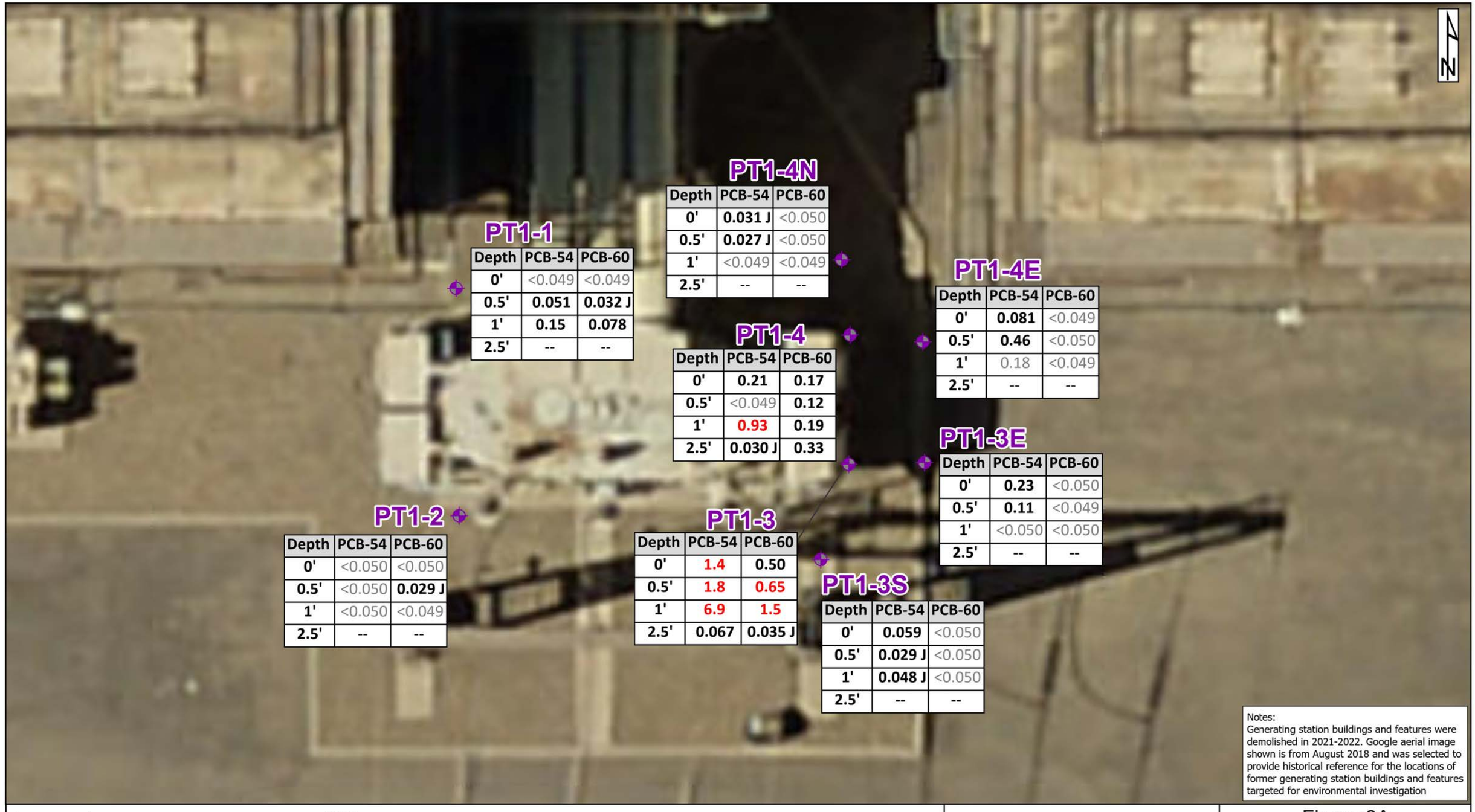
northgate environmental management, inc.

Figure 8

Peaker Unit 5 Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 8 Peaker5_0523.mxd



Legend

SCE RFI 2021-2022

Soil Boring

Notes:

Polychlorinated biphenyl Aroclor-1254 (PCB-54) and Aroclor-1260 (PCB-60) concentrations represent maximum concentrations (where duplicate samples were collected) and are reported in milligrams per kilogram (mg/kg) at various sampling depths (feet below ground surface). Concentrations of PCB-54 and PCB-60 exceeding the Department of Toxic Substances Control-modified screening level (DTSC-SL) of 0.59 and 0.6 mg/kg, respectively, for commercial/industrial land use are identified in **Red** font.

<0.050: Indicates the target analyte was not detected above the laboratory reporting limit in mg/kg

--: Sample was not analyzed for target analyte

Results flagged with "J" represent estimated concentrations

Feet

0 2.5 5

1 inch = 5 feet

1:60

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Figure 8A

PCB Concentrations in Soil Samples at Peaker Unit 5 Transformer

Former SCE Etiwanda Generating Station

Rancho Cucamonga, California

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\Projects\RFIWP\Figure8a.aprx



Notes:
Tetrachloroethene (PCE) concentrations are reported in micrograms per cubic meter (ug/m^3) at various sampling depths (feet below ground surface). Posted PCE concentrations represent maximum concentrations where multiple or duplicate samples were collected.

The DTSC-modified screening level (DTSC-SL) for commercial/industrial land assuming default soil vapor attenuation factor 0.001 is 2,000 ug/m^3.

The DTSC-SL for commercial/industrial land assuming the most conservative default soil vapor attenuation factor 0.03 is 67 ug/m^3.

ND: PCE was not detected above the laboratory reporting limit of 5 ug/m^3.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

67 PCE Isocontour at 5 Feet Below Ground Surface

SCE RFI 2021-2022
- Soil Sample
- Soil and Soil Vapor Sample
- Soil Vapor Sample

Path Forward Nov 2020
- Soil and Soil Vapor Sample

0 20 40 60 Feet

1 inch = 30 feet
1:360

DATE	PROJECT NUMBER
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Figure 8B

PCE Concentrations in Soil Vapor at Peaker Unit 5

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 8B_Peaker5_0523.mxd



Notes:

Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

Approximate Site Boundary

SCE RFI 2021-2022

Soil Sample

ERM/Ardent October 2019

Soil Sample

Soil Sample Horizontal Composites

Feet
0 50 100
1 inch = 75 feet
1:900

Figure 9

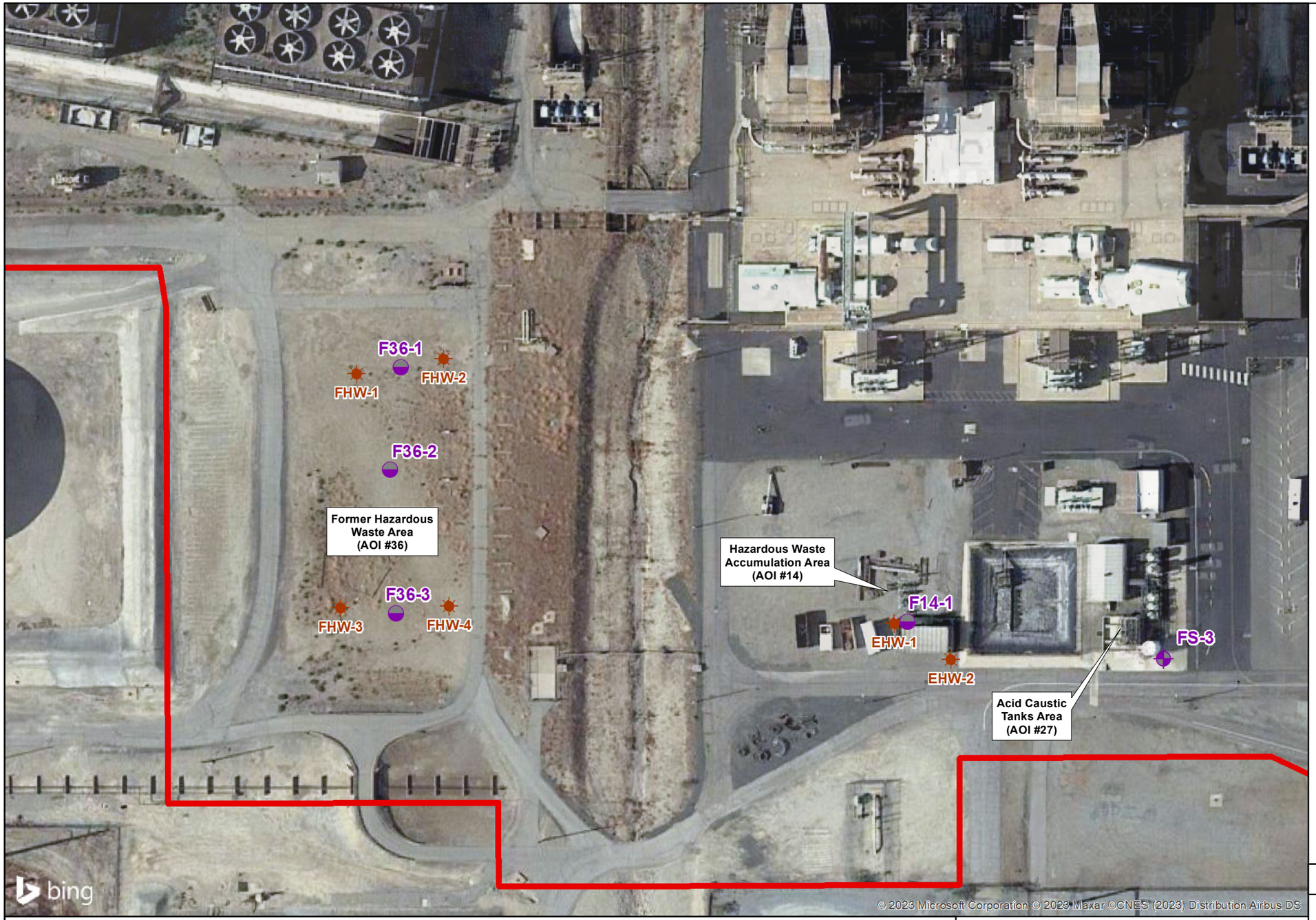
Chadwick Channel Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

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Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 9 ChadwichChannel_0523.mxd



Legend

Approximate Site Boundary

SCE RFI 2021-2022

- Soil Sample
- Soil and Soil Vapor Sample

ERM/Ardent October 2019

- Soil Vapor Sample

Feet
0 25 50 100 150
1 inch = 75 feet
1:900

Notes:
Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Figure 10

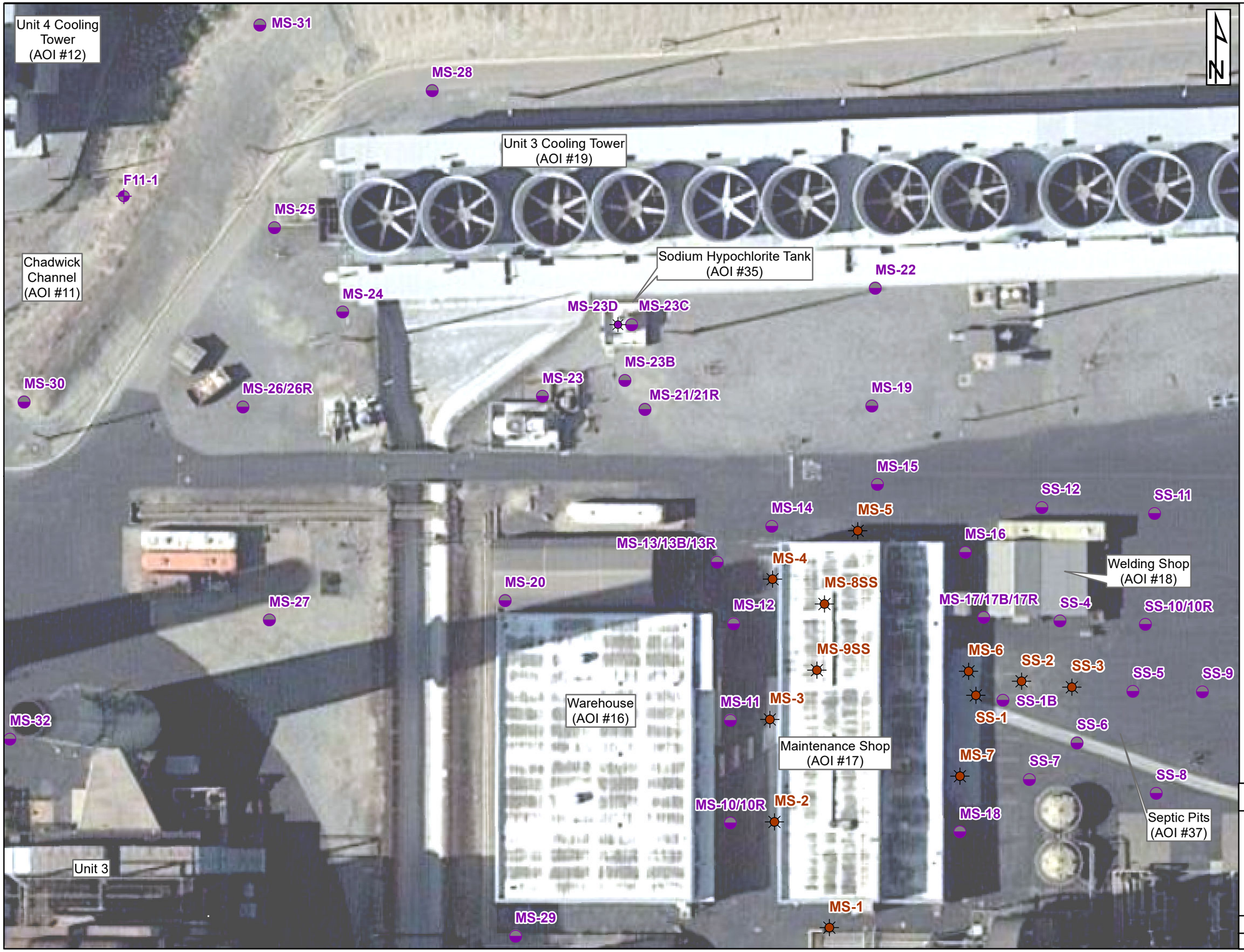
Sampling Locations at Hazardous Waste Storage Areas

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

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Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 10_RecSubCharacProg_0523.mxd



Legend

SCE RFI 2021-2022

- Soil Sample
- Soil Vapor Sample
- Soil and Soil Vapor Sample

ERM/Ardent October 2019

- Soil Vapor Sample

Notes:
Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Feet
0 40 80
1 inch = 40 feet
1:480

Figure 11

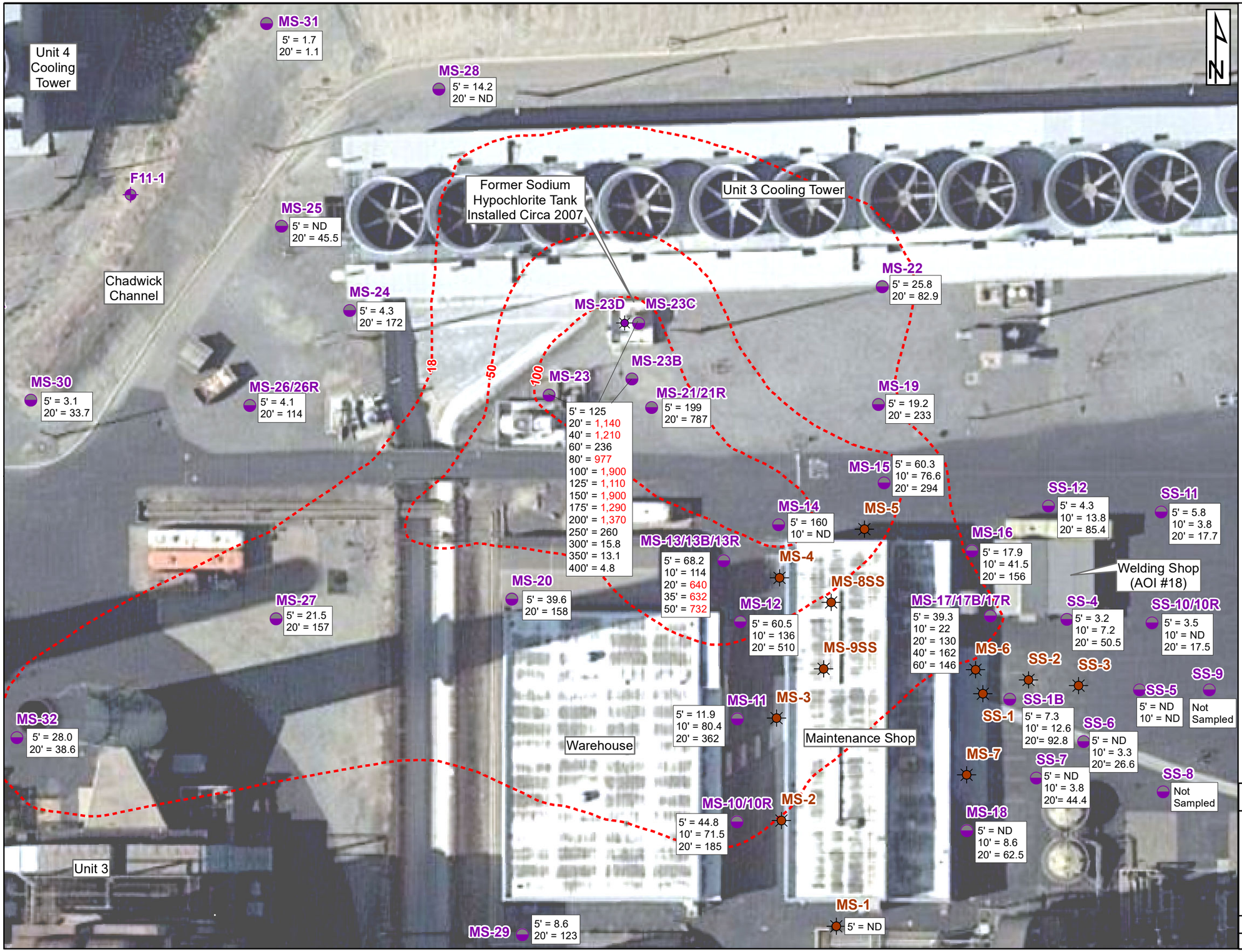
Sampling Locations at Maintenance Shop Area

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

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Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 11_SamplingLocationsatMain_0523.mxd



Legend

SCE RFI 2021-2022

- Soil Sample
- Soil Vapor Sample
- Soil and Soil Vapor Sample

ERM/Ardent October 2019

- Soil Vapor Sample

18 — Chloroform Isocontour at 5 Feet Below Ground Surface

Notes:

Chloroform concentrations are reported in micrograms per cubic meter (ug/m^3) at various sampling depths (feet below ground surface). Posted chloroform concentrations represent maximum concentrations where multiple or duplicate samples were collected.

The EPA regional screening level (RSL) for commercial/industrial land, assuming default soil vapor attenuation factor 0.001 is 530 ug/m^3. Chloroform concentrations above 530 ug/m^3 are identified in Red font.

The EPA RSL for commercial/industrial land, assuming the most conservative default soil vapor attenuation factor 0.03, is 18 ug/m^3.

ND: Chloroform was not detected above the laboratory reporting limit of 2 ug/m^3.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

0 40 80 Feet

1 inch = 40 feet
1:480

Figure 11A

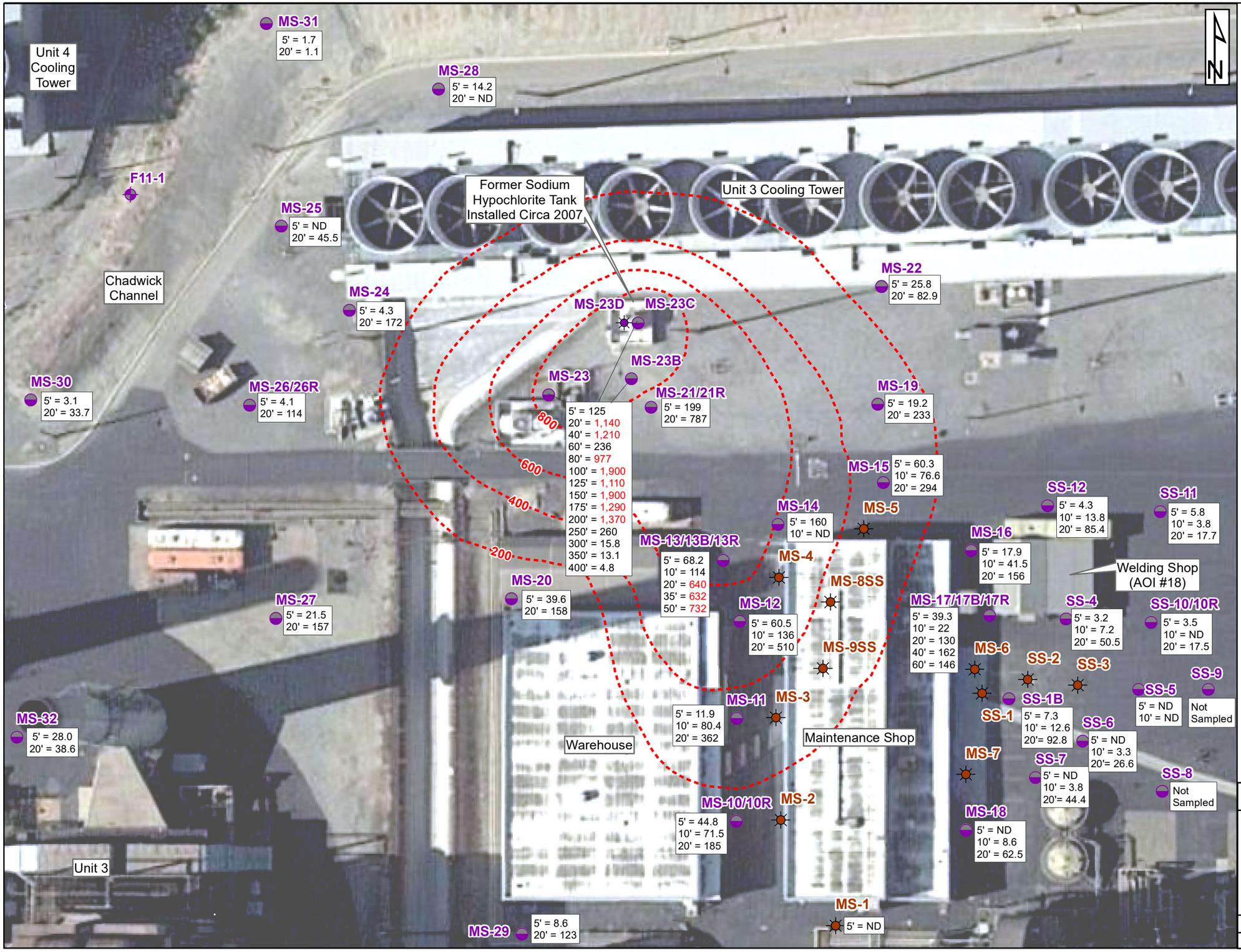
Chloroform in Soil Vapor at Maintenance Shop Area

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

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Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 11A_SamLocMainChloroform_0523.mxd



Legend

SCE RFI 2021-2022

- Soil Sample
- Soil Vapor Sample
- Soil and Soil Vapor Sample

ERM/Ardent October 2019

- Soil Vapor Sample

800 — Chloroform Isocontour at 20 Feet Below Ground Surface

Notes:

Chloroform concentrations are reported in micrograms per cubic meter (ug/m^3) at various sampling depths (feet below ground surface). Posted chloroform concentrations represent maximum concentrations where multiple or duplicate samples were collected.

The EPA regional screening level (RSL) for commercial/industrial land, assuming default soil vapor attenuation factor 0.001 is 530 ug/m^3. Chloroform concentrations above 530 ug/m^3 are identified in Red font.

The EPA RSL for commercial/industrial land, assuming the most conservative default soil vapor attenuation factor 0.03, is 18 ug/m^3.

ND: Chloroform was not detected above the laboratory reporting limit of 2 ug/m^3.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

0 — 40 — 80 Feet

1 inch = 40 feet
1:480

Figure 11B

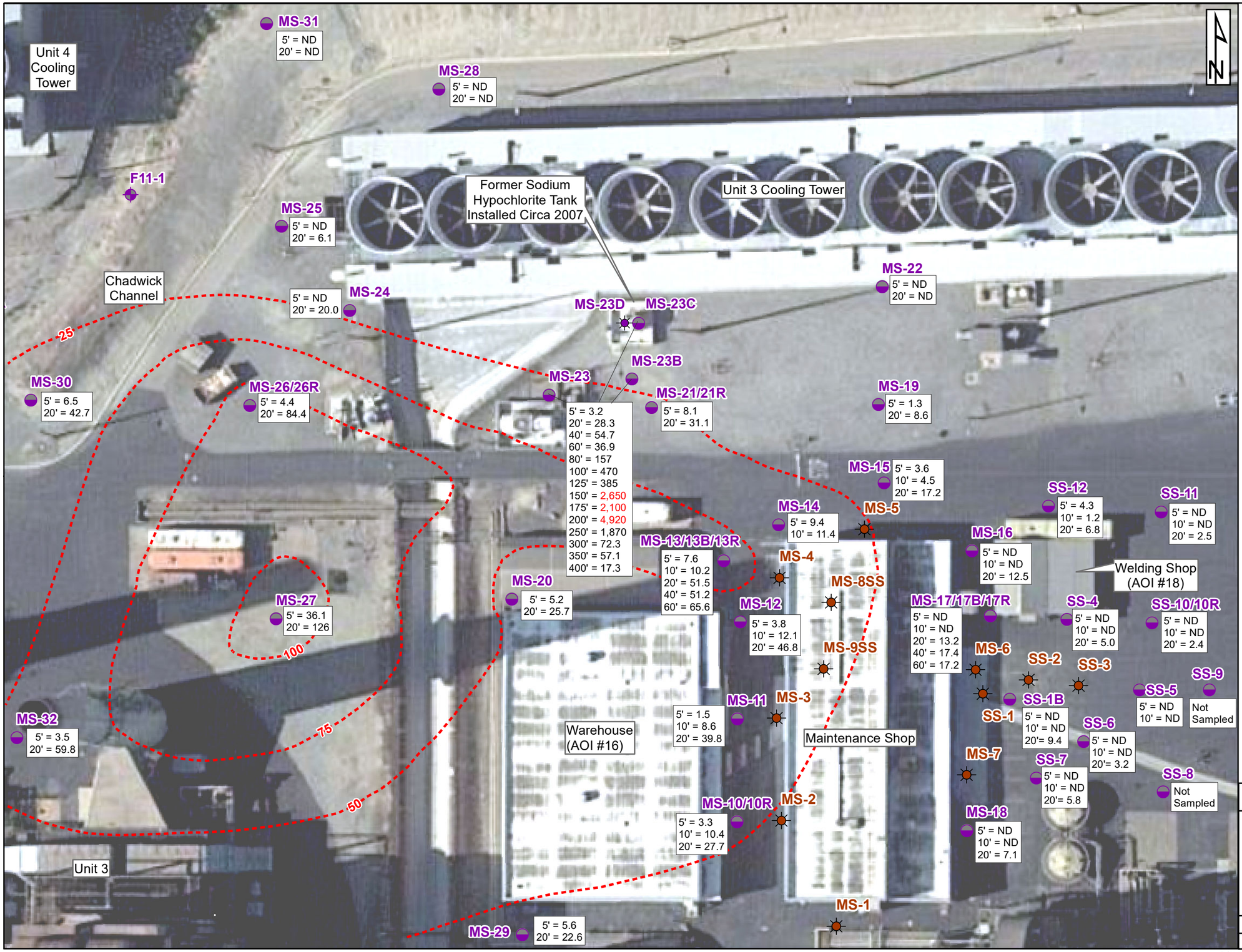
Chloroform in Soil Vapor at Maintenance Shop Area

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 11B_SamLocMainChloroform20_0523.mxd



Legend

SCE RFI 2021-2022

- Soil Sample
- Soil Vapor Sample
- Soil and Soil Vapor Sample

ERM/Ardent October 2019

- Soil Vapor Sample
- 100 — Carbon Tetrachloride Isocontour at 20 Feet Below Ground Surface

Notes:

Carbon tetrachloride concentrations are reported in micrograms per cubic meter (ug/m^3) at various sampling depths (feet below ground surface). Posted carbon tetrachloride concentrations represent maximum concentrations where multiple or duplicate samples were collected.

The EPA regional screening level (RSL) for commercial/industrial land, assuming default soil vapor attenuation factor 0.001, is 2,000 ug/m^3. Carbon tetrachloride concentrations above 2,000 ug/m^3 are identified in Red font.

The EPA RSL for commercial/industrial land, assuming the most conservative default soil vapor attenuation factor 0.03, is 67 ug/m^3.

ND: Carbon tetrachloride was not detected above the laboratory reporting limit of 1 ug/m^3.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

0 40 80 Feet

1 inch = 40 feet
1:480

Figure 11C

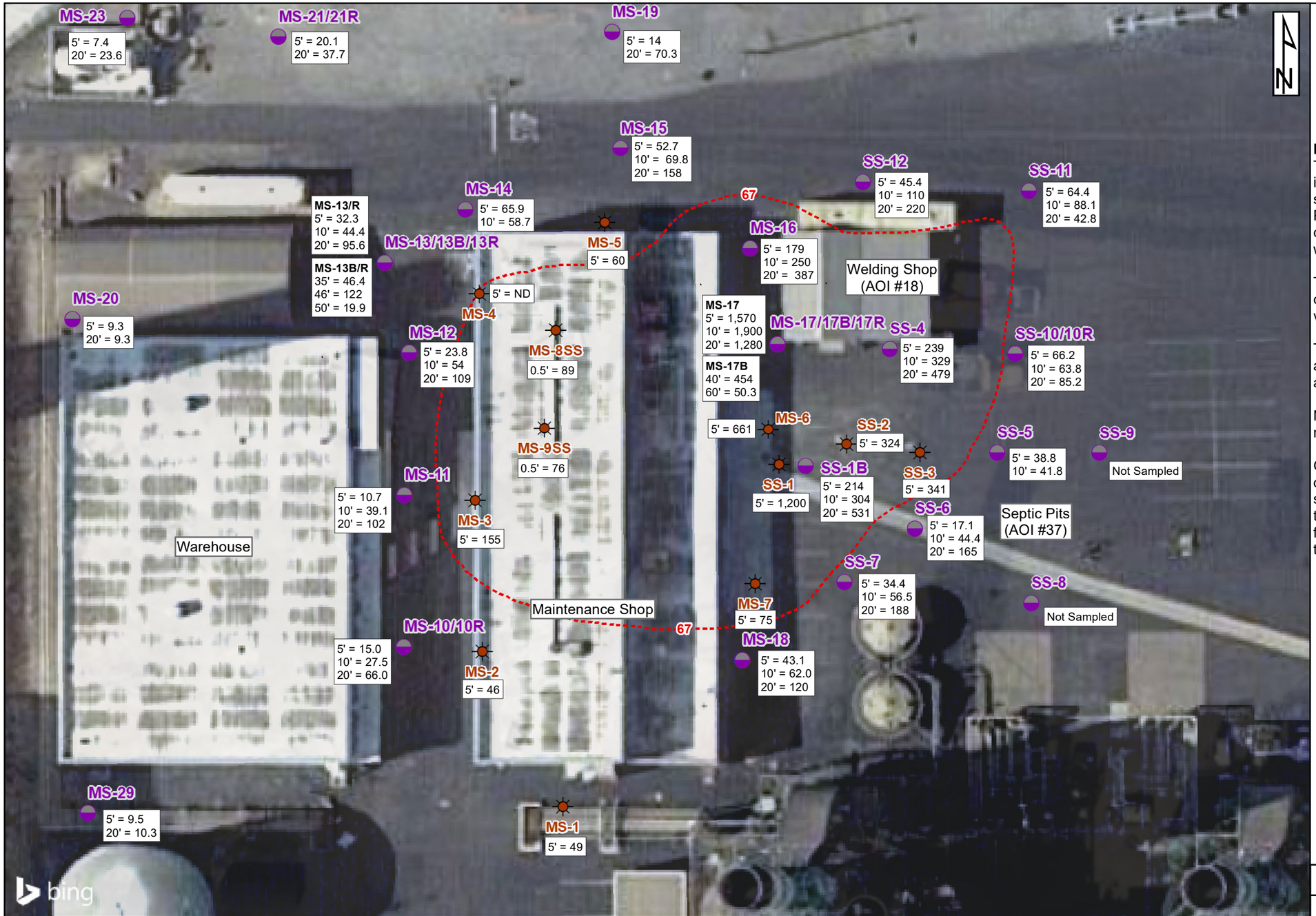
Carbon Tetrachloride in Soil Vapor at Maintenance Shop Area

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 11C_SamLocMainCT_0523.mxd



Note:
Tetrachloroethene (PCE) concentrations are reported in micrograms per cubic meter (ug/m^3) at various sampling depths (feet below ground surface). Posted PCE concentrations represent maximum concentrations where multiple or duplicate samples were collected.

The DTSC-modified screening level (DTSC-SL) for commercial/industrial land assuming default soil vapor attenuation factor 0.001 is 2,000 ug/m^3.

The DTSC-SL for commercial/industrial land assuming the most conservative default soil vapor attenuation factor 0.03 is 67 ug/m^3.

ND: PCE was not detected above the laboratory reporting limit of 5 ug/m^3.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

SCE RFI 2021-2022
- Soil and Soil Vapor Sample

ERM/Ardent October 2019
- Soil Vapor Sample

- 67 - PCE Isocontour at 5 Feet Below Ground Surface

Feet
0 30 60 90
1 inch = 30 feet
1:360

Figure 11D

PCE Concentrations in Soil Vapor at Maintance Shop Area

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 11D_Warehouseand Maint_PCE_0523.mxd



Note:
1,1-Dichloroethane (1,1-DCA) concentrations are reported in micrograms per cubic meter (ug/m^3) at various sampling depths (feet below ground surface). Posted 1,1-DCA concentrations represent maximum concentrations where multiple or duplicate samples were collected.

The EPA regional screening level (RSL) for commercial/industrial land, assuming default soil vapor attenuation factor 0.001, is 7,700 ug/m^3.

The EPA RSL for commercial/industrial land, assuming the most conservative default soil vapor attenuation factor 0.03, is 257 ug/m^3.

ND: 1,1-DCA was not detected above the laboratory reporting limit (generally between 2 ug/m^3 and 8 ug/m^3.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

SCE RFI 2021-2022
- Soil and Soil Vapor Sample

ERM/Ardent October 2019
- Soil Vapor Sample

-257- 1,1-DCA Isocontour at 5 Feet Below Ground Surface

Feet
0 30 60 90
1 inch = 30 feet
1:360

Figure 11E

1,1-DCA Concentrations in Soil Vapor at Maintenance Shop Area

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 11E_Warehouseand Maint_11DCA_0523.mxd



Legend

Approximate Site Boundary

Transformer

SCE RFI 2021-2022

Soil Sample

Canceled Boring

Feet

0 25 50 100 150

1 inch = 75 feet

1:900

Notes:

Property/Parcel boundaries from County of San Bernardino Geographic Information Services.

Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

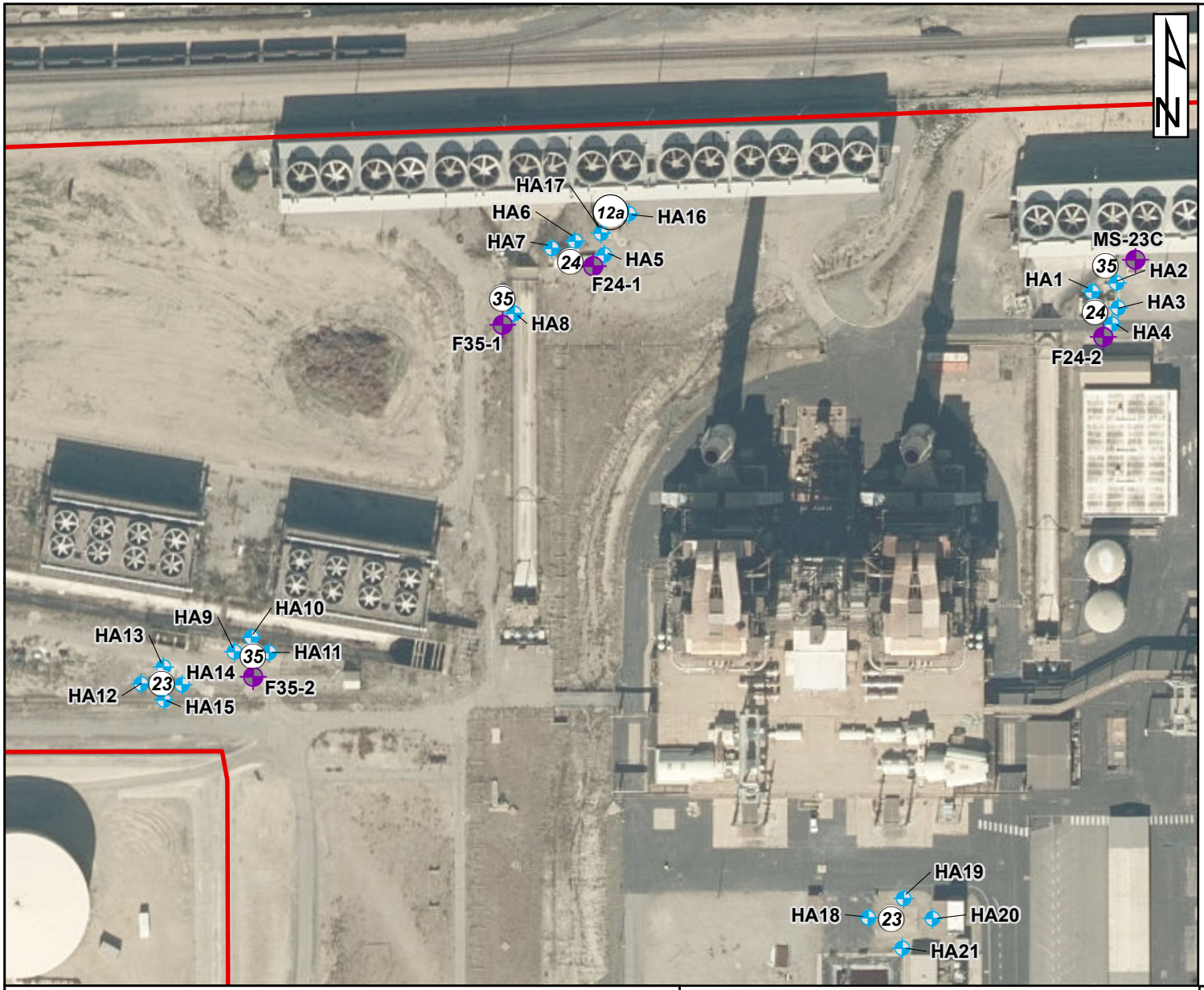
Figure 12

Transformers, Hypochlorite Tank, and Cooling Tower Water Pond Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER	
5/22/2023	2119.75	northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 12_CoolingTower_0523.mxd



Site Features

Numbers Correspond to Locations on Map.

Number	Name
12a	Cooling Tower Transformer and Switch Panel
23	Auxiliary Transformer
24	Sulfuric Acid Tank
35	Sodium Hypochlorite Tank

Notes:
Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

Legend

- (23) Area of Interest ID (see table)
- Approximate Site Boundary

SCE RFI 2021-2022

- Soil Borings

SCE Oct-Nov 2020

- Soil Sample

0 50 100 200 300 400 Feet

1 inch = 150 feet

1:1,800

Figure 13

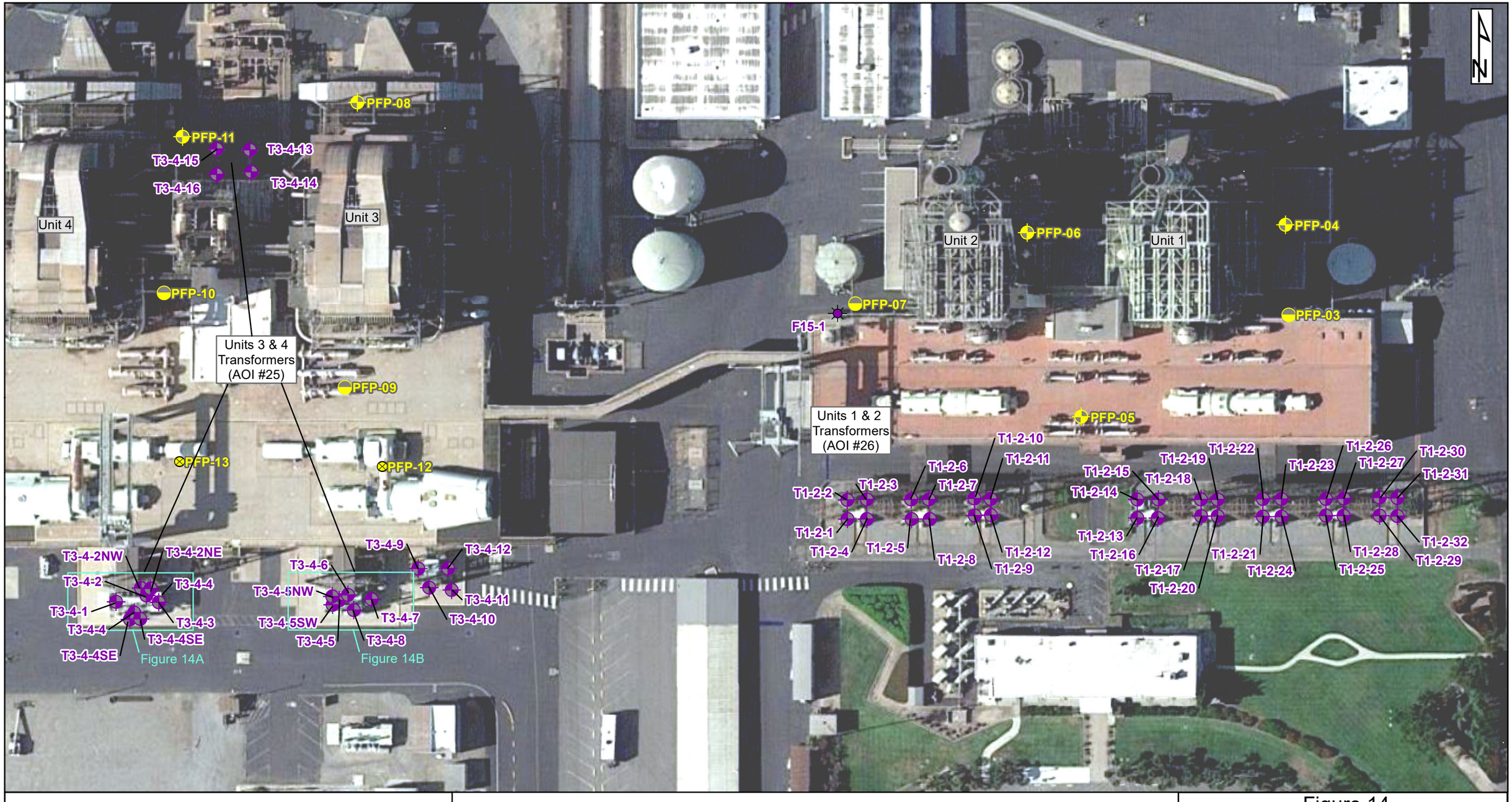
Transformer and Tank Sample Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 13_Etiwanda_0523.mxd



Legend

SCE RFI 2021-2022

- Soil Sample
- Soil Vapor Sample

Path Forward Nov 2020

- Refusal
- Soil
- Soil, Soil Vapor

Notes:
Generating station buildings and features were demolished in 2021-2022. Google aerial image shown is from August 2018 and was selected to provide historical reference for the locations of former generating station buildings and features targeted for environmental investigation.

0 50 100 150 Feet

1 inch = 60 feet
1:720

Figure 14

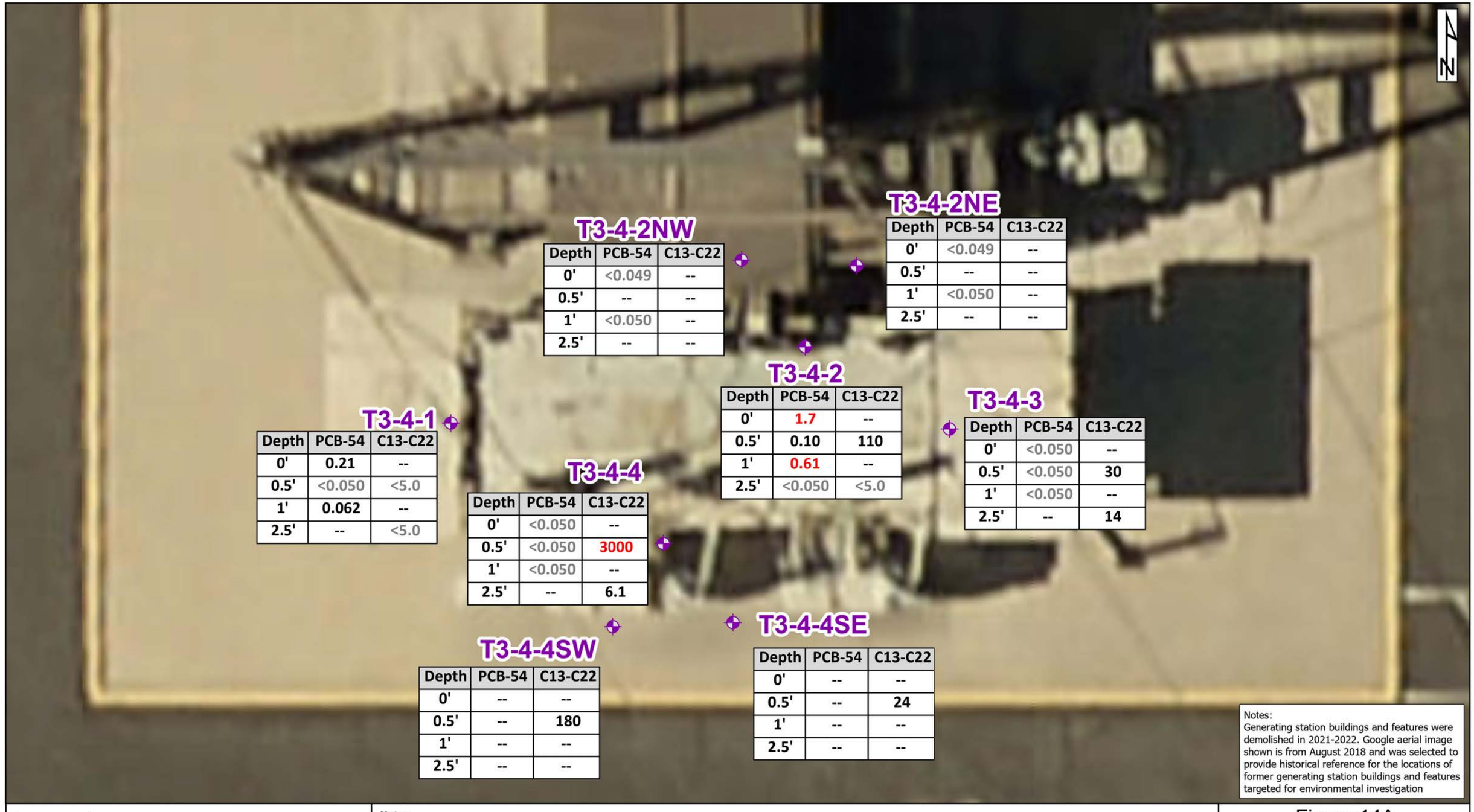
Main Transformers and Units 1-4 Sampling Locations

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\GIS\Map Files\RFI WorkPlan\Figure 14 TransformerUnit1-4_0522.mxd



Legend

SCE RFI 2021-2022

Soil Sample

Notes:

Polychlorinated biphenyl Aroclor-1254 (PCB-54) and Total Petroleum Hydrocarbon (TPH) diesel range (C13-C22) concentrations are reported in milligrams per kilogram (mg/kg) at various sampling depths (feet below ground surface). Concentrations of Aroclor-1254 exceeding the Department of Toxic Substances Control-modified screening level (DTSC-SL) of 0.59 mg/kg and TPH C13-C22 concentrations exceeding the San Francisco Bay Regional Water Quality Control Board Environmental Screening Level (ESL) of 1,200 mg/kg for commercial/industrial land use are identified with Red font.

<0.050: Indicates the target analyte was not detected above the laboratory reporting limit in mg/kg

--: Sample was not analyzed for target analyte"

Feet

0 2.5 5

1 inch = 5 feet

1:60

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Figure 14A

PCB and TPH Concentrations in Soil Samples at Unit 3 & 4 Transformers

Former SCE Etiwanda Generating Station

Rancho Cucamonga, California

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\Projects\RFIWP\Figure14a.aprx



Legend

SCE RFI 2021-2022

Soil Sample

Notes:

Total petroleum hydrocarbon (TPH) diesel range (C13-C22) concentrations are reported in milligrams per kilogram (mg/kg) at various sampling depths (feet below ground surface).
Concentrations of TPH C13-C22 exceeding the San Francisco Bay Regional Water Quality Control Board Environmental Screening Level (ESL) of 1,200 mg/kg for commercial/industrial land use are identified with Red font.
<5.0: Indicates the target analyte was not detected above the laboratory reporting limit in mg/kg
--: Sample was not analyzed for target analyte
J: Results flagged with "J" represent estimated concentrations

0 2.5 5 Feet

1 inch = 5 feet
1:60

DATE	PROJECT NUMBER
5/22/2023	2119.75

northgate environmental management, inc.

Figure 14B

TPH Concentrations in Soil Samples at Unit 3 & 4 Transformers

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

Document Path: M:\ArcGIS\Packages\SCE Etiwanda\Projects\RFIWP\Figure14b_v3.aprx

Notes:
Thallium concentrations are reported in milligrams per kilogram (mg/kg) from sampled depths in feet below ground surface except for Ardent samples F3-1 through F3-4 which are displayed in feet "below flume bottom" (equivalent to approximately 8 feet below surrounding grade) and were collected between concrete expansion joints (see photo inset below). Thallium concentrations above the commercial/industrial regional screening level (RSL) of 12 mg/kg are shown in red font. Results with "ND" indicate that thallium was not detected above the posted reporting limit.

CT4-5
0.5' = ND<1.0

CC-1-A
CC-1 (Comp.)
0.5' = ND<1.0

CC-1-B

CC-1-C

CC-1-D

CC-2-A

CT3-2
0.5' = ND<1.0

Unit 3 Cooling Tower
(AOI #19)

CT3-1
0.5' = ND<1.0

MS-23C
0.5' = ND<0.503
2.5' = ND<0.495

CT3-8
0.5' = ND<1.0

Sulfuric Acid Tank
(AOI #24)

Sodium Hypochlorite Tank
(AOI #35)

F3-1
0.5' = 14.9
1.5' = 2.43

0.5' = ND<1.03
2.5' = ND<0.957
5.0' = ND<1.00

MS-14

Typical Concrete Flume Photo (2020)

Concrete Expansion Joints

MS-12
0.5' = ND<1.03
2.5' = ND<1.01
5.0' = ND<0.962

F3-2
0.5' = 3.52

Warehouse
(AOI #16)

Maintenance Shop
(AOI #17)

Flume 3
(AOI #38)

MS-10/10R
0.5' = ND<0.985
2.5' = ND<1.05
5.0' = ND<0.952

PFP-08
1.5' = ND<0.17
4.0' = ND<0.17

F3-3
0.5' = ND<10

Distilled Water Tanks
(AOI #29)

Unit 3

F3-4
0.5' = 8.24

PFP-07
1.5' = ND<0.17
4.0' = ND<0.16

PFP-09
1.5' = ND<0.18
4.0' = 0.18 J

Feet
0 20 40
1 inch = 40 feet
1:480

Legend

Approximate Site Boundary

SCE RFI 2021-2022
Soil and Soil Vapor Sample

Path Forward Nov 2020
Soil Sample
Soil and Soil Vapor Sample

ERM/Ardent October 2019
Soil Sample
Soil Sample Horizontal Composites

Figure 15

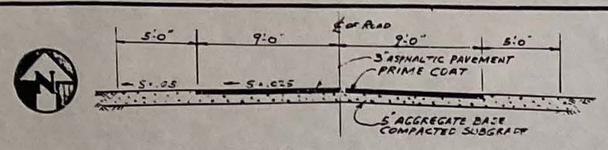
Thallium Concentrations at Flume 3

Former SCE Etiwanda Generating Station
Rancho Cucamonga, California

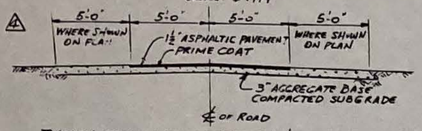
DATE	PROJECT NUMBER
10/16/2023	2119.75

northgate environmental management, inc.

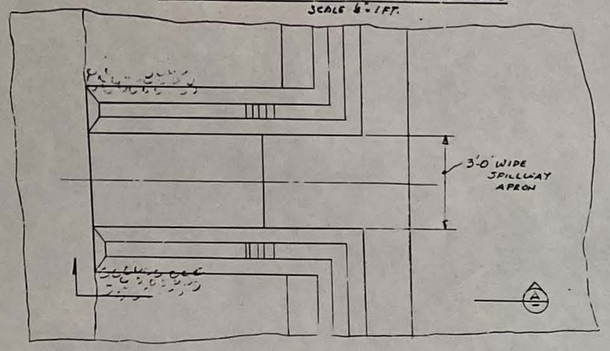
Document Path: M:\ArcGIS\Packages\Kimco\Map Files\Figure 15_ThalliumCnv2.mxd



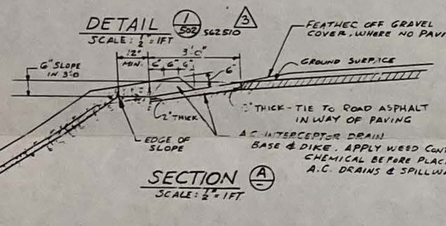
TYPICAL CROWN PAVEMENT FOR 18' WIDE ROAD
SCALE: 6"=1FT



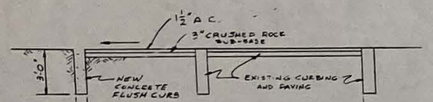
TYPICAL CROWN PAVEMENT FOR 10' WIDE ROAD
SCALE 6"=1FT.



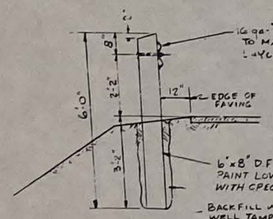
DETAIL (1/562510) (3)
SCALE: ½"=1FT



SECTION (A)
SCALE: ½"=1FT

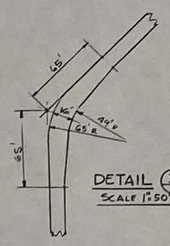


SECTION (G/562511) (2)
SCALE: 4"=1FT

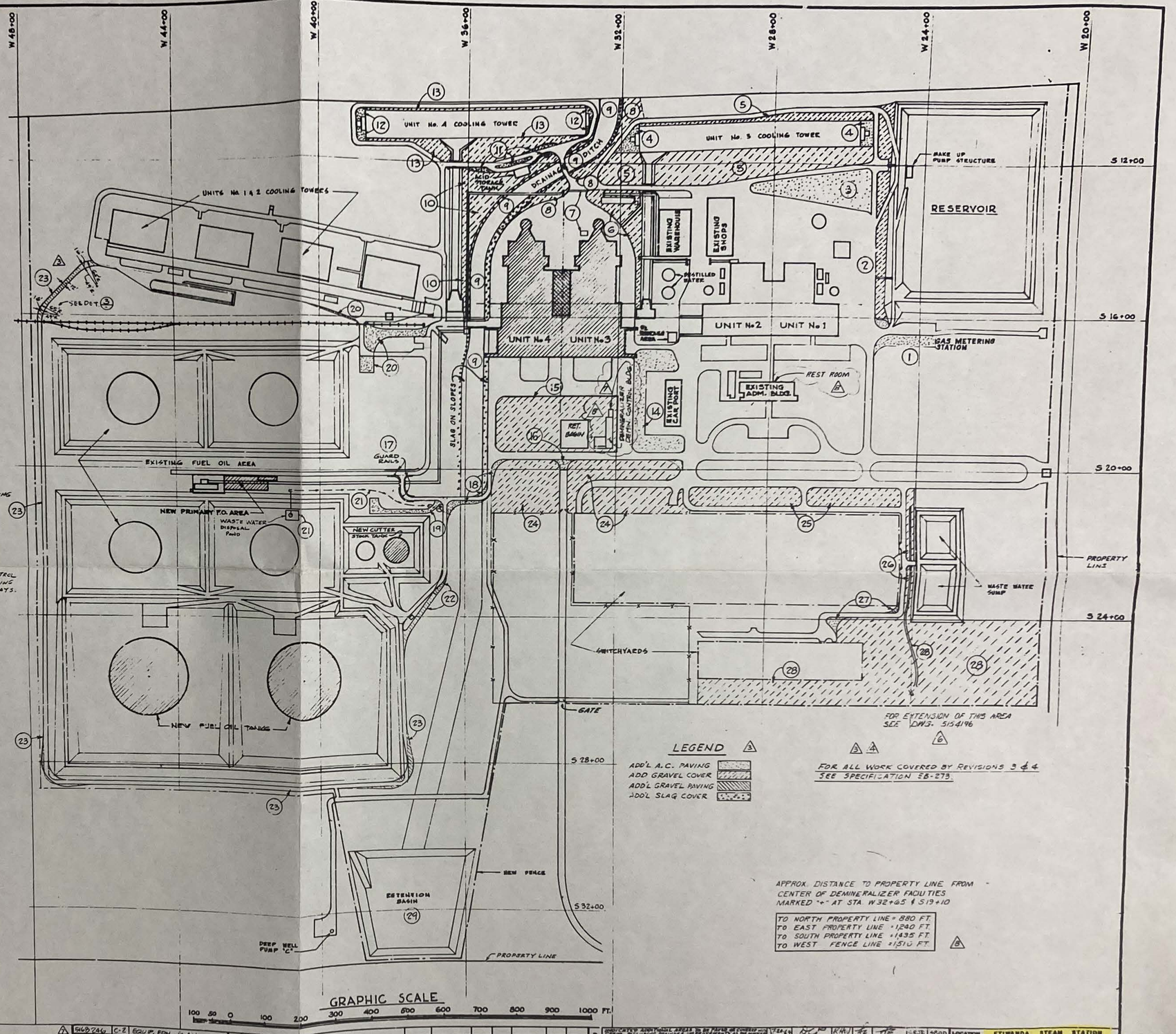


16 ga. "ECONO BEAM" GUARDRAIL - GALV'D TO MATCH BRIDGE RAIL - FOR LAYOUT SEE DWG. 562511

DETAIL (2/562511) (5)
SCALE: ½"=1FT



DETAIL (3)
SCALE 1"=50'



LEGEND (3)

- ADD'L A.C. PAVING
- ADD GRAVEL COVER
- ADD'L GRAVEL PAVING
- ADD'L SLAG COVER

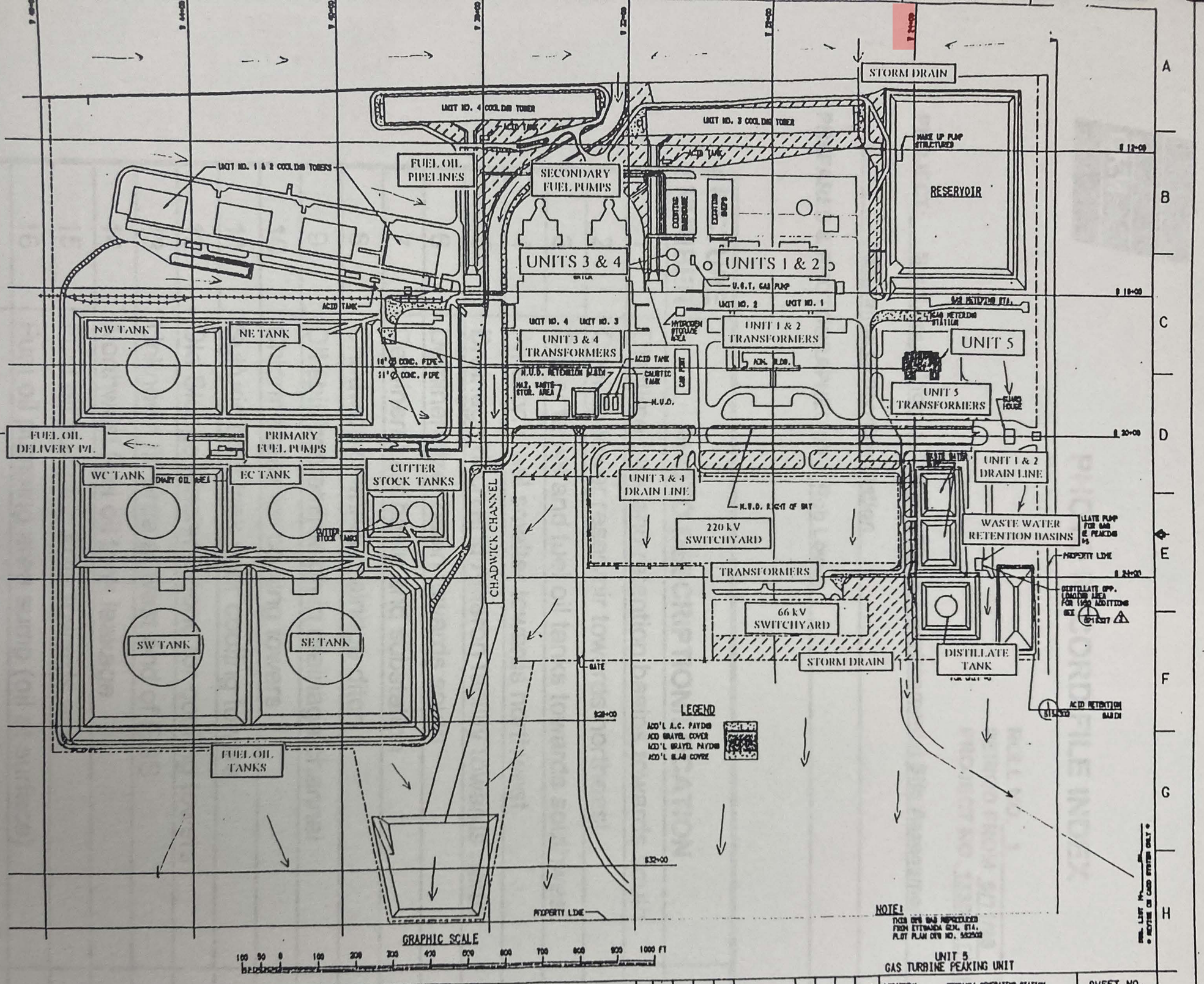
(3) (4) FOR ALL WORK COVERED BY REVISIONS 3 & 4 SEE SPECIFICATION SS-273. (6)

APPROX. DISTANCE TO PROPERTY LINE FROM CENTER OF DEMINERALIZER FACILITIES MARKED "+" AT STA. W 32+65 ℄ S 19+10

TO NORTH PROPERTY LINE	±880 FT.
TO EAST PROPERTY LINE	±1240 FT.
TO SOUTH PROPERTY LINE	±1435 FT.
TO WEST FENCE LINE	±1510 FT. (8)

GRAPHIC SCALE
100 50 0 100 200 300 400 500 600 700 800 900 1000 FT.

| | | |


STORM DRAIN
UNIT NO. 4 COOLING TOWER
UNIT NO. 3 COOLING TOWER
UNIT NO. 1 & 2 COOLING TOWERS
FUEL OIL PIPELINES
SECONDARY FUEL PUMPS
MAKE UP PUMP STRUCTURES
RESERVOIR
UNITS 3 & 4
UNITS 1 & 2
U.G.T. GAS PUMP
UNIT NO. 2
UNIT NO. 1
UNIT NO. 4
UNIT NO. 3
UNIT 3 & 4 TRANSFORMERS
UNIT 1 & 2 TRANSFORMERS
UNIT 5
UNIT 5 TRANSFORMERS
ACID TANK
CAUSTIC TANK
H.U.D.
NW TANK
NE TANK
FUEL OIL DELIVERY P/L
PRIMARY FUEL PUMPS
WC TANK
EC TANK
CUTTER STOCK TANKS
CHADWICK CHANNEL
UNIT 3 & 4 DRAIN LINE
UNIT 1 & 2 DRAIN LINE
220 kV SWITCHYARD
TRANSFORMERS
66 kV SWITCHYARD
WASTE WATER RETENTION BASINS
PROPERTY LINE
SW TANK
SE TANK
FUEL OIL TANKS
GATE
STORM DRAIN
DISTILLATE TANK
LEGEND
ACID RETENTION BASIN
PROPERTY LINE
GRAPHIC SCALE
100 50 0 100 200 300 400 500 600 700 800 900 1000 FT
NOTE!
UNIT 5
GAS TURBINE PEAKING UNIT

| | | |

Basins under the cooling towers SWMUs

Reliant has to close out.

Reliant will revitalize - demo towers + rebuild

① not on auto shredder

Sewer or water

Sump discharge to Change

Workplan to come

piping left to do - then closure & Complete

vegetated area

Cooling Tower

Cooling Tower

Reservoir

Cooling Towers

Unit No. 4

Unit No. 3

Unit No. 2

Unit No. 1

Unit No. 5

RO basin

reclaim H2O

intake empty unit

new production well

Switchyard

EW-1

North Retention Basin

South Retention Basin

Property Line

EW-5

Boiler Chemical Cleaning Basin

Distillate Tank for Unit #5

EW-2

EW-6

EW-4

EW-3

East Well

Fence

Central Well

Property Line

0 100 200 300 400

grassland prairie plant

Rancho Vista Substation

former AGTS SCE

easement

chaparral

other tanks

(3) 800 ft production wells

≥ 2,000 gpm

1 production well moved

new switch yard

never actually used

etiwanda

some investigation but not closed

not in service

some investigation but not closed

100 investigation contam 5 - to 90 - Nickel

ETIWANDA GENERATING STATION

LOCATION OF BASINS

FIGURE 3

RO basin investigated when Org Sweep

Slant borings - lawph

TAMCO

FERROMET

BERNELL HYDRAULICS

WATER TOWER

SURFACE RUN-ON

STORM SEWER PIPELINE

RAILROAD

STANDPIPE

UNIT 4 COOLING TOWER

UNIT 3 COOLING TOWERS

UNIT 1 & 2 COOLING TOWERS

SULFURIC ACID STORAGE TANK

STORM DRAINS

RESERVOIR

METAL SHOP

FORMER LOCATION OF WATER SOFTENER & BRINE PIT

SEPTIC SYSTEM

SCRAP METAL YARD

GAS METERING STATION

SURFACE RUNOFF

SOLID WASTE DISPOSAL (LANDFILL)

LF-1

LF-2

LF-3

DIESEL POWERED FIRE FIGHTING PUMP STATION

TEMP. STAGING OF BOILER WASH WATER STORAGE TANKS

COOLING WATER SLUDGE DEWATERING

SULFURIC ACID TANK

HYPOCHLORITE TANK

BEARING COOLING WATER SYSTEM

OIL/WATER SEPARATOR

OIL/WATER BLOW DOWN DISCHARGE

RECIRCULATING PUMPS SUMP

SECONDARY FUEL OIL SUMP

UNITS 3 & 4 POWERBLOCKS

DISTILLED WATER

SOUTH SUMP

UNIT 3 TRANSFORMER

UNIT 2 TRANSFORMERS

UNIT 1 TRANSFORMERS

UNITS 1 & 2 POWERBLOCKS

FUEL OIL SUMP

WASTE WATER SUMP

PRESS SUMP

TURBINE LUBE/OIL

500 GAL UST

FLOOR DRAIN SUMP

ADM. BLDG

CARPORT

UST-1

UST-2

ACID/CAUSTIC TANKS

1995 REPORTED TRANSFORMER OIL SPILL

LEAD-LINED ACID PIPELINE

PEAKER UNIT (UNIT 5) POWERBLOCK

PEAKER UNIT (UNIT 5) TRANSFORMER

ETIWANDA AVENUE

ETIWANDA PARKWAY

SEWERLINE TO POTW

MAIN GATE

NORTHWEST FUEL OIL TANK

NORTHEAST FUEL OIL TANK

REPORTED FORMER FOMATE FIRE FIGHTING STATION

HAZARDOUS WASTE STORAGE AREA

LOADING RACK

EXISTING FUEL OIL AREA

FUEL OIL SUMP PRIMARY PUMP FACILITY

PIG SUMP

FUEL OIL PIPELINE

OIL HEATERS

WASTE WATER DISPOSAL POND

SUMP W/EARTHEN FLOOR

CENTER WEST FUEL OIL TANK

CENTER EAST FUEL OIL TANK

WEST

EAST

NEW DISPLACEMENT OIL TANK

BONE YARD (LAYDOWN AREA)

BRICK BUILDING

TRANSFORMER

220 KV SWITCHYARD

66 KV SWITCHYARD

RETENTION BASINS

DISTILLATE PIPELINE

DISTILLATE TANK

STORM SEWER OUTFALL

BOILER CHEMICAL CLEANING BASIN

SOUTHWEST FUEL OIL TANK

SOUTHEAST FUEL OIL TANK

CHADWICK CHANNEL

VACANT EDISON PROPERTY

Copeland Peaker Plant

Reche Vista Substation

New Substation

SCE

WEST WELL

UTILITY POLE STORAGE AREA

UP-1

UP-2

CONCRETE PAD

AR-3

AGRICULTURAL RESEARCH AREA

AR-1

AR-2

SECOND SOLID WASTE DISPOSAL AREA (SECOND LANDFILL)

LF2-1

LF2-2

SPREADING BASIN

CENTER WELL

VINEYARD WATER TANK

CS-1

CS-2

EAST WELL

SURFACE RUNOFF

SIXTH STREET

WATER TANK

FORMER DRY WELL

FORMER PUMPS

EXISTING TRASH COMPACTOR

BRINE PIT

FORMER ACID TANK

DEGASSING TOWER

FORMER SOFTENERS

OLD CHEM LAB

LEAD-LINED ACID PIPELINE LIMIT OF EXCAVATION

BLOW-UP OF FORMER WATER SOFTENER AND BRINE PIT AREA

LEGEND

- STORM OR SANITARY SEWER
- RAILROAD
- FENCE
- MWD WATER AQUEDUCT
- ACID LINES
- BURIED FUEL LINES
- SOIL SAMPLING LOCATION – PHASE II ESA
- PREVIOUS SOIL BORING LOCATION
- MONITORING WELL
- EDISON LEAK DETECTION INVESTIGATION BORING LOCATION
- GROUNDWATER SUPPLY WELL

NOTE: THIS DRAWING WAS ADAPTED FROM DRAWINGS SUPPLIED BY EDISON AND IT DOES NOT PURPORT TO SHOW ALL SITE FEATURES.

GERAGHTY & MILLER, INC.
Environmental Services
a heldemij company

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0 150
USE TO VERIFY FIGURE REPRODUCTION SCALE

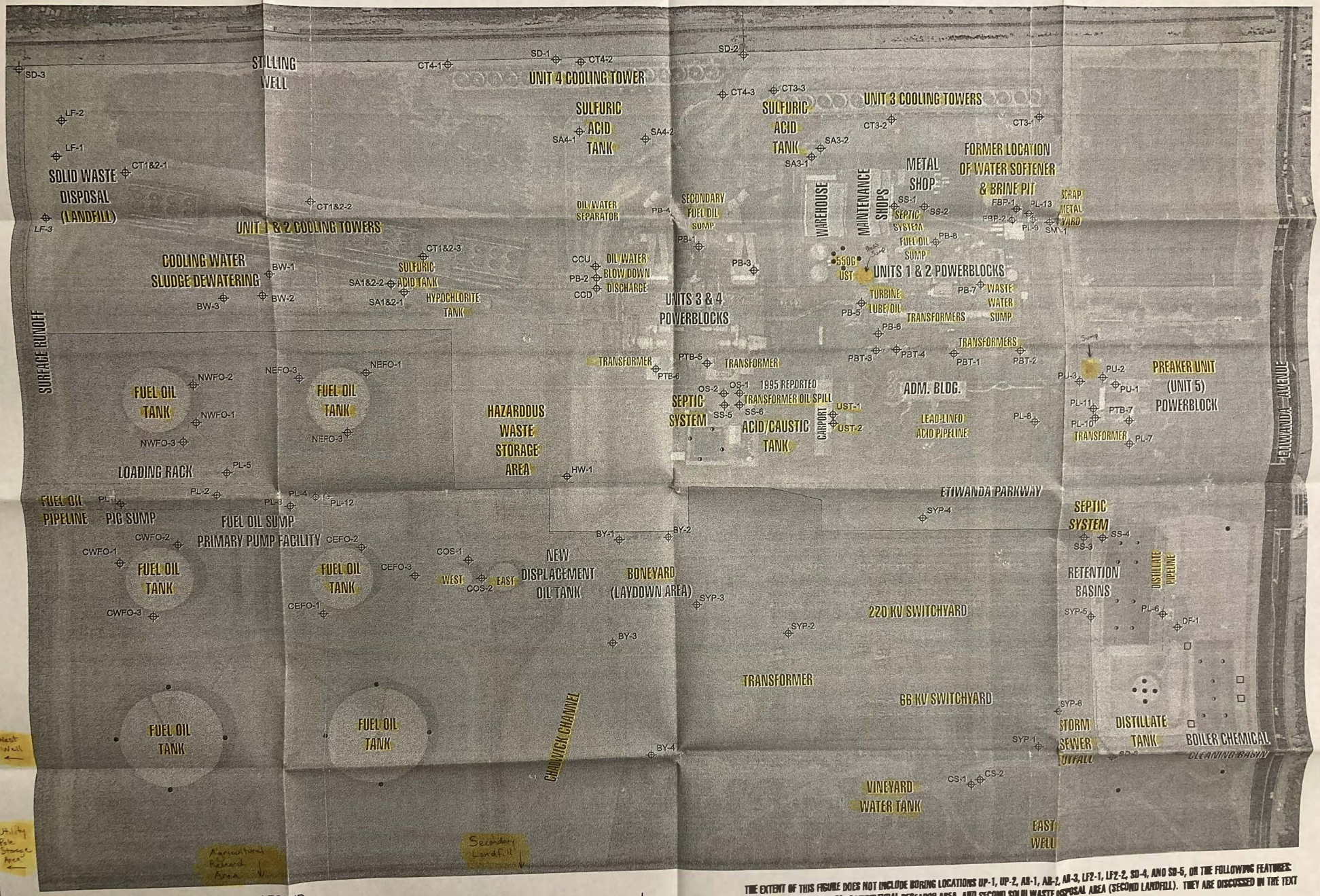
REV. NO.	DATE	DESCRIPTION	BY	APPR.

PROJECT NO.: 0A0231.001	HARD FILE: R121986
DRAWING: E_SL_3L	PLOT SIZE: 34X22
DRAFTED BY: MRP/JDB	DATE: 29 MAY 97
CHECKED BY: TBG	DATE:
APPROVED BY: LAH	DATE:

SITE LAYOUT AND SAMPLING LOCATIONS

ETIWANDA GENERATING STATION
ETIWANDA, CA

FIGURE 2



LEGEND

- CT3-2 ⊕ SOIL SAMPLING LOCATION
- • PREVIOUS SOIL BORING LOCATION
- ⊙ PROPOSED EDISON LEAK DETECTION BORING
- □ MONITORING WELL
- → OPEN CHANNEL FLOWPATH

- PROPERTY TO BE SOLD
- PROPERTY TO BE RETAINED

N

THE EXTENT OF THIS FIGURE DOES NOT INCLUDE BORING LOCATIONS UP-1, UP-2, AR-1, AR-2, AR-3, LF2-1, LF2-2, SD-4, AND SD-5, OR THE FOLLOWING FEATURES: UTILITY POLE STORAGE AREA, AGRICULTURAL RESEARCH AREA, AND SECOND SOLID WASTE DISPOSAL AREA (SECOND LANDFILL). THEY ARE DISCUSSED IN THE TEXT AND INCLUDED IN EDISON-OWNED PROPERTY TO BE RETAINED.

GERAGHTY & MILLER, INC.
Environment and Infrastructure
a heidemij company

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SITE LAYOUT AND SAMPLE LOCATIONS

ETIWANDA GENERATING STATION
ETIWANDA, CA

FIGURE
2