Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4120051-1 09/13/24 17:06 LCS 4120051-2 09/13/24 17:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.125	0.131	0.128	105	102	64.0-132			2.32	20
Bromomethane	0.125	0.123	0.122	98.4	97.6	56.0-147			0.816	20
n-Butylbenzene	0.125	0.141	0.134	113	107	68.0-135			5.09	20
sec-Butylbenzene	0.125	0.135	0.134	108	107	74.0-130			0.743	20
tert-Butylbenzene	0.125	0.132	0.133	106	106	75.0-127			0.755	20
Carbon tetrachloride	0.125	0.151	0.150	121	120	66.0-128			0.664	20
Chlorobenzene	0.125	0.129	0.125	103	100	76.0-128			3.15	20
Chlorodibromomethane	0.125	0.129	0.125	103	100	74.0-127			3.15	20
Chloroethane	0.125	0.126	0.120	101	96.0	61.0-134			4.88	20
Chloroform	0.125	0.130	0.127	104	102	72.0-123			2.33	20
Chloromethane	0.125	0.101	0.0995	80.8	79.6	51.0-138			1.50	20
2-Chlorotoluene	0.125	0.135	0.131	108	105	75.0-124			3.01	20
4-Chlorotoluene	0.125	0.125	0.121	100	96.8	75.0-124			3.25	20
1,2-Dibromo-3-Chloropropane	0.125	0.134	0.127	107	102	59.0-130			5.36	20
1,2-Dibromoethane	0.125	0.126	0.122	101	97.6	74.0-128			3.23	20
Dibromomethane	0.125	0.129	0.131	103	105	75.0-122			1.54	20
1,2-Dichlorobenzene	0.125	0.136	0.128	109	102	76.0-124			6.06	20
1,3-Dichlorobenzene	0.125	0.132	0.127	106	102	76.0-125			3.86	20
1,4-Dichlorobenzene	0.125	0.130	0.128	104	102	77.0-121			1.55	20
Dichlorodifluoromethane	0.125	0.141	0.129	113	103	43.0-156			8.89	20
1,1-Dichloroethane	0.125	0.128	0.129	102	103	70.0-127			0.778	20
1,2-Dichloroethane	0.125	0.131	0.126	105	101	65.0-131			3.89	20
1,1-Dichloroethene	0.125	0.131	0.128	105	102	65.0-131			2.32	20
cis-1,2-Dichloroethene	0.125	0.136	0.131	109	105	73.0-125			3.75	20
trans-1,2-Dichloroethene	0.125	0.127	0.129	102	103	71.0-125			1.56	20
1,2-Dichloropropane	0.125	0.125	0.123	100	98.4	74.0-125			1.61	20
1,1-Dichloropropene	0.125	0.147	0.137	118	110	73.0-125			7.04	20
1,3-Dichloropropane	0.125	0.125	0.122	100	97.6	80.0-125			2.43	20
cis-1,3-Dichloropropene	0.125	0.129	0.127	103	102	76.0-127			1.56	20
trans-1,3-Dichloropropene	0.125	0.125	0.124	100	99.2	73.0-127			0.803	20
2,2-Dichloropropane	0.125	0.140	0.138	112	110	59.0-135			1.44	20
Di-isopropyl ether	0.125	0.121	0.120	96.8	96.0	60.0-136			0.830	20
Ethylbenzene	0.125	0.137	0.136	110	109	74.0-126			0.733	20
Hexachloro-1,3-butadiene	0.125	0.130	0.138	104	110	57.0-150			5.97	20
Isopropylbenzene	0.125	0.138	0.134	110	107	72.0-127			2.94	20
p-Isopropyltoluene	0.125	0.135	0.133	108	106	72.0-133			1.49	20
2-Butanone (MEK)	0.625	0.596	0.600	95.4	96.0	30.0-160			0.669	24
Methylene Chloride	0.125	0.124	0.118	99.2	94.4	68.0-123			4.96	20
4-Methyl-2-pentanone (MIBK)	0.625	0.655	0.642	105	103	56.0-143			2.00	20
Methyl tert-butyl ether	0.125	0.131	0.125	105	100	66.0-132			4.69	20

Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4120051-1 09/13/24 17:06 LCS 4120051-2 09/13/24 17:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.125	0.116	0.115	92.8	92.0	59.0-130			0.866	20
n-Propylbenzene	0.125	0.143	0.136	114	109	74.0-126			5.02	20
Styrene	0.125	0.129	0.126	103	101	72.0-127			2.35	20
1,1,1,2-Tetrachloroethane	0.125	0.141	0.137	113	110	74.0-129			2.88	20
1,1,2,2-Tetrachloroethane	0.125	0.123	0.121	98.4	96.8	68.0-128			1.64	20
1,1,2-Trichlorotrifluoroethane	0.125	0.141	0.133	113	106	61.0-139			5.84	20
Tetrachloroethene	0.125	0.138	0.131	110	105	70.0-136			5.20	20
Toluene	0.125	0.131	0.125	105	100	75.0-121			4.69	20
1,2,3-Trichlorobenzene	0.125	0.128	0.123	102	98.4	59.0-139			3.98	20
1,2,4-Trichlorobenzene	0.125	0.135	0.134	108	107	62.0-137			0.743	20
1,1,1-Trichloroethane	0.125	0.145	0.140	116	112	69.0-126			3.51	20
1,1,2-Trichloroethane	0.125	0.127	0.123	102	98.4	78.0-123			3.20	20
Trichloroethene	0.125	0.148	0.140	118	112	76.0-126			5.56	20
Trichlorofluoromethane	0.125	0.130	0.126	104	101	61.0-142			3.12	20
1,2,3-Trichloropropane	0.125	0.127	0.124	102	99.2	67.0-129			2.39	20
1,2,4-Trimethylbenzene	0.125	0.126	0.123	101	98.4	70.0-126			2.41	20
1,2,3-Trimethylbenzene	0.125	0.127	0.122	102	97.6	74.0-124			4.02	20
1,3,5-Trimethylbenzene	0.125	0.128	0.126	102	101	73.0-127			1.57	20
Vinyl chloride	0.125	0.124	0.124	99.2	99.2	63.0-134			0.000	20
Xylenes, Total	0.375	0.405	0.387	108	103	72.0-127			4.55	20
(S) Toluene-d8				*101*	*101*	*75.0-131*				
(S) 4-Bromofluorobenzene				*99.2*	*99.9*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*101*	*101*	*70.0-130*				

Method an M

M 4120250-1 09/15/24 23:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		0.733	4.00
(S) o-Terphenyl	*60.7*			*18.0-148*

Laborator Contro Samp e LCS

LCS 4120250-2 09/16/24 00:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C12-C22 Hydrocarbons	50.0	36.9	73.8	50.0-150	
(S) o-Terphenyl			*73.9*	*18.0-148*	

L1776452-07 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776452-07 09/16/24 00:19 MS 4120250-3 09/16/24 00:31 MS 4120250-4 09/16/24 00:44

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C12-C22 Hydrocarbons	59.6	U	33.1	28.2	55.5	47.1	1	50.0-150		6	16.0	20
(S) o-Terphenyl					*48.7*	*38.8*		*18.0-148*				

Method an M

M 4120395-1 09/14/24 17:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2,4-D	U		0.00702	0.0700
Dalapon	U		0.0113	0.0700
2,4-DB	U		0.0297	0.0700
Dicamba	U		0.0157	0.0700
Dichloroprop	U		0.0245	0.0700
Dinoseb	U		0.00697	0.0700
MCPA	U		0.443	6.50
MCPP	U		0.367	6.50
2,4,5-T	U		0.00852	0.0700
2,4,5-TP (Silvex)	U		0.0107	0.0700
(S) 2,4-Dichlorophenyl Acetic Acid	*76.0*			*22.0-132*

Laborator Contro Samp e LCS

LCS 4120395-2 09/14/24 17:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
2,4-D	0.0833	0.0649	77.9	40.0-120	
Dalapon	0.0833	0.0652	78.3	15.0-120	
2,4-DB	0.0833	0.0612	73.5	25.0-143	
Dicamba	0.0833	0.0611	73.3	43.0-120	
Dichloroprop	0.0833	0.0584	70.1	32.0-129	
Dinoseb	0.0833	0.0231	27.7	10.0-120	
MCPA	8.33	6.92	83.1	31.0-121	
MCPP	8.33	5.65	67.8	28.0-133	
2,4,5-T	0.0833	0.0623	74.8	41.0-120	
2,4,5-TP (Silvex)	0.0833	0.0590	70.8	42.0-120	
(S) 2,4-Dichlorophenyl Acetic Acid			*79.0*	*22.0-132*	

L1775589-03 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775589-03 09/14/24 23:38 MS 4120395-3 09/14/24 23:48 MS 4120395-4 09/14/24 23:58

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4-D	0.0834	U	0.102	0.109	123	132	1	10.0-160	P	P	6.70	24
Dalapon	0.0834	U	0.0624	0.0644	74.8	77.6	1	10.0-121			3.19	27
2,4-DB	0.0834	U	0.0781	0.0876	93.7	105	1	10.0-160	P	P	11.5	22

CONFIDENTIAL
No reliance without separate reliance agreement.

L1775589-03 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775589-03 09/14/24 23:38 MS 4120395-3 09/14/24 23:48 MS 4120395-4 09/14/24 23:58

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg				%	%		%			%	%
Dicamba	0.0834	U	0.0586	0.0581	70.4	70.0	1	10.0-154			0.867	21
Dichloroprop	0.0834	U	0.0691	0.0614	82.9	73.9	1	10.0-158			11.8	20
Dinoseb	0.0834	U	0.0415	0.0404	49.8	48.7	1	10.0-120			2.72	40
MCPA	8.34	U	7.78	43.2	93.3	521	1	10.0-160		E 3 5P	139	40
MCPP	8.34	U	7.36	8.30	88.3	99.9	1	10.0-160			11.9	40
2,4,5-T	0.0834	U	0.0550	0.0604	66.0	72.7	1	10.0-157			9.31	20
2,4,5-TP (Silvex)	0.0834	U	0.0581	0.0606	69.7	72.9	1	10.0-156			4.10	20
(S) 2,4-Dichlorophenyl Acetic Acid					*78.8*	*69.5*		*22.0-132*				

Method an M

M 4120335-1 09/16/24 11:18

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Azinphos-Methyl	U		0.0318	0.100
Bolstar (Sulprofos)	U		0.0149	0.100
Chlorpyrifos	U		0.0157	0.100
Coumaphos	U		0.0243	0.100
Demeton,-O and -S	U		0.00584	0.0700
Diazinon	U		0.0225	0.100
Dichlorvos	U		0.0300	0.100
Dimethoate	U		0.0334	0.100
Disulfoton	U		0.0254	0.100
EPN	U		0.0276	0.100
Ethoprop	U		0.0118	0.100
Ethyl Parathion	U		0.0164	0.100
Fensulfothion	U		0.0353	0.100
Fenthion	U		0.0133	0.100
Malathion	U		0.0179	0.100
Merphos	U		0.0232	0.100
Methyl parathion	U		0.0203	0.100
Mevinphos	U		0.0230	0.100
Naled	U		0.0480	0.100
Phorate	U		0.0210	0.100
Ronnel	U		0.0149	0.100
Stirophos	U		0.0178	0.100
Sulfotep	U		0.00986	0.100
TEPP	U		0.157	1.00
Tokuthion (Prothothiofos)	U		0.0150	0.100
Trichloronate	U		0.0201	0.100
(S) Triphenyl Phosphate	*106*			*36.0-121*

Laborator Contro Samp e LCS

LCS 4120335-2 09/16/24 11:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Azinphos-Methyl	0.333	0.381	114	58.0-125	
Bolstar (Sulprofos)	0.333	0.358	108	64.0-120	
Chlorpyrifos	0.333	0.368	111	62.0-120	
Coumaphos	0.333	0.382	115	60.0-120	
Demeton,-O and -S	0.167	0.189	113	59.0-120	
Diazinon	0.333	0.353	106	49.0-120	

Laborator Contro Samp e LCS

LCS 4120335-2 09/16/24 11:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dichlorvos	0.333	0.264	79.3	37.0-120	
Dimethoate	0.333	0.390	117	46.0-127	
Disulfoton	0.333	0.357	107	60.0-121	
EPN	0.333	0.386	116	60.0-121	
Ethoprop	0.333	0.369	111	59.0-120	
Ethyl Parathion	0.333	0.403	121	62.0-120	4
Fensulfothion	0.333	0.368	111	58.0-123	
Fenthion	0.333	0.350	105	61.0-121	
Malathion	0.333	0.389	117	59.0-120	
Merphos	0.333	0.310	93.1	59.0-120	
Methyl parathion	0.333	0.365	110	63.0-120	
Mevinphos	0.333	0.330	99.1	50.0-120	
Naled	0.333	0.229	68.8	10.0-125	
Phorate	0.333	0.360	108	60.0-120	
Ronnel	0.333	0.350	105	62.0-120	
Stirophos	0.333	0.361	108	62.0-120	
Sulfotep	0.333	0.444	133	62.0-122	4
TEPP	3.33	1.42	42.6	10.0-135	
Tokuthion (Prothothiofos)	0.333	0.346	104	63.0-120	
Trichloronate	0.333	0.355	107	62.0-120	
(S) Triphenyl Phosphate			*109*	*36.0-121*	

L1776835-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776835-01 09/16/24 14:39 MS 4120335-3 09/16/24 15:13 MS 4120335-4 09/16/24 15:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Azinphos-Methyl	0.350	U	0.384	0.364	110	104	1	10.0-160			5.50	22
Bolstar (Sulprofos)	0.350	U	0.371	0.347	106	99.1	1	10.0-151			6.94	20
Chlorpyrifos	0.350	U	0.379	0.360	108	103	1	12.0-149			5.28	20
Coumaphos	0.350	U	0.427	0.401	122	115	1	10.0-160			6.28	22
Demeton,-O and -S	0.175	U	0.184	0.177	105	101	1	10.0-160			4.20	23
Diazinon	0.350	U	0.375	0.353	107	101	1	11.0-157			5.95	20
Dichlorvos	0.350	U	0.452	0.409	129	117	1	10.0-160			9.81	24
Dimethoate	0.350	U	0.396	0.376	113	107	1	10.0-150			5.33	27
Disulfoton	0.350	U	0.347	0.329	99.1	94.1	1	12.0-155			5.13	20
EPN	0.350	U	0.403	0.380	115	109	1	10.0-159			5.81	20
Ethoprop	0.350	U	0.365	0.341	104	97.5	1	11.0-156			6.75	20
Ethyl Parathion	0.350	U	0.422	0.397	121	114	1	10.0-147			6.08	20

L1776835-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776835-01 09/16/24 14:39 MS 4120335-3 09/16/24 15:13 MS 4120335-4 09/16/24 15:46

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg				%	%		%			%	%
Fensulfothion	0.350	U	0.386	0.355	110	102	1	10.0-157			8.19	27
Fenthion	0.350	U	0.351	0.350	100	100	1	13.0-155			0.309	20
Malathion	0.350	U	0.414	0.393	118	112	1	13.0-137			5.10	21
Merphos	0.350	U	0.325	0.300	92.9	85.8	1	10.0-147			7.97	26
Methyl parathion	0.350	U	0.376	0.362	107	103	1	10.0-150			3.82	21
Mevinphos	0.350	U	0.329	0.300	94.1	85.8	1	10.0-158			9.29	24
Naled	0.350	U	U	U	8.79	4.55	1	10.0-137	6	3 6	63.6	40
Phorate	0.350	U	0.357	0.336	102	96.0	1	13.0-154			6.25	20
Ronnel	0.350	U	0.349	0.331	99.7	94.7	1	14.0-149			5.10	20
Stirophos	0.350	U	0.371	0.349	106	99.7	1	10.0-150			6.32	20
Sulfotep	0.350	U	0.441	0.416	126	119	1	10.0-160			5.82	20
TEPP	3.50	U	0.941	0.604	26.9	17.3	1	10.0-142		3	43.6	28
Tokuthion (Prothothiofos)	0.350	U	0.370	0.352	106	101	1	12.0-153			5.10	20
Trichloronate	0.350	U	0.384	0.331	110	94.7	1	12.0-152			14.8	20
(S) Triphenyl Phosphate					*109*	*103*		*36.0-121*				

Method an M

M 4120260-1 09/14/24 23:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00376	0.0200
Alpha BHC	U		0.00368	0.0200
Beta BHC	U		0.00379	0.0200
Delta BHC	U		0.00346	0.0200
Gamma BHC	U		0.00344	0.0200
4,4-DDD	U		0.00370	0.0200
4,4-DDE	U		0.00366	0.0200
4,4-DDT	U		0.00627	0.0200
Dieldrin	U		0.00344	0.0200
Endosulfan I	U		0.00363	0.0200
Endosulfan II	U		0.00335	0.0200
Endosulfan sulfate	U		0.00364	0.0200
Endrin	U		0.00350	0.0200
Endrin aldehyde	U		0.00339	0.0200
Endrin ketone	U		0.00711	0.0200
Heptachlor	U		0.00428	0.0200
Heptachlor epoxide	U		0.00339	0.0200
Hexachlorobenzene	U		0.00346	0.0200
Methoxychlor	U		0.00484	0.0200
Chlordane	U		0.103	0.300
Toxaphene	U		0.124	0.400
(S) Decachlorobiphenyl	*94.6*			*10.0-135*
(S) Tetrachloro-m-xylene	*94.9*			*10.0-139*

Laborator Contro Samp e LCS

LCS 4120260-2 09/14/24 23:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0675	101	34.0-136	
Alpha BHC	0.0666	0.0683	103	34.0-139	
Beta BHC	0.0666	0.0630	94.6	34.0-133	
Delta BHC	0.0666	0.0631	94.7	34.0-135	
Gamma BHC	0.0666	0.0671	101	34.0-136	
4,4-DDD	0.0666	0.0672	101	33.0-141	
4,4-DDE	0.0666	0.0666	100	34.0-134	
4,4-DDT	0.0666	0.0672	101	30.0-143	
Dieldrin	0.0666	0.0681	102	35.0-137	
Endosulfan I	0.0666	0.0649	97.4	34.0-134	

Laborator Contro Samp e LCS

LCS 4120260-2 09/14/24 23:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	0.0666	0.0664	99.7	35.0-132	
Endosulfan sulfate	0.0666	0.0659	98.9	35.0-132	
Endrin	0.0666	0.0668	100	34.0-137	
Endrin aldehyde	0.0666	0.0621	93.2	23.0-121	
Endrin ketone	0.0666	0.0667	100	35.0-144	
Heptachlor	0.0666	0.0753	113	36.0-141	
Heptachlor epoxide	0.0666	0.0688	103	36.0-134	
Hexachlorobenzene	0.0666	0.0671	101	33.0-129	
Methoxychlor	0.0666	0.0633	95.0	28.0-150	
(S) Decachlorobiphenyl			*97.7*	*10.0-135*	
(S) Tetrachloro-m-xylene			*94.1*	*10.0-139*	

L1775074-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775074-01 09/15/24 01:16 MS 4120260-3 09/15/24 01:26 MS 4120260-4 09/15/24 01:36

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0666	U	0.0300	0.0306	45.0	45.9	1	20.0-135			1.98	37
Alpha BHC	0.0666	U	0.0308	0.0313	46.2	47.0	1	27.0-140			1.61	35
Beta BHC	0.0666	U	0.0291	0.0293	43.7	44.0	1	23.0-141			0.685	37
Delta BHC	0.0666	U	0.0281	0.0272	42.2	40.8	1	21.0-138			3.25	35
Gamma BHC	0.0666	U	0.0305	0.0312	45.8	46.8	1	27.0-137			2.27	36
4,4-DDD	0.0666	U	0.0304	0.0314	45.6	47.1	1	15.0-152			3.24	39
4,4-DDE	0.0666	U	0.0323	0.0351	48.5	52.7	1	10.0-152			8.31	40
4,4-DDT	0.0666	U	0.0281	0.0299	42.2	44.9	1	10.0-151			6.21	40
Dieldrin	0.0666	U	0.0301	0.0304	45.2	45.6	1	17.0-145			0.992	37
Endosulfan I	0.0666	U	0.0278	0.0286	41.7	42.9	1	20.0-137			2.84	36
Endosulfan II	0.0666	U	0.0265	0.0241	39.8	36.2	1	15.0-141			9.49	37
Endosulfan sulfate	0.0666	U	0.0248	0.0206	37.2	30.9	1	15.0-143			18.5	38
Endrin	0.0666	U	0.0294	0.0301	44.1	45.2	1	19.0-143			2.35	37
Endrin aldehyde	0.0666	U	0.0256	0.0236	38.4	35.4	1	10.0-139			8.13	40
Endrin ketone	0.0666	U	0.0271	0.0245	40.7	36.8	1	17.0-149			10.1	38
Heptachlor	0.0666	U	0.0341	0.0345	51.2	51.8	1	22.0-138			1.17	37
Heptachlor epoxide	0.0666	U	0.0307	0.0313	46.1	47.0	1	22.0-138			1.94	36
Hexachlorobenzene	0.0666	U	0.0318	0.0325	47.7	48.8	1	25.0-126			2.18	35
Methoxychlor	0.0666	U	0.0256	0.0232	38.4	34.8	1	10.0-159			9.84	40
(S) Decachlorobiphenyl					*31.8*	*48.5*		*10.0-135*				
(S) Tetrachloro-m-xylene					*34.1*	*50.2*		*10.0-139*				

Method an M

M 4122263-2 09/19/24 18:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00539	0.0333
Acenaphthylene	U		0.00469	0.0333
Anthracene	U		0.00593	0.0333
Benzidine	U		0.0626	1.67
Benzo(a)anthracene	U		0.00587	0.0333
Benzo(b)fluoranthene	U		0.00621	0.0333
Benzo(k)fluoranthene	U		0.00592	0.0333
Benzo(g,h,i)perylene	U		0.00609	0.0333
Benzo(a)pyrene	U		0.00619	0.0333
Bis(2-chlorethoxy)methane	U		0.0100	0.333
Bis(2-chloroethyl)ether	U		0.0110	0.333
2,2-Oxybis(1-Chloropropane)	U		0.0144	0.333
4-Bromophenyl-phenylether	U		0.0117	0.333
2-Chloronaphthalene	U		0.00585	0.0333
4-Chlorophenyl-phenylether	U		0.0116	0.333
Chrysene	U		0.00662	0.0333
Dibenz(a,h)anthracene	U		0.00923	0.0333
3,3-Dichlorobenzidine	U		0.0123	0.333
2,4-Dinitrotoluene	U		0.00955	0.333
2,6-Dinitrotoluene	U		0.0109	0.333
Fluoranthene	U		0.00601	0.0333
Fluorene	U		0.00542	0.0333
Hexachlorobenzene	U		0.0118	0.333
Hexachloro-1,3-butadiene	U		0.0112	0.333
Hexachlorocyclopentadiene	U		0.0175	0.333
Hexachloroethane	U		0.0131	0.333
Indeno(1,2,3-cd)pyrene	U		0.00941	0.0333
Isophorone	U		0.0102	0.333
Naphthalene	U		0.00836	0.0333
Nitrobenzene	U		0.0116	0.333
n-Nitrosodimethylamine	U		0.0494	0.333
n-Nitrosodiphenylamine	U		0.0252	0.333
n-Nitrosodi-n-propylamine	U		0.0111	0.333
Phenanthrene	U		0.00661	0.0333
Benzylbutyl phthalate	U		0.0104	0.333
Bis(2-ethylhexyl)phthalate	U		0.0422	0.333
Di-n-butyl phthalate	U		0.0114	0.333
Diethyl phthalate	U		0.0110	0.333
Dimethyl phthalate	U		0.0706	0.333
Di-n-octyl phthalate	U		0.0225	0.333

Method an M

M 4122263-2 09/19/24 18:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.00648	0.0333
1,2,4-Trichlorobenzene	U		0.0104	0.333
4-Chloro-3-methylphenol	U		0.0108	0.333
2-Chlorophenol	U		0.0110	0.333
2,4-Dichlorophenol	U		0.00970	0.333
2,4-Dimethylphenol	U		0.00870	0.333
4,6-Dinitro-2-methylphenol	U		0.0755	0.333
2,4-Dinitrophenol	U		0.0779	0.333
2-Nitrophenol	U		0.0119	0.333
4-Nitrophenol	U		0.0104	0.333
Pentachlorophenol	U		0.00896	0.333
Phenol	U		0.0134	0.333
2,4,6-Trichlorophenol	U		0.0107	0.333
(S) 2-Fluorophenol	*73.7*			*12.0-120*
(S) Phenol-d5	*69.4*			*10.0-120*
(S) Nitrobenzene-d5	*58.6*			*10.0-122*
(S) 2-Fluorobiphenyl	*74.2*			*15.0-120*
(S) 2,4,6-Tribromophenol	*75.8*			*10.0-127*
(S) p-Terphenyl-d14	*88.6*			*10.0-120*

Laborator Contro Samp e LCS

LCS 4122263-1 09/19/24 18:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.399	59.9	38.0-120	
Acenaphthylene	0.666	0.393	59.0	40.0-120	
Anthracene	0.666	0.474	71.2	42.0-120	
Benzidine	1.33	0.314	23.6	10.0-120	-
Benzo(a)anthracene	0.666	0.512	76.9	44.0-120	
Benzo(b)fluoranthene	0.666	0.516	77.5	43.0-120	
Benzo(k)fluoranthene	0.666	0.512	76.9	44.0-120	
Benzo(g,h,i)perylene	0.666	0.478	71.8	43.0-120	
Benzo(a)pyrene	0.666	0.531	79.7	45.0-120	
Bis(2-chlorethoxy)methane	0.666	0.317	47.6	20.0-120	-
Bis(2-chloroethyl)ether	0.666	0.380	57.1	16.0-120	
2,2-Oxybis(1-Chloropropane)	0.666	0.337	50.6	23.0-120	
4-Bromophenyl-phenylether	0.666	0.481	72.2	40.0-120	
2-Chloronaphthalene	0.666	0.379	56.9	35.0-120	

Laborator Contro Samp e LCS

LCS 4122263-1 09/19/24 18:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Chlorophenyl-phenylether	0.666	0.436	65.5	40.0-120	
Chrysene	0.666	0.521	78.2	43.0-120	
Dibenz(a,h)anthracene	0.666	0.521	78.2	44.0-120	
3,3-Dichlorobenzidine	1.33	1.05	78.9	28.0-120	
2,4-Dinitrotoluene	0.666	0.522	78.4	45.0-120	
2,6-Dinitrotoluene	0.666	0.442	66.4	42.0-120	
Fluoranthene	0.666	0.517	77.6	44.0-120	
Fluorene	0.666	0.434	65.2	41.0-120	
Hexachlorobenzene	0.666	0.466	70.0	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.323	48.5	15.0-120	
Hexachlorocyclopentadiene	0.666	0.00173	0.260	15.0-120	4
Hexachloroethane	0.666	0.315	47.3	17.0-120	
Indeno(1,2,3-cd)pyrene	0.666	0.490	73.6	45.0-120	
Isophorone	0.666	0.308	46.2	23.0-120	
Naphthalene	0.666	0.317	47.6	18.0-120	
Nitrobenzene	0.666	0.305	45.8	17.0-120	
n-Nitrosodimethylamine	0.666	0.354	53.2	10.0-125	
n-Nitrosodiphenylamine	0.666	0.455	68.3	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.361	54.2	26.0-120	
Phenanthrene	0.666	0.476	71.5	42.0-120	
Benzylbutyl phthalate	0.666	0.495	74.3	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.495	74.3	41.0-120	
Di-n-butyl phthalate	0.666	0.486	73.0	43.0-120	
Diethyl phthalate	0.666	0.482	72.4	43.0-120	
Dimethyl phthalate	0.666	0.419	62.9	43.0-120	
Di-n-octyl phthalate	0.666	0.494	74.2	40.0-120	
Pyrene	0.666	0.505	75.8	41.0-120	
1,2,4-Trichlorobenzene	0.666	0.321	48.2	17.0-120	
4-Chloro-3-methylphenol	0.666	0.281	42.2	28.0-120	
2-Chlorophenol	0.666	0.390	58.6	28.0-120	
2,4-Dichlorophenol	0.666	0.343	51.5	25.0-120	
2,4-Dimethylphenol	0.666	0.292	43.8	15.0-120	
4,6-Dinitro-2-methylphenol	0.666	0.399	59.9	16.0-120	
2,4-Dinitrophenol	0.666	0.263	39.5	10.0-120	
2-Nitrophenol	0.666	0.342	51.4	20.0-120	
4-Nitrophenol	0.666	0.484	72.7	27.0-120	
Pentachlorophenol	0.666	0.422	63.4	29.0-120	
Phenol	0.666	0.137	20.6	28.0-120	4
2,4,6-Trichlorophenol	0.666	0.362	54.4	37.0-120	
(S) 2-Fluorophenol			*59.9*	*12.0-120*	

Laborator Contro Samp e LCS

LCS 4122263-1 09/19/24 18:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) Phenol-d5			*19.1*	*10.0-120*	
(S) Nitrobenzene-d5			*37.2*	*10.0-122*	
(S) 2-Fluorobiphenyl			*57.7*	*15.0-120*	
(S) 2,4,6-Tribromophenol			*73.4*	*10.0-127*	
(S) p-Terphenyl-d14			*76.0*	*10.0-120*	

L1777210-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1777210-01 09/19/24 20:23 MS 4122263-3 09/19/24 20:44 MS 4122263-4 09/19/24 21:05

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.687	U	0.452	0.508	65.8	74.2	10	18.0-120			11.6	32
Acenaphthylene	0.687	U	0.416	0.485	60.5	70.8	10	25.0-120			15.4	32
Anthracene	0.687	U	0.432	0.470	62.8	68.6	10	22.0-120			8.50	29
Benzidine	1.38	U	U	U	0.000	0.000	10	10.0-120	6	6	0.000	40
Benzo(a)anthracene	0.687	U	0.491	0.522	71.4	76.1	10	25.0-120			6.13	29
Benzo(b)fluoranthene	0.687	U	0.507	0.556	73.8	81.1	10	19.0-122			9.15	31
Benzo(k)fluoranthene	0.687	U	0.529	0.568	77.0	82.9	10	23.0-120			7.17	30
Benzo(g,h,i)perylene	0.687	U	0.468	0.502	68.1	73.3	10	10.0-120			7.04	33
Benzo(a)pyrene	0.687	U	0.519	0.562	75.6	82.0	10	24.0-120			7.85	30
Bis(2-chlorethoxy)methane	0.687	U	0.404	0.455	58.7	66.5	10	10.0-120			12.0	34
Bis(2-chloroethyl)ether	0.687	U	0.464	0.558	67.5	81.4	10	10.0-120			18.4	40
2,2-Oxybis(1-Chloropropane)	0.687	U	0.417	0.448	60.7	65.4	10	10.0-120			7.18	40
4-Bromophenyl-phenylether	0.687	U	0.492	0.538	71.5	78.5	10	27.0-120			9.05	30
2-Chloronaphthalene	0.687	U	0.427	0.489	62.2	71.5	10	20.0-120			13.5	32
4-Chlorophenyl-phenylether	0.687	U	0.459	0.533	66.9	77.8	10	24.0-120			14.8	29
Chrysene	0.687	U	0.512	0.562	74.5	82.0	10	21.0-120			9.25	29
Dibenz(a,h)anthracene	0.687	U	0.495	0.530	72.0	77.3	10	10.0-120			6.87	32
3,3-Dichlorobenzidine	1.38	U	0.475	0.561	34.5	41.1	10	10.0-120			16.6	34
2,4-Dinitrotoluene	0.687	U	0.429	0.494	62.5	72.1	10	30.0-120			13.9	31
2,6-Dinitrotoluene	0.687	U	0.444	0.515	64.6	75.2	10	25.0-120			14.9	31
Fluoranthene	0.687	U	0.508	0.561	73.9	81.9	10	18.0-126			9.87	32
Fluorene	0.687	U	0.471	0.533	68.5	77.8	10	25.0-120			12.4	30
Hexachlorobenzene	0.687	U	0.478	0.514	69.6	75.1	10	27.0-120			7.30	28
Hexachloro-1,3-butadiene	0.687	U	0.435	0.503	63.3	73.4	10	10.0-120			14.6	38
Hexachlorocyclopentadiene	0.687	U	U	U	4.86	7.28	10	10.0-120	6	6	39.5	40
Hexachloroethane	0.687	U	0.300	0.379	43.7	55.3	10	10.0-120			23.2	40
Indeno(1,2,3-cd)pyrene	0.687	U	0.469	0.502	68.2	73.3	10	10.0-120			6.82	32
Isophorone	0.687	U	0.393	0.447	57.2	65.3	10	13.0-120			12.8	34

L1777210-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1777210-01 09/19/24 20:23 MS 4122263-3 09/19/24 20:44 MS 4122263-4 09/19/24 21:05

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.687	U	0.423	0.482	61.6	70.4	10	10.0-120			13.0	35
Nitrobenzene	0.687	U	0.417	0.455	60.7	66.5	10	10.0-120			8.78	36
n-Nitrosodimethylamine	0.687	U	U	U	0.000	0.000	10	10.0-127	6	6	0.000	40
n-Nitrosodiphenylamine	0.687	U	0.450	0.494	65.5	72.1	10	17.0-120			9.21	29
n-Nitrosodi-n-propylamine	0.687	U	0.420	0.495	61.1	72.2	10	10.0-120			16.3	37
Phenanthrene	0.687	U	0.483	0.533	70.3	77.8	10	17.0-120			9.78	31
Benzylbutyl phthalate	0.687	U	0.523	0.560	76.1	81.7	10	23.0-120			6.88	30
Bis(2-ethylhexyl)phthalate	0.687	U	0.543	0.573	79.1	83.7	10	17.0-126			5.38	30
Di-n-butyl phthalate	0.687	U	0.487	0.521	70.9	76.0	10	30.0-120			6.57	29
Diethyl phthalate	0.687	U	0.478	0.527	69.6	76.9	10	26.0-120			9.68	28
Dimethyl phthalate	0.687	U	U	U	66.9	75.7	10	25.0-120			12.1	29
Di-n-octyl phthalate	0.687	U	0.519	0.547	75.6	79.9	10	21.0-123			5.24	29
Pyrene	0.687	U	0.510	0.546	74.2	79.8	10	16.0-121			6.86	32
1,2,4-Trichlorobenzene	0.687	U	0.425	0.493	61.9	71.9	10	12.0-120			14.7	37
4-Chloro-3-methylphenol	0.687	U	0.428	0.479	62.3	69.9	10	15.0-120			11.2	30
2-Chlorophenol	0.687	U	0.441	0.503	64.2	73.4	10	15.0-120			13.2	37
2,4-Dichlorophenol	0.687	U	0.399	0.485	58.1	70.8	10	20.0-120			19.4	31
2,4-Dimethylphenol	0.687	U	0.406	0.453	59.0	66.2	10	10.0-120			11.1	33
4,6-Dinitro-2-methylphenol	0.687	U	U	U	20.5	20.2	10	10.0-120			1.48	39
2,4-Dinitrophenol	0.664	U	U	U	0.000	0.000	10	10.0-121	6	6	0.000	40
2-Nitrophenol	0.687	U	0.417	0.466	60.7	68.0	10	12.0-120			11.0	39
4-Nitrophenol	0.687	U	0.334	0.354	48.6	51.7	10	10.0-137			5.71	32
Pentachlorophenol	0.687	U	0.402	0.459	58.4	67.1	10	10.0-160			13.5	31
Phenol	0.687	U	0.427	0.474	62.2	69.2	10	12.0-120			10.3	38
2,4,6-Trichlorophenol	0.687	U	0.414	0.472	60.2	68.9	10	19.0-120			13.1	32
(S) 2-Fluorophenol					*64.8*	*76.9*		*12.0-120*				
(S) Phenol-d5					*61.4*	*68.6*		*10.0-120*				
(S) Nitrobenzene-d5					*50.6*	*59.2*		*10.0-122*				
(S) 2-Fluorobiphenyl					*63.0*	*72.8*		*15.0-120*				
(S) 2,4,6-Tribromophenol					*69.3*	*75.5*		*10.0-127*				
(S) p-Terphenyl-d14					*68.7*	*76.1*		*10.0-120*				

Sample Narrative:

OS: Dilution due to matrix impact during extract concentration procedure

u de to ead ng and Understand ng our Laborator eport

The nformat on be o s des gned to better e p a n the ar ous terms used n our report of ana t ca resu ts from the Laborator Th s s not ntended as a comprehens e e p anat on, and f ou ha e add t ona uest ons p ease contact our project representat e

esu ts sc a mer - Informat on that ma be pro ded b the customer, and conta ned th n th s report, nc ude Perm t L m ts, Project ame, Samp e I , Samp e Matr , Samp e Preser at on, e d an s, e d Sp es, e d up cates, n-S te ata, Samp ng Co ect on ates/T mes, and Samp ng Locat on esu ts re ate to the accurac of th s nformat on pro ded, and as the samp es are rece ed

Abbre at ons and ef n t ons

dr	esu ts are reported based on the dr e ght of the samp e th s on be present on a dr report bas s for so s
M L	Method etect on L m t
M L dr	Method etect on L m t
L	eported etect on L m t
L dr	eported etect on L m t
ec	eco er
P	e at e Percent fference
S	Samp e e er roup
S	Surrogate Surrogate Standard - Ana tes added to e er b an , samp e, Laborator Contro Samp e/ up cate and Matr Sp e/ up cate used to e a uate ana t ca eff c enc b measur ng reco er Surrogates are not e pected to be detected n a en ronmenta med a
U	ot detected at the eport ng L m t or M L here app cab e
Ana te	The name of the part cu ar compound or ana s s performed Some Ana ses and Methods ha e mu t p e ana tes reported
ut on	If the samp e matr conta ns an nterfer ng mater a , the samp e preparat on o ume or e ght a ues d ffer from the standard, or f concentrat ons of ana tes n the samp e are h gher than the h ghest m t of concentrat on that the aborator can accurate report, the samp e ma be d uted for ana s s If a a ue d fferent than 1 s used n th s f e d, the resu t reported has a read been corrected for th s factor
L m ts	These are the target reco er ranges or d fference a ue that the aborator has h stor ca determ ned as norma for the method and ana te be ng reported Successfu C Samp e ana s s target a ana tes reco ered or dup cated th n these ranges
r g na Samp e	The non-sp ed samp e n the prep batch used to determ ne the e at e Percent fference P from a ua t contro samp e The r g na Samp e ma not be nc uded th n the reported S
ua f er	Th s co umn pro des a etter and/or number des gnat on that corresponds to add t ona nformat on concern ng the resu t reported If a ua f er s present, a def n t on per ua f er s pro ded th n the ossar and ef n t ons page and potent a a d scuss on of poss b e mp cat ons of the ua f er n the Case arrat e f app cab e
esu t	The actua ana t ca f na resu t corrected for an samp e spec f c character st cs reported for our samp e If there as no measurab e resu t returned for a spec f c ana te, the resu t n th s co umn ma state ot etected or L e o etectab e Le e s The nformat on n the resu ts co umn shou d a a s be accompan ed b e ther an M L Method etect on L m t or L eport ng etect on L m t that def nes the o est a ue that the aborator cou d detect or report for th s ana te
Uncerta nt ad ochem str	Conf dence e e of 2 s gma
Case arrat e Cn	A br ef d scuss on about the nc uded samp e resu ts, nc ud ng a d scuss on of an non-conformances to protoco obser ed e ther at samp e rece pt b the aborator from the f e d or dur ng the ana t ca process If present, there be a sect on n the Case arrat e to d scuss the mean ng of an data ua f ers used n the report
ua t Contro Summar c	Th s sect on of the report nc udes the resu ts of the aborator ua t contro ana ses re u red b procedure or ana t ca methods to ass st n e a uat ng the a d t of the resu ts reported for our samp es These ana ses are not be ng performed on our samp es t p ca , but on aborator generated mater a
Samp e Cha n of Custod Sc	Th s s the document created n the f e d hen our samp es ere n t a co ected Th s s used to er f the t me and date of co ect on, the person co ect ng the samp es, and the ana ses that the aborator s re uested to perform Th s cha n of custod a so documents a persons e c ud ng commerc a sh ppers that ha e had contro or possess on of the samp es from the t me of co ect on unt de er to the aborator for ana s s
Samp e esu ts Sr	Th s sect on of our report pro de the resu ts of a test ng performed on our samp es These resu ts are pro ded b samp e I and are separated b the ana ses performed on each samp e The header ne of each ana s s sect on for each samp e pro de the name and method number for the ana s s reported
Samp e Summar Ss	Th s sect on of the Ana t ca eport def nes the spec f c ana ses performed for each samp e I , nc ud ng the dates and t mes of preparat on and/or ana s s

ua f er escr pt on

	The same ana te s found n the assoc ated b an
E	The ana te concentrat on e ceeds the upper m t of the ca brat on range of the nstrument estab shed b the n t a ca brat on ICAL
	The dent f cat on of the ana te s acceptab e the reported a ue s an est mate
3	The assoc ated batch C as outs de the estab shed ua t contro range for prec s on
4	The assoc ated batch C as outs de the estab shed ua t contro range for accurac
5	The samp e matr nterfered th the ab t to ma e an accurate determ nat on sp e a ue s h gh
6	The samp e matr nterfered th the ab t to ma e an accurate determ nat on sp e a ue s o
P	P bet een the pr mar and conf rmator ana s s e ceeded 40

ACC E ITATI S L CATI S

Pace Ana t ca at ona 12065 Lebanon d Mount u et, T 37122

Ala ama		Ne raska	N OS
Alaska		Nevada	N
Ari ona	A	Ne ampshire	
Arkansas		Ne ersey N LAP	N
California		Ne Me ico	N
Colorado	N	Ne ork	
Connecticut	P	North Carolina	nv
lorida		North Carolina	D
eorgia	N LAP	North Carolina	
eorgia		North Dakota	R
daho	N	Ohio AP	CL
llinois		Oklahoma	
ndiana	C N	Oregon	N
o a		Pennsylvania	
ansas		Rhode sland	LAO
entucky		South Carolina	
entucky		South Dakota	n a
Louisiana	A	ennessee	
Louisiana	LA	e as	
Maine	N	e as	LAB
Maryland		Utah	N
Massachusetts	M N	ermont	
Michigan		irginia	
Minnesota		ashington	C
Mississippi	N	est irginia	
Missouri		isconsin	
Montana	C R	yoming	A LA
A LA SO	.	A A LAP LLC MLAP	
A LA SO	.	DOD	.
Canada	.	USDA	P
PA Crypto	N		

Drinking ater Underground Storage anks A uatic o icity Chemical Micro iological Mold aste ater n a Accreditation not applica le
Not all certifications held y the la oratory are applica le to the results reported in the attached report.
Accreditation is only applica le to the test methods specified on each scope of accreditation held y Pace Analytical.

Company Name/Address:
Tetra Tech EMI - Houston, TX

1500 CityWest Boulevard
Suite 1000
Houston. TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to: Diana Eldam/Manuela Pastrano

Email To: manuela.pastrano@tetratech.com;diana.eldam

Project Description: DR Horton - (COR) Keller Crossing Phase II

City/State Collected:

Please Circle: PT MT CT ET

Phone: 832-251-5160

Client Project #

Lab Project # TETRAHTX-KELLER

Collected by (print): Janine Angevine

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1727103

E117

Acctnum: TETRAHTX
Template: T259305
Prelogin: P1097763
PM: 3564 - Chad A Upchurch
PB:

Shipped Via: FedEX Standard

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	DROCA, SV8270 8ozClr-NoPres	GROCA 40mlAmb/MeOH10ml/Syr	MRCRA8 8ozClr-NoPres	SV8081,SV8141,SV8151 8ozClr-NoPres	V8260 40mlAmb/MeOH10ml/Syr	Remarks	Sample # (lab only)
Area 13-Comp	Comp	SS	0-0.5	9/11/24	1245	3	X	X	X	X	X		01
Area 13-1-0.5	Grab	SS	0-0.5		1120							Hold Samples	02
Area 13-1-2		SS	1-2		1125								03
Area 13-2-0.5		SS	0-0.5		1135								04
Area 13-2-2		SS	1-2		1140								05
Area 13-3-0.5		SS	0-0.5		1155								06
Area 13-3-2		SS	1-2		1200								07
Area 13-4-0.5		SS	0-0.5		1210								08
Area 13-4-2		SS	1-2		1215								09
Area 13-5-0.5		SS	0-0.5		1235								10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: All discrete soil samples will be placed on hold for the same analyses at the lab, pending the results of the Composite Soil Samples.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: ___ UPS ___ FedEx ___ Courier _____

Tracking # 4102 9169 9107

Sample Receipt Checklist
COC Seal Present/Intact: ✓ NP ___ Y ___ N
COC Signed/Accurate: ✓ ___ Y ___ N
Bottles arrive intact: ✓ ___ Y ___ N
Correct bottles used: ✓ ___ Y ___ N
Sufficient volume sent: ✓ ___ Y ___ N
If Applicable
VOA Zero Headspace: ___ Y ___ N
Preservation Correct/Checked: ✓ ___ Y ___ N
RAD Screen <0.5 mR/hr: ___ Y ___ N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received:
	9/11/24	1500		1 (Yes) No / MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 12.9 °C Bottles Received: 33
				1.2+0.3=1.5
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
CONFIDENTIAL			Ei Dixon 17	9-12-24 0800

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

No reliance without separate reliance agreement.

Company Name/Address:
Tetra Tech EMI - Houston, TX

1500 CityWest Boulevard
Suite 1000
Houston, TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to:
Diana Eldam/Manuela Pastrano

Email To:
manuela.pastrano@tetratech.com;diana.eldam

Project Description:
DR Horton - (COR) Keller Crossing Phase II

City/State Collected:

Please Circle: PT MT CT ET

Phone: 832-251-5160

Client Project #

Lab Project #
TETRAHTX-KELLER

Collected by (print):
Janine Dragenert

Site/Facility ID #

P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	DROCA, SV8270 8ozClr-NoPres	GROCA 40mlAmb/MeOH10ml/Syr	MRCRA8 8ozClr-NoPres	SV8081,SV8141,SV8151 8ozClr-NoPres	V8260 40mlAmb/MeOH10ml/Syr					
Area 13-5-2	Grab	SS	1-2	9/11/24	1240	3										Hold sample
		SS														
		SS														
		SS														
		SS														
		SS														
		SS														
		SS														
		SS														
		SS														

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1277193

Table #

Acctnum: TETRAHTX
Template: T259305
Prelogin: P1097763
PM: 3564 - Chad A Upchurch
PB:

Shipped Via: FedEX Standard

Remarks | Sample # (lab only)

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: See page 1 remarks

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4102 9169 9107

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	9/11/24	1500		1
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
				1.2+0.3=1.5 33
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
			17	9-12-24 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

CONFIDENTIAL

No reliance without separate reliance agreement.

ANALYTICAL REPORT

September 25, 2024

Tetra Tech EMI - Houston, TX

Samp e e er roup: L1779350

Samp es ece ed: 09/19/2024

Project umber:

escr pt on: Horton - C e er Cross ng Phase II

eport To: ana E dam/Manue a Pastrano
1500 C t est ou e ard
Su te 1000
Houston, TX 77042

Ent re eport e e ed :

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

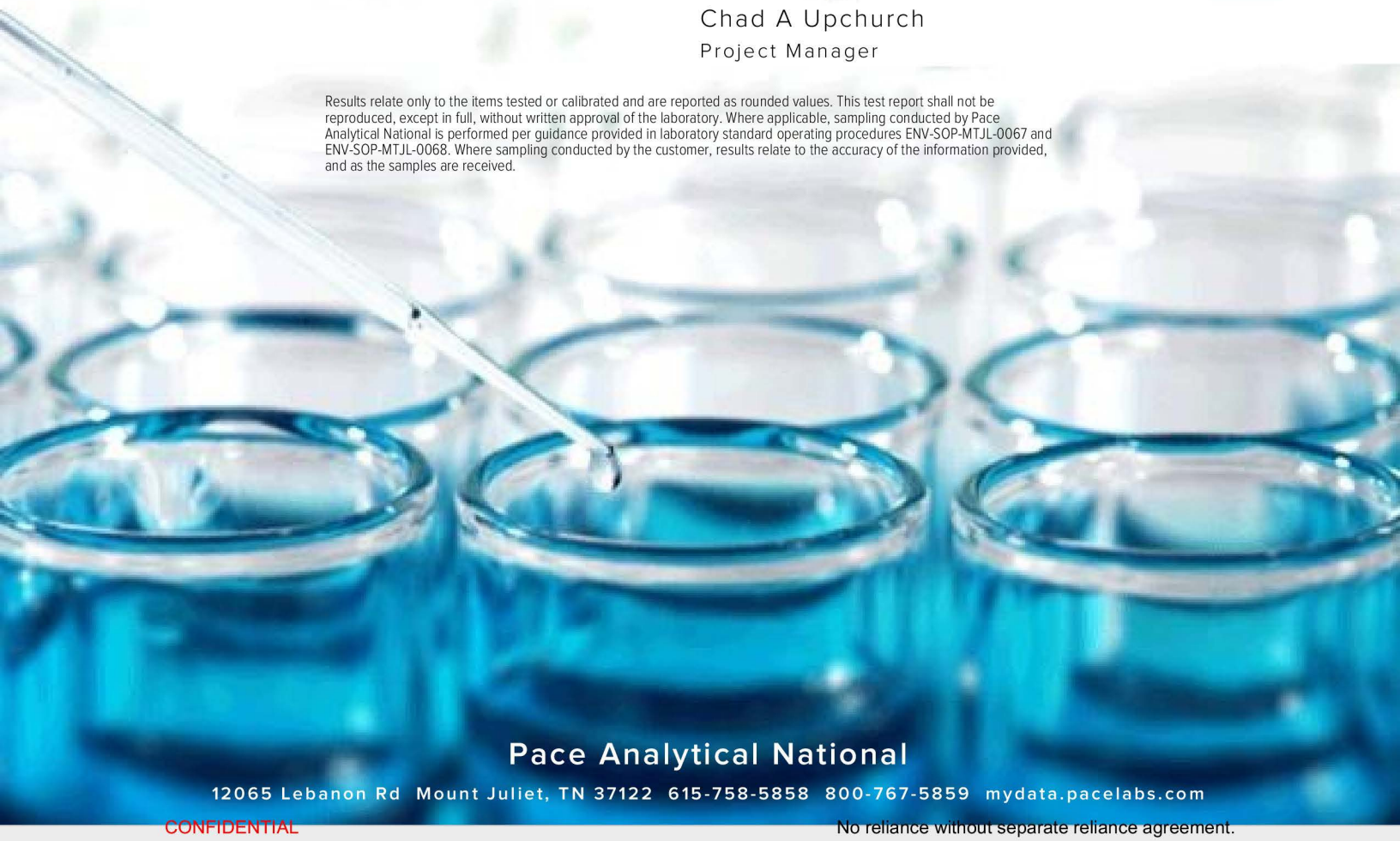


TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

AREA14-COMP L1779350-01 5

Qc: Quality Control Summary 10

Total Solids by Method 2540 G-2011 10

Mercury by Method 7471A 11

Metals (ICP) by Method 6010D 12

Volatile Organic Compounds (GC) by Method 8015 13

Volatile Organic Compounds (GC/MS) by Method 8260B 14

Semi-Volatile Organic Compounds (GC) by Method 8015 18

Chlorinated Acid Herbicides (GC) by Method 8151 19

OP Pesticides by Method 8141 21

Pesticides (GC) by Method 8081 23

Semi Volatile Organic Compounds (GC/MS) by Method 8270C 25

Gl: Glossary of Terms 30

Al: Accreditations & Locations 32

Sc: Sample Chain of Custody 33

A EA14-C MP L1779350-01 So d

Collected by: Janine Angenent
Collected date/time: 09/18/24 12:30
Received date/time: 09/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2366319	1	09/20/24 09:29	09/20/24 09:46	MT	Mt. Juliet, TN
Mercury by Method 7471A	WG2366424	1	09/20/24 14:09	09/21/24 10:13	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2366373	1	09/20/24 11:45	09/20/24 15:35	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG2366163	28.7	09/18/24 12:30	09/20/24 02:01	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2366558	1.15	09/18/24 12:30	09/20/24 16:17	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG2368266	2	09/24/24 08:07	09/24/24 23:12	KKS	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151	WG2365909	1	09/20/24 06:27	09/21/24 21:39	NWH	Mt. Juliet, TN
OP Pesticides by Method 8141	WG2365773	1	09/20/24 08:11	09/21/24 09:32	MEW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG2368272	1	09/24/24 09:33	09/24/24 15:51	MEW	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2367359	2	09/23/24 15:57	09/24/24 16:49	JRM	Mt. Juliet, TN

A samp e a uots ere rece ed at the correct temperature, n the proper conta ners, th the appropr ate preser at es, and th n method spec f ed ho d ng t mes, un ess ua f ed or notated th n the report here app cab e, a M L L and L L a ues reported for en ronmenta samp es ha e been corrected for the d ut on factor used n the ana s s A Method and atch ua t Contro are th n estab shed cr ter a e cept here addressed n th s case narrat e, a non-conformance form or proper ua f ed th n the samp e resu ts m d g ta s gnature be o , l aff rm to the best of m no edge, a prob ems/anoma es obser ed b the aborator as ha ng the potent a to affect the ua t of the data ha e been dent f ed b the aborator , and no nformat on or data ha e been no ng thhe d that ou d affect the ua t of the data



Chad A Upchurch
Project Manager

Tota So ds b Method 2540 -2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.8		1	09/20/2024 09:46	WG2366319

Mercur b Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0262	_	0.0190	0.0422	1	09/21/2024 10:13	WG2366424

Meta s ICP b Method 6010

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.92		0.546	2.11	1	09/20/2024 15:35	WG2366373
Barium	117		0.0899	0.527	1	09/20/2024 15:35	WG2366373
Cadmium	0.223	_	0.0497	0.527	1	09/20/2024 15:35	WG2366373
Chromium	17.2		0.140	1.05	1	09/20/2024 15:35	WG2366373
Lead	7.87		0.219	0.527	1	09/20/2024 15:35	WG2366373
Selenium	U		0.806	2.11	1	09/20/2024 15:35	WG2366373
Silver	U		0.134	1.05	1	09/20/2024 15:35	WG2366373

o at e rgan c Compounds C b Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	2.58	__	1.05	3.17	28.7	09/20/2024 02:01	WG2366163
(S) a,a,a-Trifluorotoluene(FID)	*99.3*			*77.0-120*		*09/20/2024 02:01*	WG2366163

o at e rgan c Compounds C/MS b Method 8260

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0463	0.0634	1.15	09/20/2024 16:17	WG2366558
Acrylonitrile	U		0.00458	0.0159	1.15	09/20/2024 16:17	WG2366558
Benzene	U		0.000592	0.00127	1.15	09/20/2024 16:17	WG2366558
Bromobenzene	U		0.00115	0.0159	1.15	09/20/2024 16:17	WG2366558
Bromodichloromethane	U		0.000920	0.00318	1.15	09/20/2024 16:17	WG2366558
Bromoform	U		0.00149	0.0318	1.15	09/20/2024 16:17	WG2366558
Bromomethane	U		0.00250	0.0159	1.15	09/20/2024 16:17	WG2366558
n-Butylbenzene	U		0.00666	0.0159	1.15	09/20/2024 16:17	WG2366558
sec-Butylbenzene	U		0.00365	0.0159	1.15	09/20/2024 16:17	WG2366558
tert-Butylbenzene	U		0.00247	0.00634	1.15	09/20/2024 16:17	WG2366558
Carbon tetrachloride	U		0.00114	0.00634	1.15	09/20/2024 16:17	WG2366558
Chlorobenzene	U		0.000267	0.00318	1.15	09/20/2024 16:17	WG2366558
Chlorodibromomethane	U		0.000776	0.00318	1.15	09/20/2024 16:17	WG2366558
Chloroethane	U		0.00216	0.00634	1.15	09/20/2024 16:17	WG2366558
Chloroform	U		0.00130	0.00318	1.15	09/20/2024 16:17	WG2366558
Chloromethane	U		0.00551	0.0159	1.15	09/20/2024 16:17	WG2366558
2-Chlorotoluene	U		0.00110	0.00318	1.15	09/20/2024 16:17	WG2366558
4-Chlorotoluene	U		0.000571	0.00634	1.15	09/20/2024 16:17	WG2366558
1,2-Dibromo-3-Chloropropane	U		0.00495	0.0318	1.15	09/20/2024 16:17	WG2366558
1,2-Dibromoethane	U		0.000822	0.00318	1.15	09/20/2024 16:17	WG2366558
Dibromomethane	U		0.000952	0.00634	1.15	09/20/2024 16:17	WG2366558
1,2-Dichlorobenzene	U		0.000539	0.00634	1.15	09/20/2024 16:17	WG2366558
1,3-Dichlorobenzene	U		0.000761	0.00634	1.15	09/20/2024 16:17	WG2366558
1,4-Dichlorobenzene	U		0.000888	0.00634	1.15	09/20/2024 16:17	WG2366558
Dichlorodifluoromethane	U		0.00204	0.00634	1.15	09/20/2024 16:17	WG2366558
1,1-Dichloroethane	U		0.000623	0.00318	1.15	09/20/2024 16:17	WG2366558

o at e rgan c Compounds C/MS b Method 8260

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000823	0.00318	1.15	09/20/2024 16:17	WG2366558
1,1-Dichloroethene	U		0.000769	0.00318	1.15	09/20/2024 16:17	WG2366558
cis-1,2-Dichloroethene	U		0.000931	0.00318	1.15	09/20/2024 16:17	WG2366558
trans-1,2-Dichloroethene	U		0.00132	0.00634	1.15	09/20/2024 16:17	WG2366558
1,2-Dichloropropane	U		0.00180	0.00634	1.15	09/20/2024 16:17	WG2366558
1,1-Dichloropropene	U		0.00103	0.00318	1.15	09/20/2024 16:17	WG2366558
1,3-Dichloropropane	U		0.000635	0.00634	1.15	09/20/2024 16:17	WG2366558
cis-1,3-Dichloropropene	U		0.000961	0.00318	1.15	09/20/2024 16:17	WG2366558
trans-1,3-Dichloropropene	U		0.00144	0.00634	1.15	09/20/2024 16:17	WG2366558
2,2-Dichloropropane	U		0.00175	0.00318	1.15	09/20/2024 16:17	WG2366558
Di-isopropyl ether	U		0.000521	0.00127	1.15	09/20/2024 16:17	WG2366558
Ethylbenzene	U		0.000935	0.00318	1.15	09/20/2024 16:17	WG2366558
Hexachloro-1,3-butadiene	U		0.00761	0.0318	1.15	09/20/2024 16:17	WG2366558
Isopropylbenzene	U		0.000539	0.00318	1.15	09/20/2024 16:17	WG2366558
p-Isopropyltoluene	U		0.00323	0.00634	1.15	09/20/2024 16:17	WG2366558
2-Butanone (MEK)	U		0.0805	0.127	1.15	09/20/2024 16:17	WG2366558
Methylene Chloride	U		0.00843	0.0318	1.15	09/20/2024 16:17	WG2366558
4-Methyl-2-pentanone (MIBK)	U		0.00289	0.0318	1.15	09/20/2024 16:17	WG2366558
Methyl tert-butyl ether	U		0.000444	0.00127	1.15	09/20/2024 16:17	WG2366558
Naphthalene	U		0.00619	0.0159	1.15	09/20/2024 16:17	WG2366558
n-Propylbenzene	U		0.00120	0.00634	1.15	09/20/2024 16:17	WG2366558
Styrene	U		0.000290	0.0159	1.15	09/20/2024 16:17	WG2366558
1,1,1,2-Tetrachloroethane	U		0.00120	0.00318	1.15	09/20/2024 16:17	WG2366558
1,1,2,2-Tetrachloroethane	U		0.000881	0.00318	1.15	09/20/2024 16:17	WG2366558
1,1,2-Trichlorotrifluoroethane	U	4	0.000956	0.00318	1.15	09/20/2024 16:17	WG2366558
Tetrachloroethene	U		0.00114	0.00318	1.15	09/20/2024 16:17	WG2366558
Toluene	U		0.00164	0.00634	1.15	09/20/2024 16:17	WG2366558
1,2,3-Trichlorobenzene	U		0.00930	0.0159	1.15	09/20/2024 16:17	WG2366558
1,2,4-Trichlorobenzene	U		0.00558	0.0159	1.15	09/20/2024 16:17	WG2366558
1,1,1-Trichloroethane	U		0.00117	0.00318	1.15	09/20/2024 16:17	WG2366558
1,1,2-Trichloroethane	U		0.000758	0.00318	1.15	09/20/2024 16:17	WG2366558
Trichloroethene	U		0.000741	0.00127	1.15	09/20/2024 16:17	WG2366558
Trichlorofluoromethane	U		0.00105	0.00318	1.15	09/20/2024 16:17	WG2366558
1,2,3-Trichloropropane	U		0.00205	0.0159	1.15	09/20/2024 16:17	WG2366558
1,2,4-Trimethylbenzene	U		0.00201	0.00634	1.15	09/20/2024 16:17	WG2366558
1,2,3-Trimethylbenzene	U		0.00201	0.00634	1.15	09/20/2024 16:17	WG2366558
1,3,5-Trimethylbenzene	U		0.00254	0.00634	1.15	09/20/2024 16:17	WG2366558
Vinyl chloride	U		0.00147	0.00318	1.15	09/20/2024 16:17	WG2366558
Xylenes, Total	U		0.00111	0.00825	1.15	09/20/2024 16:17	WG2366558
(S) Toluene-d8	*97.0*			*75.0-131*		*09/20/2024 16:17*	WG2366558
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/20/2024 16:17*	WG2366558
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/20/2024 16:17*	WG2366558

Sem - o at e rgan c Compounds C b Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	15.9		1.55	8.44	2	09/24/2024 23:12	WG2368266
(S) o-Terphenyl	*58.1*			*18.0-148*		*09/24/2024 23:12*	WG2368266

Ch or nated Ac d Herb c des C b Method 8151

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.00741	0.0738	1	09/21/2024 21:39	WG2365909
Dalapon	U		0.0119	0.0738	1	09/21/2024 21:39	WG2365909
2,4-DB	U		0.0313	0.0738	1	09/21/2024 21:39	WG2365909
Dicamba	U		0.0166	0.0738	1	09/21/2024 21:39	WG2365909
Dichloroprop	U		0.0258	0.0738	1	09/21/2024 21:39	WG2365909
Dinoseb	U		0.00735	0.0738	1	09/21/2024 21:39	WG2365909
MCPA	U		0.467	6.86	1	09/21/2024 21:39	WG2365909
MCPP	U		0.387	6.86	1	09/21/2024 21:39	WG2365909
2,4,5-T	U		0.00899	0.0738	1	09/21/2024 21:39	WG2365909
2,4,5-TP (Silvex)	U		0.0113	0.0738	1	09/21/2024 21:39	WG2365909
(S) 2,4-Dichlorophenyl Acetic Acid	*80.1*			*22.0-132*		*09/21/2024 21:39*	WG2365909

P Pest c des b Method 8141

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Azinphos-Methyl	U		0.0335	0.105	1	09/21/2024 09:32	WG2365773
Bolstar (Sulprofos)	U		0.0157	0.105	1	09/21/2024 09:32	WG2365773
Chlorpyrifos	U		0.0166	0.105	1	09/21/2024 09:32	WG2365773
Coumaphos	U		0.0256	0.105	1	09/21/2024 09:32	WG2365773
Demeton,-O and -S	U		0.00616	0.0738	1	09/21/2024 09:32	WG2365773
Diazinon	U		0.0237	0.105	1	09/21/2024 09:32	WG2365773
Dichlorvos	U		0.0316	0.105	1	09/21/2024 09:32	WG2365773
Dimethoate	U		0.0352	0.105	1	09/21/2024 09:32	WG2365773
Disulfoton	U		0.0268	0.105	1	09/21/2024 09:32	WG2365773
EPN	U		0.0291	0.105	1	09/21/2024 09:32	WG2365773
Ethoprop	U		0.0124	0.105	1	09/21/2024 09:32	WG2365773
Ethyl Parathion	U		0.0173	0.105	1	09/21/2024 09:32	WG2365773
Fensulfothion	U		0.0372	0.105	1	09/21/2024 09:32	WG2365773
Fenthion	U		0.0140	0.105	1	09/21/2024 09:32	WG2365773
Malathion	U		0.0189	0.105	1	09/21/2024 09:32	WG2365773
Merphos	U		0.0245	0.105	1	09/21/2024 09:32	WG2365773
Methyl parathion	U		0.0214	0.105	1	09/21/2024 09:32	WG2365773
Mevinphos	U		0.0243	0.105	1	09/21/2024 09:32	WG2365773
Naled	U		0.0506	0.105	1	09/21/2024 09:32	WG2365773
Phorate	U		0.0222	0.105	1	09/21/2024 09:32	WG2365773
Ronnel	U		0.0157	0.105	1	09/21/2024 09:32	WG2365773
Stirophos	U		0.0188	0.105	1	09/21/2024 09:32	WG2365773
Sulfotep	U		0.0104	0.105	1	09/21/2024 09:32	WG2365773
TEPP	U		0.166	1.05	1	09/21/2024 09:32	WG2365773
Tokuthion (Prothothiofos)	U		0.0158	0.105	1	09/21/2024 09:32	WG2365773
Trichloronate	U		0.0212	0.105	1	09/21/2024 09:32	WG2365773
(S) Triphenyl Phosphate	*90.9*			*36.0-121*		*09/21/2024 09:32*	WG2365773

Pest c des C b Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00397	0.0211	1	09/24/2024 15:51	WG2368272
Alpha BHC	U		0.00388	0.0211	1	09/24/2024 15:51	WG2368272
Beta BHC	U		0.00400	0.0211	1	09/24/2024 15:51	WG2368272
Delta BHC	U		0.00365	0.0211	1	09/24/2024 15:51	WG2368272
Gamma BHC	U		0.00363	0.0211	1	09/24/2024 15:51	WG2368272
4,4-DDD	U		0.00390	0.0211	1	09/24/2024 15:51	WG2368272
4,4-DDE	U		0.00386	0.0211	1	09/24/2024 15:51	WG2368272
4,4-DDT	U		0.00661	0.0211	1	09/24/2024 15:51	WG2368272
Dieldrin	U		0.00363	0.0211	1	09/24/2024 15:51	WG2368272

Pest c des C b Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Endosulfan I	U		0.00383	0.0211	1	09/24/2024 15:51	WG2368272
Endosulfan II	U		0.00353	0.0211	1	09/24/2024 15:51	WG2368272
Endosulfan sulfate	U		0.00384	0.0211	1	09/24/2024 15:51	WG2368272
Endrin	U		0.00369	0.0211	1	09/24/2024 15:51	WG2368272
Endrin aldehyde	U		0.00358	0.0211	1	09/24/2024 15:51	WG2368272
Endrin ketone	U		0.00750	0.0211	1	09/24/2024 15:51	WG2368272
Heptachlor	U		0.00452	0.0211	1	09/24/2024 15:51	WG2368272
Heptachlor epoxide	U		0.00358	0.0211	1	09/24/2024 15:51	WG2368272
Hexachlorobenzene	U		0.00365	0.0211	1	09/24/2024 15:51	WG2368272
Methoxychlor	U		0.00511	0.0211	1	09/24/2024 15:51	WG2368272
Chlordane	U		0.109	0.316	1	09/24/2024 15:51	WG2368272
Toxaphene	U		0.131	0.422	1	09/24/2024 15:51	WG2368272
(S) Decachlorobiphenyl	*76.3*			*10.0-135*		*09/24/2024 15:51*	WG2368272
(S) Tetrachloro-m-xylene	*82.8*			*10.0-139*		*09/24/2024 15:51*	WG2368272

Sem o at e rgan c Compounds C/MS b Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0114	0.0703	2	09/24/2024 16:49	WG2367359
Acenaphthylene	U		0.00990	0.0703	2	09/24/2024 16:49	WG2367359
Anthracene	U		0.0126	0.0703	2	09/24/2024 16:49	WG2367359
Benzidine	U		0.132	3.52	2	09/24/2024 16:49	WG2367359
Benzo(a)anthracene	U		0.0123	0.0703	2	09/24/2024 16:49	WG2367359
Benzo(b)fluoranthene	U		0.0131	0.0703	2	09/24/2024 16:49	WG2367359
Benzo(k)fluoranthene	U		0.0124	0.0703	2	09/24/2024 16:49	WG2367359
Benzo(g,h,i)perylene	U		0.0129	0.0703	2	09/24/2024 16:49	WG2367359
Benzo(a)pyrene	U		0.0131	0.0703	2	09/24/2024 16:49	WG2367359
Bis(2-chlorethoxy)methane	U		0.0211	0.703	2	09/24/2024 16:49	WG2367359
Bis(2-chloroethyl)ether	U		0.0232	0.703	2	09/24/2024 16:49	WG2367359
2,2-Oxybis(1-Chloropropane)	U		0.0304	0.703	2	09/24/2024 16:49	WG2367359
4-Bromophenyl-phenylether	U		0.0247	0.703	2	09/24/2024 16:49	WG2367359
2-Chloronaphthalene	U		0.0123	0.0703	2	09/24/2024 16:49	WG2367359
4-Chlorophenyl-phenylether	U		0.0245	0.703	2	09/24/2024 16:49	WG2367359
Chrysene	U		0.0139	0.0703	2	09/24/2024 16:49	WG2367359
Dibenz(a,h)anthracene	U		0.0195	0.0703	2	09/24/2024 16:49	WG2367359
3,3-Dichlorobenzidine	U		0.0260	0.703	2	09/24/2024 16:49	WG2367359
2,4-Dinitrotoluene	U		0.0202	0.703	2	09/24/2024 16:49	WG2367359
2,6-Dinitrotoluene	U		0.0230	0.703	2	09/24/2024 16:49	WG2367359
Fluoranthene	U		0.0127	0.0703	2	09/24/2024 16:49	WG2367359
Fluorene	U		0.0114	0.0703	2	09/24/2024 16:49	WG2367359
Hexachlorobenzene	U		0.0249	0.703	2	09/24/2024 16:49	WG2367359
Hexachloro-1,3-butadiene	U		0.0236	0.703	2	09/24/2024 16:49	WG2367359
Hexachlorocyclopentadiene	U		0.0369	0.703	2	09/24/2024 16:49	WG2367359
Hexachloroethane	U		0.0276	0.703	2	09/24/2024 16:49	WG2367359
Indeno(1,2,3-cd)pyrene	U		0.0198	0.0703	2	09/24/2024 16:49	WG2367359
Isophorone	U		0.0215	0.703	2	09/24/2024 16:49	WG2367359
Naphthalene	U		0.0176	0.0703	2	09/24/2024 16:49	WG2367359
Nitrobenzene	U		0.0245	0.703	2	09/24/2024 16:49	WG2367359
n-Nitrosodimethylamine	U		0.104	0.703	2	09/24/2024 16:49	WG2367359
n-Nitrosodiphenylamine	U		0.0532	0.703	2	09/24/2024 16:49	WG2367359
n-Nitrosodi-n-propylamine	U		0.0234	0.703	2	09/24/2024 16:49	WG2367359
Phenanthrene	U		0.0139	0.0703	2	09/24/2024 16:49	WG2367359
Benzylbutyl phthalate	U		0.0219	0.703	2	09/24/2024 16:49	WG2367359
Bis(2-ethylhexyl)phthalate	U		0.0890	0.703	2	09/24/2024 16:49	WG2367359
Di-n-butyl phthalate	U		0.0241	0.703	2	09/24/2024 16:49	WG2367359
Diethyl phthalate	U		0.0232	0.703	2	09/24/2024 16:49	WG2367359

Sem o at e rgan c Compounds C/MS b Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dimethyl phthalate	U		0.149	0.703	2	09/24/2024 16:49	WG2367359
Di-n-octyl phthalate	U		0.0475	0.703	2	09/24/2024 16:49	WG2367359
Pyrene	U		0.0137	0.0703	2	09/24/2024 16:49	WG2367359
1,2,4-Trichlorobenzene	U		0.0219	0.703	2	09/24/2024 16:49	WG2367359
4-Chloro-3-methylphenol	U		0.0228	0.703	2	09/24/2024 16:49	WG2367359
2-Chlorophenol	U		0.0232	0.703	2	09/24/2024 16:49	WG2367359
2,4-Dichlorophenol	U		0.0205	0.703	2	09/24/2024 16:49	WG2367359
2,4-Dimethylphenol	U		0.0184	0.703	2	09/24/2024 16:49	WG2367359
4,6-Dinitro-2-methylphenol	U		0.159	0.703	2	09/24/2024 16:49	WG2367359
2,4-Dinitrophenol	U		0.165	0.703	2	09/24/2024 16:49	WG2367359
2-Nitrophenol	U		0.0251	0.703	2	09/24/2024 16:49	WG2367359
4-Nitrophenol	U		0.0219	0.703	2	09/24/2024 16:49	WG2367359
Pentachlorophenol	U		0.0189	0.703	2	09/24/2024 16:49	WG2367359
Phenol	U		0.0283	0.703	2	09/24/2024 16:49	WG2367359
2,4,6-Trichlorophenol	U		0.0226	0.703	2	09/24/2024 16:49	WG2367359
(S) 2-Fluorophenol	*73.0*			*12.0-120*		*09/24/2024 16:49*	WG2367359
(S) Phenol-d5	*66.6*			*10.0-120*		*09/24/2024 16:49*	WG2367359
(S) Nitrobenzene-d5	*63.6*			*10.0-122*		*09/24/2024 16:49*	WG2367359
(S) 2-Fluorobiphenyl	*62.7*			*15.0-120*		*09/24/2024 16:49*	WG2367359
(S) 2,4,6-Tribromophenol	*67.3*			*10.0-127*		*09/24/2024 16:49*	WG2367359
(S) p-Terphenyl-d14	*73.8*			*10.0-120*		*09/24/2024 16:49*	WG2367359

Sample Narrative:

L1779350-01 WG2367359: Dilution due to matrix impact during extract concentration procedure.

Method an M

M 4122675-1 09/20/24 09:46

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1779381-01 r g na Samp e S up cate UP

S L1779381-01 09/20/24 09:46 UP 4122675-3 09/20/24 09:46

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.1	85.5	1	0.631		10

Laborator Contro Samp e LCS

LCS 4122675-2 09/20/24 09:46

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method an M

M 4122658-1 09/21/24 09:55

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laborator Contro Samp e LCS

LCS 4122658-2 09/21/24 09:58

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.519	104	80.0-120	

L1778742-06 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778742-06 09/21/24 10:00 MS 4122658-4 09/21/24 10:05 MS 4122658-5 09/21/24 10:08

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg				%	%		%			%	%
Mercury	0.744	0.0963	0.838	0.868	99.7	104	1	75.0-125			3.57	20

Method an M

M 4122461-1 09/20/24 15:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Lead	U		0.208	0.500
Selenium	U		0.764	2.00
Silver	U		0.127	1.00

Laborator Contro Samp e LCS

LCS 4122461-2 09/20/24 15:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	105	105	80.0-120	
Barium	100	109	109	80.0-120	
Cadmium	100	111	111	80.0-120	
Chromium	100	109	109	80.0-120	
Lead	100	105	105	80.0-120	
Selenium	100	107	107	80.0-120	
Silver	20.0	20.2	101	80.0-120	

L1776299-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776299-01 09/20/24 15:08 MS 4122461-5 09/20/24 15:13 MS 4122461-6 09/20/24 15:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	101	3.86	93.8	97.7	89.0	92.9	1	75.0-125			4.08	20
Barium	101	97.3	166	168	67.8	70.3	1	75.0-125	6	6	1.48	20
Cadmium	101	0.188	97.9	103	96.7	101	1	75.0-125			4.73	20
Chromium	101	9.42	102	105	91.1	95.0	1	75.0-125			3.76	20
Lead	101	11.9	105	109	92.2	96.5	1	75.0-125			4.00	20
Selenium	101	U	92.7	96.7	91.7	95.7	1	75.0-125			4.25	20
Silver	20.2	U	17.8	19.0	88.1	93.7	1	75.0-125			6.19	20

Method an M

M 4123046-2 09/20/24 01:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	2.00	_	0.830	2.50
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*77.0-120*

Laborator Contro Samp e LCS

LCS 4123046-1 09/19/24 23:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5.00	4.12	82.4	72.0-125	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

L1778548-03 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778548-03 09/20/24 08:20 MS 4123046-3 09/20/24 09:14 MS 4123046-4 09/20/24 09:39

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHG C5 - C12	172	10.9	154	142	83.1	75.9	25	10.0-141			8.46	29
(S) a,a,a-Trifluorotoluene(FID)					*106*	*106*		*77.0-120*				

Method an M

M 4122952-3 09/20/24 10:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method an M

M 4122952-3 09/20/24 10:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*94.1*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4122952-1 09/20/24 09:10 LCS 4122952-2 09/20/24 09:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.573	0.598	91.7	95.7	10.0-160			4.27	31
Acrylonitrile	0.625	0.613	0.615	98.1	98.4	45.0-153			0.326	22
Benzene	0.125	0.123	0.125	98.4	100	70.0-123			1.61	20
Bromobenzene	0.125	0.114	0.112	91.2	89.6	73.0-121			1.77	20
Bromodichloromethane	0.125	0.129	0.131	103	105	73.0-121			1.54	20

Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4122952-1 09/20/24 09:10 LCS 4122952-2 09/20/24 09:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.125	0.129	0.128	103	102	64.0-132			0.778	20
Bromomethane	0.125	0.114	0.118	91.2	94.4	56.0-147			3.45	20
n-Butylbenzene	0.125	0.0970	0.106	77.6	84.8	68.0-135			8.87	20
sec-Butylbenzene	0.125	0.102	0.104	81.6	83.2	74.0-130			1.94	20
tert-Butylbenzene	0.125	0.102	0.105	81.6	84.0	75.0-127			2.90	20
Carbon tetrachloride	0.125	0.144	0.150	115	120	66.0-128			4.08	20
Chlorobenzene	0.125	0.114	0.110	91.2	88.0	76.0-128			3.57	20
Chlorodibromomethane	0.125	0.119	0.122	95.2	97.6	74.0-127			2.49	20
Chloroethane	0.125	0.104	0.102	83.2	81.6	61.0-134			1.94	20
Chloroform	0.125	0.130	0.131	104	105	72.0-123			0.766	20
Chloromethane	0.125	0.108	0.113	86.4	90.4	51.0-138			4.52	20
2-Chlorotoluene	0.125	0.107	0.104	85.6	83.2	75.0-124			2.84	20
4-Chlorotoluene	0.125	0.104	0.105	83.2	84.0	75.0-124			0.957	20
1,2-Dibromo-3-Chloropropane	0.125	0.101	0.100	80.8	80.0	59.0-130			0.995	20
1,2-Dibromoethane	0.125	0.115	0.116	92.0	92.8	74.0-128			0.866	20
Dibromomethane	0.125	0.136	0.133	109	106	75.0-122			2.23	20
1,2-Dichlorobenzene	0.125	0.113	0.116	90.4	92.8	76.0-124			2.62	20
1,3-Dichlorobenzene	0.125	0.109	0.111	87.2	88.8	76.0-125			1.82	20
1,4-Dichlorobenzene	0.125	0.103	0.108	82.4	86.4	77.0-121			4.74	20
Dichlorodifluoromethane	0.125	0.111	0.119	88.8	95.2	43.0-156			6.96	20
1,1-Dichloroethane	0.125	0.133	0.134	106	107	70.0-127			0.749	20
1,2-Dichloroethane	0.125	0.127	0.131	102	105	65.0-131			3.10	20
1,1-Dichloroethene	0.125	0.144	0.149	115	119	65.0-131			3.41	20
cis-1,2-Dichloroethene	0.125	0.116	0.119	92.8	95.2	73.0-125			2.55	20
trans-1,2-Dichloroethene	0.125	0.123	0.135	98.4	108	71.0-125			9.30	20
1,2-Dichloropropane	0.125	0.126	0.129	101	103	74.0-125			2.35	20
1,1-Dichloropropene	0.125	0.149	0.150	119	120	73.0-125			0.669	20
1,3-Dichloropropane	0.125	0.120	0.116	96.0	92.8	80.0-125			3.39	20
cis-1,3-Dichloropropene	0.125	0.130	0.136	104	109	76.0-127			4.51	20
trans-1,3-Dichloropropene	0.125	0.121	0.119	96.8	95.2	73.0-127			1.67	20
2,2-Dichloropropane	0.125	0.127	0.127	102	102	59.0-135			0.000	20
Di-isopropyl ether	0.125	0.124	0.125	99.2	100	60.0-136			0.803	20
Ethylbenzene	0.125	0.114	0.119	91.2	95.2	74.0-126			4.29	20
Hexachloro-1,3-butadiene	0.125	0.144	0.156	115	125	57.0-150			8.00	20
Isopropylbenzene	0.125	0.114	0.115	91.2	92.0	72.0-127			0.873	20
p-Isopropyltoluene	0.125	0.102	0.108	81.6	86.4	72.0-133			5.71	20
2-Butanone (MEK)	0.625	0.505	0.499	80.8	79.8	30.0-160			1.20	24
Methylene Chloride	0.125	0.128	0.129	102	103	68.0-123			0.778	20
4-Methyl-2-pentanone (MIBK)	0.625	0.590	0.582	94.4	93.1	56.0-143			1.37	20
Methyl tert-butyl ether	0.125	0.127	0.125	102	100	66.0-132			1.59	20

Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4122952-1 09/20/24 09:10 LCS 4122952-2 09/20/24 09:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.125	0.0980	0.101	78.4	80.8	59.0-130			3.02	20
n-Propylbenzene	0.125	0.110	0.115	88.0	92.0	74.0-126			4.44	20
Styrene	0.125	0.106	0.103	84.8	82.4	72.0-127			2.87	20
1,1,1,2-Tetrachloroethane	0.125	0.114	0.114	91.2	91.2	74.0-129			0.000	20
1,1,2,2-Tetrachloroethane	0.125	0.101	0.0977	80.8	78.2	68.0-128			3.32	20
1,1,2-Trichlorotrifluoroethane	0.125	0.167	0.178	134	142	61.0-139		4	6.38	20
Tetrachloroethene	0.125	0.134	0.134	107	107	70.0-136			0.000	20
Toluene	0.125	0.113	0.113	90.4	90.4	75.0-121			0.000	20
1,2,3-Trichlorobenzene	0.125	0.121	0.127	96.8	102	59.0-139			4.84	20
1,2,4-Trichlorobenzene	0.125	0.121	0.131	96.8	105	62.0-137			7.94	20
1,1,1-Trichloroethane	0.125	0.141	0.147	113	118	69.0-126			4.17	20
1,1,2-Trichloroethane	0.125	0.113	0.117	90.4	93.6	78.0-123			3.48	20
Trichloroethene	0.125	0.137	0.147	110	118	76.0-126			7.04	20
Trichlorofluoromethane	0.125	0.133	0.139	106	111	61.0-142			4.41	20
1,2,3-Trichloropropane	0.125	0.117	0.109	93.6	87.2	67.0-129			7.08	20
1,2,4-Trimethylbenzene	0.125	0.0993	0.103	79.4	82.4	70.0-126			3.66	20
1,2,3-Trimethylbenzene	0.125	0.105	0.102	84.0	81.6	74.0-124			2.90	20
1,3,5-Trimethylbenzene	0.125	0.105	0.103	84.0	82.4	73.0-127			1.92	20
Vinyl chloride	0.125	0.120	0.132	96.0	106	63.0-134			9.52	20
Xylenes, Total	0.375	0.341	0.340	90.9	90.7	72.0-127			0.294	20
(S) Toluene-d8				*95.6*	*93.8*	*75.0-131*				
(S) 4-Bromofluorobenzene				*101*	*100*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*100*	*106*	*70.0-130*				

Method an M

M 4123782-1 09/24/24 13:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		0.733	4.00
(S) o-Terphenyl	*55.6*			*18.0-148*

Laborator Contro Samp e LCS

LCS 4123782-2 09/24/24 13:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C12-C22 Hydrocarbons	50.0	25.6	51.2	50.0-150	
(S) o-Terphenyl			*46.7*	*18.0-148*	

L1779902-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1779902-01 09/24/24 22:18 MS 4123782-3 09/24/24 22:32 MS 4123782-4 09/24/24 22:45

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C12-C22 Hydrocarbons	47.8	3.41	23.7	9.05	42.4	11.8	1	50.0-150	6	3 6	89.4	20
(S) o-Terphenyl					*32.8*	*17.1*		*18.0-148*		2		

Method an M

M 4123287-1 09/21/24 16:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2,4-D	U		0.00702	0.0700
Dalapon	U		0.0113	0.0700
2,4-DB	U		0.0297	0.0700
Dicamba	U		0.0157	0.0700
Dichloroprop	U		0.0245	0.0700
Dinoseb	U		0.00697	0.0700
MCPA	U		0.443	6.50
MCPP	U		0.367	6.50
2,4,5-T	U		0.00852	0.0700
2,4,5-TP (Silvex)	U		0.0107	0.0700
(S) 2,4-Dichlorophenyl Acetic Acid	*73.1*			*22.0-132*

Laborator Contro Samp e LCS

LCS 4123287-2 09/21/24 16:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
2,4-D	0.0833	0.0700	84.0	40.0-120	
Dalapon	0.0833	0.0720	86.4	15.0-120	
2,4-DB	0.0833	0.0604	72.5	25.0-143	
Dicamba	0.0833	0.0558	67.0	43.0-120	
Dichloroprop	0.0833	0.0579	69.5	32.0-129	
Dinoseb	0.0833	0.0190	22.8	10.0-120	
MCPA	8.33	8.15	97.8	31.0-121	
MCPP	8.33	4.54	54.5	28.0-133	
2,4,5-T	0.0833	0.0649	77.9	41.0-120	
2,4,5-TP (Silvex)	0.0833	0.0555	66.6	42.0-120	
(S) 2,4-Dichlorophenyl Acetic Acid			*65.9*	*22.0-132*	

L1778392-18 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778392-18 09/21/24 20:08 MS 4123287-3 09/21/24 20:20 MS 4123287-4 09/21/24 20:31

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4-D	0.167	U	0.194	0.217	116	128	1	10.0-160	P	P	11.1	24
Dalapon	0.167	U	0.125	0.123	75.3	72.7	1	10.0-121			2.28	27
2,4-DB	0.167	U	0.287	0.725	173	430	1	10.0-160	5 P	E 3 5 P	86.4	22

CONFIDENTIAL
No reliance without separate reliance agreement.

L1778392-18 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778392-18 09/21/24 20:08 MS 4123287-3 09/21/24 20:20 MS 4123287-4 09/21/24 20:31

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Dicamba	0.167	U	0.120	0.119	72.1	70.6	1	10.0-154			0.847	21
Dichloroprop	0.167	U	0.128	0.119	76.8	70.3	1	10.0-158			7.55	20
Dinoseb	0.167	U	0.122	0.116	73.1	68.9	1	10.0-120			4.76	40
MCPA	16.7	U	16.6	16.3	99.6	96.4	1	10.0-160		P	2.09	40
MCPP	16.7	U	10.8	11.0	65.1	65.2	1	10.0-160			1.30	40
2,4,5-T	0.167	U	0.124	0.120	74.5	71.1	1	10.0-157			3.49	20
2,4,5-TP (Silvex)	0.167	U	0.103	0.100	61.8	59.4	1	10.0-156			2.79	20
(S) 2,4-Dichlorophenyl Acetic Acid					*71.5*	*73.1*		*22.0-132*				

Method an M

M 4122767-1 09/21/24 00:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Azinphos-Methyl	U		0.0318	0.100
Bolstar (Sulprofos)	U		0.0149	0.100
Chlorpyrifos	U		0.0157	0.100
Coumaphos	U		0.0243	0.100
Demeton,-O and -S	U		0.00584	0.0700
Diazinon	U		0.0225	0.100
Dichlorvos	U		0.0300	0.100
Dimethoate	U		0.0334	0.100
Disulfoton	U		0.0254	0.100
EPN	U		0.0276	0.100
Ethoprop	U		0.0118	0.100
Ethyl Parathion	U		0.0164	0.100
Fensulfothion	U		0.0353	0.100
Fenthion	U		0.0133	0.100
Malathion	U		0.0179	0.100
Merphos	U		0.0232	0.100
Methyl parathion	U		0.0203	0.100
Mevinphos	U		0.0230	0.100
Naled	U		0.0480	0.100
Phorate	U		0.0210	0.100
Ronnel	U		0.0149	0.100
Stirophos	U		0.0178	0.100
Sulfotep	U		0.00986	0.100
TEPP	U		0.157	1.00
Tokuthion (Prothothiofos)	U		0.0150	0.100
Trichloronate	U		0.0201	0.100
(S) Triphenyl Phosphate	*91.3*			*36.0-121*

Laborator Contro Samp e LCS

LCS 4122767-2 09/21/24 01:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Azinphos-Methyl	0.333	0.296	88.9	58.0-125	
Bolstar (Sulprofos)	0.333	0.284	85.3	64.0-120	
Chlorpyrifos	0.333	0.302	90.7	62.0-120	
Coumaphos	0.333	0.306	91.9	60.0-120	
Demeton,-O and -S	0.167	0.148	88.6	59.0-120	
Diazinon	0.333	0.276	82.9	49.0-120	

Laborator Contro Samp e LCS

LCS 4122767-2 09/21/24 01:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dichlorvos	0.333	0.196	58.9	37.0-120	
Dimethoate	0.333	0.282	84.7	46.0-127	
Disulfoton	0.333	0.289	86.8	60.0-121	
EPN	0.333	0.282	84.7	60.0-121	
Ethoprop	0.333	0.296	88.9	59.0-120	
Ethyl Parathion	0.333	0.316	94.9	62.0-120	
Fensulfothion	0.333	0.274	82.3	58.0-123	
Fenthion	0.333	0.284	85.3	61.0-121	
Malathion	0.333	0.311	93.4	59.0-120	
Merphos	0.333	0.248	74.5	59.0-120	
Methyl parathion	0.333	0.286	85.9	63.0-120	
Mevinphos	0.333	0.234	70.3	50.0-120	
Naled	0.333	0.149	44.7	10.0-125	
Phorate	0.333	0.287	86.2	60.0-120	
Ronnel	0.333	0.282	84.7	62.0-120	
Stirophos	0.333	0.285	85.6	62.0-120	
Sulfotep	0.333	0.361	108	62.0-122	
TEPP	3.33	1.40	42.0	10.0-135	
Tokuthion (Prothothiofos)	0.333	0.291	87.4	63.0-120	
Trichloronate	0.333	0.307	92.2	62.0-120	
(S) Triphenyl Phosphate			*90.7*	*36.0-121*	

Method an M

M 4123878-1 09/24/24 14:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00376	0.0200
Alpha BHC	U		0.00368	0.0200
Beta BHC	U		0.00379	0.0200
Delta BHC	U		0.00346	0.0200
Gamma BHC	U		0.00344	0.0200
4,4-DDD	U		0.00370	0.0200
4,4-DDE	U		0.00366	0.0200
4,4-DDT	U		0.00627	0.0200
Dieldrin	U		0.00344	0.0200
Endosulfan I	U		0.00363	0.0200
Endosulfan II	U		0.00335	0.0200
Endosulfan sulfate	U		0.00364	0.0200
Endrin	U		0.00350	0.0200
Endrin aldehyde	U		0.00339	0.0200
Endrin ketone	U		0.00711	0.0200
Heptachlor	U		0.00428	0.0200
Heptachlor epoxide	U		0.00339	0.0200
Hexachlorobenzene	U		0.00346	0.0200
Methoxychlor	U		0.00484	0.0200
Chlordane	U		0.103	0.300
Toxaphene	U		0.124	0.400
(S) Decachlorobiphenyl	*87.7*			*10.0-135*
(S) Tetrachloro-m-xylene	*89.3*			*10.0-139*

Laborator Contro Samp e LCS

LCS 4123878-2 09/24/24 14:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0627	94.1	34.0-136	
Alpha BHC	0.0666	0.0620	93.1	34.0-139	
Beta BHC	0.0666	0.0599	89.9	34.0-133	
Delta BHC	0.0666	0.0507	76.1	34.0-135	
Gamma BHC	0.0666	0.0628	94.3	34.0-136	
4,4-DDD	0.0666	0.0644	96.7	33.0-141	
4,4-DDE	0.0666	0.0634	95.2	34.0-134	
4,4-DDT	0.0666	0.0631	94.7	30.0-143	
Dieldrin	0.0666	0.0639	95.9	35.0-137	
Endosulfan I	0.0666	0.0619	92.9	34.0-134	

Laborator Contro Samp e LCS

LCS 4123878-2 09/24/24 14:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	0.0666	0.0622	93.4	35.0-132	
Endosulfan sulfate	0.0666	0.0605	90.8	35.0-132	
Endrin	0.0666	0.0640	96.1	34.0-137	
Endrin aldehyde	0.0666	0.0602	90.4	23.0-121	
Endrin ketone	0.0666	0.0606	91.0	35.0-144	
Heptachlor	0.0666	0.0633	95.0	36.0-141	
Heptachlor epoxide	0.0666	0.0635	95.3	36.0-134	
Hexachlorobenzene	0.0666	0.0585	87.8	33.0-129	
Methoxychlor	0.0666	0.0614	92.2	28.0-150	
(S) Decachlorobiphenyl			*89.2*	*10.0-135*	
(S) Tetrachloro-m-xylene			*93.2*	*10.0-139*	

L1779430-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1779430-01 09/24/24 14:53 MS 4123878-3 09/24/24 15:02 MS 4123878-4 09/24/24 15:12

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0681	U	0.0539	0.0527	79.0	77.0	1	20.0-135			2.12	37
Alpha BHC	0.0681	U	0.0522	0.0539	76.6	78.7	1	27.0-140			3.10	35
Beta BHC	0.0681	U	0.0498	0.0496	73.2	72.5	1	23.0-141			0.413	37
Delta BHC	0.0681	U	0.0430	0.0433	63.0	63.2	1	21.0-138			0.715	35
Gamma BHC	0.0681	U	0.0531	0.0542	78.0	79.1	1	27.0-137			1.92	36
4,4-DDD	0.0681	U	0.0517	0.0510	75.9	74.5	1	15.0-152			1.40	39
4,4-DDE	0.0681	U	0.0550	0.0538	80.7	78.5	1	10.0-152			2.27	40
4,4-DDT	0.0681	U	0.0518	0.0518	76.0	75.7	1	10.0-151			0.000	40
Dieldrin	0.0681	U	0.0532	0.0540	78.1	78.8	1	17.0-145			1.34	37
Endosulfan I	0.0681	U	0.0534	0.0544	78.4	79.4	1	20.0-137			1.72	36
Endosulfan II	0.0681	U	0.0507	0.0499	74.4	73.0	1	15.0-141			1.43	37
Endosulfan sulfate	0.0681	U	0.0493	0.0479	72.4	70.0	1	15.0-143			2.96	38
Endrin	0.0681	U	0.0511	0.0521	75.0	76.1	1	19.0-143			1.99	37
Endrin aldehyde	0.0681	U	0.0492	0.0499	72.2	73.0	1	10.0-139			1.45	40
Endrin ketone	0.0681	U	0.0468	0.0477	68.6	69.7	1	17.0-149			1.96	38
Heptachlor	0.0681	U	0.0557	0.0563	81.7	82.3	1	22.0-138			1.10	37
Heptachlor epoxide	0.0681	U	0.0508	0.0511	74.5	74.6	1	22.0-138			0.605	36
Hexachlorobenzene	0.0681	U	0.0515	0.0526	75.6	76.9	1	25.0-126			2.17	35
Methoxychlor	0.0681	U	0.0547	0.0526	80.2	76.9	1	10.0-159			3.83	40
(S) Decachlorobiphenyl					*66.7*	*74.2*		*10.0-135*				
(S) Tetrachloro-m-xylene					*70.9*	*80.2*		*10.0-139*				

Method an M

M 4123820-2 09/24/24 10:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00539	0.0333
Acenaphthylene	U		0.00469	0.0333
Anthracene	U		0.00593	0.0333
Benzidine	U		0.0626	1.67
Benzo(a)anthracene	U		0.00587	0.0333
Benzo(b)fluoranthene	U		0.00621	0.0333
Benzo(k)fluoranthene	U		0.00592	0.0333
Benzo(g,h,i)perylene	U		0.00609	0.0333
Benzo(a)pyrene	U		0.00619	0.0333
Bis(2-chlorethoxy)methane	U		0.0100	0.333
Bis(2-chloroethyl)ether	U		0.0110	0.333
2,2-Oxybis(1-Chloropropane)	U		0.0144	0.333
4-Bromophenyl-phenylether	U		0.0117	0.333
2-Chloronaphthalene	U		0.00585	0.0333
4-Chlorophenyl-phenylether	U		0.0116	0.333
Chrysene	U		0.00662	0.0333
Dibenz(a,h)anthracene	U		0.00923	0.0333
3,3-Dichlorobenzidine	U		0.0123	0.333
2,4-Dinitrotoluene	U		0.00955	0.333
2,6-Dinitrotoluene	U		0.0109	0.333
Fluoranthene	U		0.00601	0.0333
Fluorene	U		0.00542	0.0333
Hexachlorobenzene	U		0.0118	0.333
Hexachloro-1,3-butadiene	U		0.0112	0.333
Hexachlorocyclopentadiene	U		0.0175	0.333
Hexachloroethane	U		0.0131	0.333
Indeno(1,2,3-cd)pyrene	U		0.00941	0.0333
Isophorone	U		0.0102	0.333
Naphthalene	U		0.00836	0.0333
Nitrobenzene	U		0.0116	0.333
n-Nitrosodimethylamine	U		0.0494	0.333
n-Nitrosodiphenylamine	U		0.0252	0.333
n-Nitrosodi-n-propylamine	U		0.0111	0.333
Phenanthrene	U		0.00661	0.0333
Benzylbutyl phthalate	U		0.0104	0.333
Bis(2-ethylhexyl)phthalate	U		0.0422	0.333
Di-n-butyl phthalate	U		0.0114	0.333
Diethyl phthalate	U		0.0110	0.333
Dimethyl phthalate	U		0.0706	0.333
Di-n-octyl phthalate	U		0.0225	0.333

Method an M

M 4123820-2 09/24/24 10:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.00648	0.0333
1,2,4-Trichlorobenzene	U		0.0104	0.333
4-Chloro-3-methylphenol	U		0.0108	0.333
2-Chlorophenol	U		0.0110	0.333
2,4-Dichlorophenol	U		0.00970	0.333
2,4-Dimethylphenol	U		0.00870	0.333
4,6-Dinitro-2-methylphenol	U		0.0755	0.333
2,4-Dinitrophenol	U		0.0779	0.333
2-Nitrophenol	U		0.0119	0.333
4-Nitrophenol	U		0.0104	0.333
Pentachlorophenol	U		0.00896	0.333
Phenol	U		0.0134	0.333
2,4,6-Trichlorophenol	U		0.0107	0.333
(S) 2-Fluorophenol	*75.7*			*12.0-120*
(S) Phenol-d5	*67.1*			*10.0-120*
(S) Nitrobenzene-d5	*66.4*			*10.0-122*
(S) 2-Fluorobiphenyl	*66.1*			*15.0-120*
(S) 2,4,6-Tribromophenol	*61.0*			*10.0-127*
(S) p-Terphenyl-d14	*82.0*			*10.0-120*

Laborator Contro Samp e LCS

LCS 4123820-1 09/24/24 10:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.428	64.3	38.0-120	
Acenaphthylene	0.666	0.432	64.9	40.0-120	
Anthracene	0.666	0.497	74.6	42.0-120	
Benzidine	1.33	0.595	44.7	10.0-120	
Benzo(a)anthracene	0.666	0.524	78.7	44.0-120	
Benzo(b)fluoranthene	0.666	0.528	79.3	43.0-120	
Benzo(k)fluoranthene	0.666	0.546	82.0	44.0-120	
Benzo(g,h,i)perylene	0.666	0.491	73.7	43.0-120	
Benzo(a)pyrene	0.666	0.549	82.4	45.0-120	
Bis(2-chlorethoxy)methane	0.666	0.372	55.9	20.0-120	
Bis(2-chloroethyl)ether	0.666	0.384	57.7	16.0-120	
2,2-Oxybis(1-Chloropropane)	0.666	0.393	59.0	23.0-120	
4-Bromophenyl-phenylether	0.666	0.486	73.0	40.0-120	
2-Chloronaphthalene	0.666	0.412	61.9	35.0-120	

Laborator Contro Samp e LCS

LCS 4123820-1 09/24/24 10:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Chlorophenyl-phenylether	0.666	0.448	67.3	40.0-120	
Chrysene	0.666	0.531	79.7	43.0-120	
Dibenz(a,h)anthracene	0.666	0.533	80.0	44.0-120	
3,3-Dichlorobenzidine	1.33	0.991	74.5	28.0-120	
2,4-Dinitrotoluene	0.666	0.547	82.1	45.0-120	
2,6-Dinitrotoluene	0.666	0.505	75.8	42.0-120	
Fluoranthene	0.666	0.528	79.3	44.0-120	
Fluorene	0.666	0.470	70.6	41.0-120	
Hexachlorobenzene	0.666	0.468	70.3	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.344	51.7	15.0-120	
Hexachlorocyclopentadiene	0.666	0.235	35.3	15.0-120	
Hexachloroethane	0.666	0.379	56.9	17.0-120	
Indeno(1,2,3-cd)pyrene	0.666	0.498	74.8	45.0-120	
Isophorone	0.666	0.358	53.8	23.0-120	
Naphthalene	0.666	0.338	50.8	18.0-120	
Nitrobenzene	0.666	0.378	56.8	17.0-120	
n-Nitrosodimethylamine	0.666	0.493	74.0	10.0-125	
n-Nitrosodiphenylamine	0.666	0.488	73.3	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.419	62.9	26.0-120	
Phenanthrene	0.666	0.496	74.5	42.0-120	
Benzylbutyl phthalate	0.666	0.591	88.7	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.582	87.4	41.0-120	
Di-n-butyl phthalate	0.666	0.551	82.7	43.0-120	
Diethyl phthalate	0.666	0.497	74.6	43.0-120	
Dimethyl phthalate	0.666	0.483	72.5	43.0-120	
Di-n-octyl phthalate	0.666	0.578	86.8	40.0-120	
Pyrene	0.666	0.528	79.3	41.0-120	
1,2,4-Trichlorobenzene	0.666	0.339	50.9	17.0-120	
4-Chloro-3-methylphenol	0.666	0.400	60.1	28.0-120	
2-Chlorophenol	0.666	0.417	62.6	28.0-120	
2,4-Dichlorophenol	0.666	0.395	59.3	25.0-120	
2,4-Dimethylphenol	0.666	0.367	55.1	15.0-120	
4,6-Dinitro-2-methylphenol	0.666	0.645	96.8	16.0-120	
2,4-Dinitrophenol	0.666	0.552	82.9	10.0-120	
2-Nitrophenol	0.666	0.418	62.8	20.0-120	
4-Nitrophenol	0.666	0.549	82.4	27.0-120	
Pentachlorophenol	0.666	0.441	66.2	29.0-120	
Phenol	0.666	0.431	64.7	28.0-120	
2,4,6-Trichlorophenol	0.666	0.426	64.0	37.0-120	
(S) 2-Fluorophenol			*70.0*	*12.0-120*	

Laborator Contro Samp e LCS

LCS 4123820-1 09/24/24 10:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) Phenol-d5			*64.6*	*10.0-120*	
(S) Nitrobenzene-d5			*52.3*	*10.0-122*	
(S) 2-Fluorobiphenyl			*62.8*	*15.0-120*	
(S) 2,4,6-Tribromophenol			*71.9*	*10.0-127*	
(S) p-Terphenyl-d14			*79.0*	*10.0-120*	

L1778896-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778896-01 09/24/24 13:57 MS 4123820-3 09/24/24 14:18 MS 4123820-4 09/24/24 14:40

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.699	U	0.554	0.559	79.3	80.7	50	18.0-120			0.763	32
Acenaphthylene	0.699	U	0.561	0.564	80.2	81.4	50	25.0-120			0.567	32
Anthracene	0.699	U	0.626	0.624	89.5	90.2	50	22.0-120			0.170	29
Benzidine	1.40	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	40
Benzo(a)anthracene	0.699	0.534	1.00	0.896	67.0	52.3	50	25.0-120			11.2	29
Benzo(b)fluoranthene	0.699	0.814	1.32	1.23	72.0	60.4	50	19.0-122			6.67	31
Benzo(k)fluoranthene	0.699	U	0.826	0.807	118	117	50	23.0-120			2.34	30
Benzo(g,h,i)perylene	0.699	0.413	0.811	0.696	57.0	40.8	50	10.0-120			15.4	33
Benzo(a)pyrene	0.699	0.603	1.12	1.04	73.3	63.0	50	24.0-120			7.00	30
Bis(2-chlorethoxy)methane	0.699	U	0.563	0.579	80.5	83.6	50	10.0-120			2.79	34
Bis(2-chloroethyl)ether	0.699	U	0.592	0.610	84.7	88.0	50	10.0-120			3.01	40
2,2-Oxybis(1-Chloropropane)	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	40
4-Bromophenyl-phenylether	0.699	U	U	U	0.000	0.000	50	27.0-120	6	6	0.000	30
2-Chloronaphthalene	0.699	U	0.557	0.543	79.6	78.4	50	20.0-120			2.51	32
4-Chlorophenyl-phenylether	0.699	U	U	U	0.000	0.000	50	24.0-120	6	6	0.000	29
Chrysene	0.699	0.428	1.06	0.965	90.7	77.6	50	21.0-120			9.53	29
Dibenz(a,h)anthracene	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	32
3,3-Dichlorobenzidine	1.40	U	0.987	1.06	70.4	76.9	50	10.0-120			7.36	34
2,4-Dinitrotoluene	0.699	U	U	0.553	0.000	79.9	50	30.0-120	6	3	200	31
2,6-Dinitrotoluene	0.699	U	U	U	0.000	0.000	50	25.0-120	6	6	0.000	31
Fluoranthene	0.699	1.05	1.25	1.08	29.5	5.21	50	18.0-126		6	14.5	32
Fluorene	0.699	U	0.574	0.619	82.1	89.4	50	25.0-120			7.66	30
Hexachlorobenzene	0.699	U	U	U	0.000	0.000	50	27.0-120	6	6	0.000	28
Hexachloro-1,3-butadiene	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	38
Hexachlorocyclopentadiene	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	40
Hexachloroethane	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	40
Indeno(1,2,3-cd)pyrene	0.699	U	0.737	0.646	105	93.3	50	10.0-120			13.2	32
Isophorone	0.699	U	U	0.546	0.000	78.8	50	13.0-120	6	3	200	34

CONFIDENTIAL
No reliance without separate reliance agreement.

L1778896-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778896-01 09/24/24 13:57 MS 4123820-3 09/24/24 14:18 MS 4123820-4 09/24/24 14:40

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg				%	%		%			%	%
Naphthalene	0.699	U	0.544	0.531	77.8	76.7	50	10.0-120			2.37	35
Nitrobenzene	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	36
n-Nitrosodimethylamine	0.699	U	U	U	0.000	0.000	50	10.0-127	6	6	0.000	40
n-Nitrosodiphenylamine	0.699	U	U	U	0.000	0.000	50	17.0-120	6	6	0.000	29
n-Nitrosodi-n-propylamine	0.699	U	0.622	U	89.1	0.000	50	10.0-120		3 6	200	37
Phenanthrene	0.699	0.352	0.724	0.665	104	96.0	50	17.0-120			8.56	31
Benzylbutyl phthalate	0.699	U	0.675	0.814	96.7	117	50	23.0-120			18.5	30
Bis(2-ethylhexyl)phthalate	0.699	U	U	U	0.000	0.000	50	17.0-126	6	6	0.000	30
Di-n-butyl phthalate	0.699	U	0.606	0.663	86.8	95.7	50	30.0-120			8.87	29
Diethyl phthalate	0.699	U	0.584	0.669	0.000	96.6	50	26.0-120	6	3	200	28
Dimethyl phthalate	0.699	U	U	U	81.9	81.4	50	25.0-120			1.50	29
Di-n-octyl phthalate	0.699	U	U	U	0.000	0.000	50	21.0-123	6	6	0.000	29
Pyrene	0.699	0.981	1.26	1.06	40.4	11.7	50	16.0-121		6	17.4	32
1,2,4-Trichlorobenzene	0.699	U	0.570	U	81.6	0.000	50	12.0-120		3 6	200	37
4-Chloro-3-methylphenol	0.699	U	0.596	0.593	85.3	85.6	50	15.0-120			0.536	30
2-Chlorophenol	0.699	U	U	U	0.000	0.000	50	15.0-120	6	6	0.000	37
2,4-Dichlorophenol	0.699	U	0.562	0.568	80.4	82.1	50	20.0-120			1.13	31
2,4-Dimethylphenol	0.699	U	0.559	0.563	79.9	81.3	50	10.0-120			0.758	33
4,6-Dinitro-2-methylphenol	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	39
2,4-Dinitrophenol	0.699	U	U	U	0.000	0.000	50	10.0-121	6	6	0.000	40
2-Nitrophenol	0.699	U	0.639	U	91.5	0.000	50	12.0-120		3 6	200	39
4-Nitrophenol	0.699	U	U	U	0.000	0.000	50	10.0-137	6	6	0.000	32
Pentachlorophenol	0.699	U	U	U	0.000	0.000	50	10.0-160	6	6	0.000	31
Phenol	0.699	U	U	U	0.000	0.000	50	12.0-120	6	6	0.000	38
2,4,6-Trichlorophenol	0.699	U	U	U	0.000	0.000	50	19.0-120	6	6	0.000	32
(S) 2-Fluorophenol					*82.1*	*85.6*		*12.0-120*	7	7		
(S) Phenol-d5					*81.5*	*77.3*		*10.0-120*	7	7		
(S) Nitrobenzene-d5					*82.7*	*86.2*		*10.0-122*	7	7		
(S) 2-Fluorobiphenyl					*69.6*	*78.2*		*15.0-120*	7	7		
(S) 2,4,6-Tribromophenol					*61.2*	*65.6*		*10.0-127*	7	7		
(S) p-Terphenyl-d14					*88.4*	*92.9*		*10.0-120*	7	7		

Sample Narrative:

OS: Dilution due to matrix impact during extract concentration procedure.

u de to ead ng and Understand ng our Laborator eport

The nformat on be o s des gned to better e p a n the ar ous terms used n our report of ana t ca resu ts from the Laborator Th s s not ntended as a comprehens e e p anat on, and f ou ha e add t ona uest ons p ease contact our project representat e

esu ts sc a mer - Informat on that ma be pro ded b the customer, and conta ned th n th s report, nc ude Perm t L m ts, Project ame, Samp e I , Samp e Matr , Samp e Preser at on, e d an s, e d Sp es, e d up cates, n-S te ata, Samp ng Co ect on ates/T mes, and Samp ng Locat on esu ts re ate to the accurac of th s nformat on pro ded, and as the samp es are rece ed

Abbre at ons and ef n t ons

dr	esu ts are reported based on the dr e ght of the samp e th s on be present on a dr report bas s for so s
M L	Method etect on L m t
M L dr	Method etect on L m t
L	eported etect on L m t
L dr	eported etect on L m t
ec	eco er
P	e at e Percent fference
S	Samp e e er roup
S	Surrogate Surrogate Standard - Ana tes added to e er b an , samp e, Laborator Contro Samp e/ up cate and Matr Sp e/ up cate used to e a uate ana t ca eff c enc b measur ng reco er Surrogates are not e pected to be detected n a en ronmenta med a
U	ot detected at the eport ng L m t or M L here app cab e
Ana te	The name of the part cu ar compound or ana s s performed Some Ana ses and Methods ha e mu t p e ana tes reported
ut on	If the samp e matr conta ns an nterfer ng mater a , the samp e preparat on o ume or e ght a ues d ffer from the standard, or f concentrat ons of ana tes n the samp e are h gher than the h ghest m t of concentrat on that the aborator can accurate report, the samp e ma be d uted for ana s s If a a ue d fferent than 1 s used n th s f e d, the resu t reported has a read been corrected for th s factor
L m ts	These are the target reco er ranges or d fference a ue that the aborator has h stor ca determ ned as norma for the method and ana te be ng reported Successfu C Samp e ana s s target a ana tes reco ered or dup cated th n these ranges
r g na Samp e	The non-sp ed samp e n the prep batch used to determ ne the e at e Percent fference P from a ua t contro samp e The r g na Samp e ma not be nc uded th n the reported S
ua f er	Th s co umn pro des a etter and/or number des gnat on that corresponds to add t ona nformat on concern ng the resu t reported If a ua f er s present, a def n t on per ua f er s pro ded th n the ossar and ef n t ons page and potent a a d scuss on of poss b e mp cat ons of the ua f er n the Case arrat e f app cab e
esu t	The actua ana t ca f na resu t corrected for an samp e spec f c character st cs reported for our samp e If there as no measurab e resu t returned for a spec f c ana te, the resu t n th s co umn ma state ot etected or L e o etectab e Le e s The nformat on n the resu ts co umn shou d a a s be accompan ed b e ther an M L Method etect on L m t or L eport ng etect on L m t that def nes the o est a ue that the aborator cou d detect or report for th s ana te
Uncerta nt ad ochem str	Conf dence e e of 2 s gma
Case arrat e Cn	A br ef d scuss on about the nc uded samp e resu ts, nc ud ng a d scuss on of an non-conformances to protoco obser ed e ther at samp e rece pt b the aborator from the f e d or dur ng the ana t ca process If present, there be a sect on n the Case arrat e to d scuss the mean ng of an data ua f ers used n the report
ua t Contro Summar c	Th s sect on of the report nc udes the resu ts of the aborator ua t contro ana ses re u red b procedure or ana t ca methods to ass st n e a uat ng the a d t of the resu ts reported for our samp es These ana ses are not be ng performed on our samp es t p ca , but on aborator generated mater a
Samp e Cha n of Custod Sc	Th s s the document created n the f e d hen our samp es ere n t a co ected Th s s used to er f the t me and date of co ect on, the person co ect ng the samp es, and the ana ses that the aborator s re uested to perform Th s cha n of custod a so documents a persons e c ud ng commerc a sh ppers that ha e had contro or possess on of the samp es from the t me of co ect on unt de er to the aborator for ana s s
Samp e esu ts Sr	Th s sect on of our report pro de the resu ts of a test ng performed on our samp es These resu ts are pro ded b samp e I and are separated b the ana ses performed on each samp e The header ne of each ana s s sect on for each samp e pro de the name and method number for the ana s s reported
Samp e Summar Ss	Th s sect on of the Ana t ca eport def nes the spec f c ana ses performed for each samp e I , nc ud ng the dates and t mes of preparat on and/or ana s s

ua f er escr pt on

	The same ana te s found n the assoc ated b an
E	The ana te concentrat on e ceeds the upper m t of the ca brat on range of the nstrument estab shed b the n t a ca brat on ICAL
	The dent f cat on of the ana te s acceptab e the reported a ue s an est mate
2	Surrogate reco er m ts ha e been e ceeded a ues are outs de o er contro m ts
3	The assoc ated batch C as outs de the estab shed ua t contro range for prec s on
4	The assoc ated batch C as outs de the estab shed ua t contro range for accurac
5	The samp e matr nterfered th the ab t to ma e an accurate determ nat on sp e a ue s h gh
6	The samp e matr nterfered th the ab t to ma e an accurate determ nat on sp e a ue s o
7	Surrogate reco er cannot be used for contro m t e a uat on due to d ut on

ua f er	escr pt on
P	P bet een the pr mar and conf rmator ana s s e ceeded 40

ACC E ITATI S L CATI S

Pace Ana t ca at ona 12065 Lebanon d Mount u et, T 37122

Ala ama		Ne raska	N OS
Alaska		Nevada	N
Ari ona	A	Ne ampshire	
Arkansas		Ne ersey N LAP	N
California		Ne Me ico	N
Colorado	N	Ne ork	
Connecticut	P	North Carolina	nv
lorida		North Carolina	D
eorgia	N LAP	North Carolina	
eorgia		North Dakota	R
daho	N	Ohio AP	CL
llinois		Oklahoma	
ndiana	C N	Oregon	N
o a		Pennsylvania	
ansas		Rhode sland	LAO
entucky		South Carolina	
entucky		South Dakota	n a
Louisiana	A	ennessee	
Louisiana	LA	e as	
Maine	N	e as	LAB
Maryland		Utah	N
Massachusetts	M N	ermont	
Michigan		irginia	
Minnesota		ashington	C
Mississippi	N	est irginia	
Missouri		isconsin	
Montana	C R	yoming	A LA
A LA SO	.	A A LAP LLC MLAP	
A LA SO	.	DOD	.
Canada	.	USDA	P
PA Crypto	N		

Drinking ater Underground Storage anks A uatic o icity Chemical Micro iological Mold aste ater n a Accreditation not applica le
Not all certifications held y the la oratory are applica le to the results reported in the attached report.
Accreditation is only applica le to the test methods specified on each scope of accreditation held y Pace Analytical.

Company Name/Address:
Tetra Tech EMI - Houston, TX

1500 CityWest Boulevard
Suite 1000
Houston, TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to:
Diana Eldam/Manuela Pastrano

Email To:
manuela.pastrano@tetratech.com;diana.eldam

Project Description:
DR Horton - (COR) Keller Crossing Phase II

City/State Collected:

Please Circle: PT MT CT ET

Phone: 832-251-5160

Client Project #

Lab Project #
TETRAHTX-KELLER

Collected by (print):
Janine Angwin

Site/Facility ID #

P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
✓ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

DROCA, SV8270 8ozCr-NoPres
GROCA 40mlAmb/MeOH10ml/Syr
MRCRA8 8ozCr-NoPres
SV8081,SV8141,SV8151 8ozCr-NoPres
V8260 40mlAmb/MeOH10ml/Syr

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	DROCA	GROCA	MRCRA8	SV8081	V8260	Remarks	Sample # (lab only)
Area 14 - Comp	Comp	SS	0-0.5	9/18/24	1230	3	X	X	X	X	X		-01
Area 14-1-0.5	Grab	SS	0-0.5		1110							Hold sample	-02
Area 14-1-2		SS	1-2		1115								-03
Area 14-2-0.5		SS	0-0.5		1125								-04
Area 14-2-2		SS	1-2		1130								-05
Area 14-3-0.5			0-0.5		1145								-06
Area 14-3-2			1-2		1150								-07
Area 14-4-0.5			0-0.5		1200								-08
Area 14-4-2			1-2		1205								-09
Area 14-5-0.5			0-0.5		1220								-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: All discrete soil samples will be placed on hold for the same analyses of the lab, pending the results of the composite soil sample

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 715503020658

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

(12065 Lebanon Rd Mount Juliet, TN 37122)
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # B240
LCC79350

Acctnum: TETRAHTX
Template: T259305
Prelogin: P1097763
PM: 3564 - Chad A Upchurch
PB:

Shipped Via: FedEX Standard

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y / N
COC Signed/Accurate:		Y / N
Bottles arrive intact:		Y / N
Correct bottles used:		Y / N
Sufficient volume sent:		Y / N
If Applicable		
VOA Zero Headspace:		Y / N
Preservation Correct/Checked:		Y / N
RAD Screen: <0.5 mR/hr:		Y / N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No / HCL / MeoH / TBR	If preservation required by Login: Date/Time
	9/18/24	1445			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 09.03:1.2°C TUB9 Bottles Received: 33	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 09.19.24 Time: 0830	Hold: Condition: NCF / OK
			CR aberD		

CONFIDENTIAL

No reliance without separate reliance agreement.

Company Name/Address:
Tetra Tech EMI - Houston, TX

1500 CityWest Boulevard
Suite 1000
Houston, TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to:
Diana Eldam/Manuela Pastrano

Email To:
manuela.pastrano@tetratech.com;diana.eldam

Project Description:
DR Horton - (COR) Keller Crossing Phase II

City/State Collected:

Please Circle: PT MT CT ET

Phone: 832-251-5160

Client Project #

Lab Project #
TETRAHTX-KELLER

Collected by (print):
Janine Angerer

Site/Facility ID #

P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	DROCA, SV8270 8ozClr-NoPres	GROCA 40mlAmb/MeOH10ml/Syr	MRCRA8 8ozClr-NoPres	SV8081,SV8141,SV8151 8ozClr-NoPres	V8260 40mlAmb/MeOH10ml/Syr	Remarks	Sample # (lab only)
Area 14-5-2	Grab	SS	1-2	9/18/24	1225	3						Hold sample -11	
		SS											
		SS											
		SS											
		SS											
		SS											
		SS											
		SS											
		SS											
		SS											

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # UTA9350

Table #

Acctnum: TETRAHTX
Template: T259305
Prelogin: P1097763
PM: 3564 - Chad A Upchurch
PB:

Shipped Via: FedEX Standard

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: See page 1 remarks.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7155 0302 0658

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	9/18/24	1445		1	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 09.03.f-2 TUA9 Bottles Received: 33	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 09.19.24 Time: 0915	Hold: Condition: NCF / OK

CONFIDENTIAL

No reliance without separate reliance agreement.

ANALYTICAL REPORT

September 25, 2024

Tetra Tech EMI - Houston, TX

Samp e e er roup: L1779430

Samp es ece ed: 09/19/2024

Project umber:

escr pt on: Horton - C e er Cross ng Phase II

eport To: ana E dam/Manue a Pastrano
1500 C t est ou e ard
Su te 1000
Houston, TX 77042

Ent re eport e e ed :

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

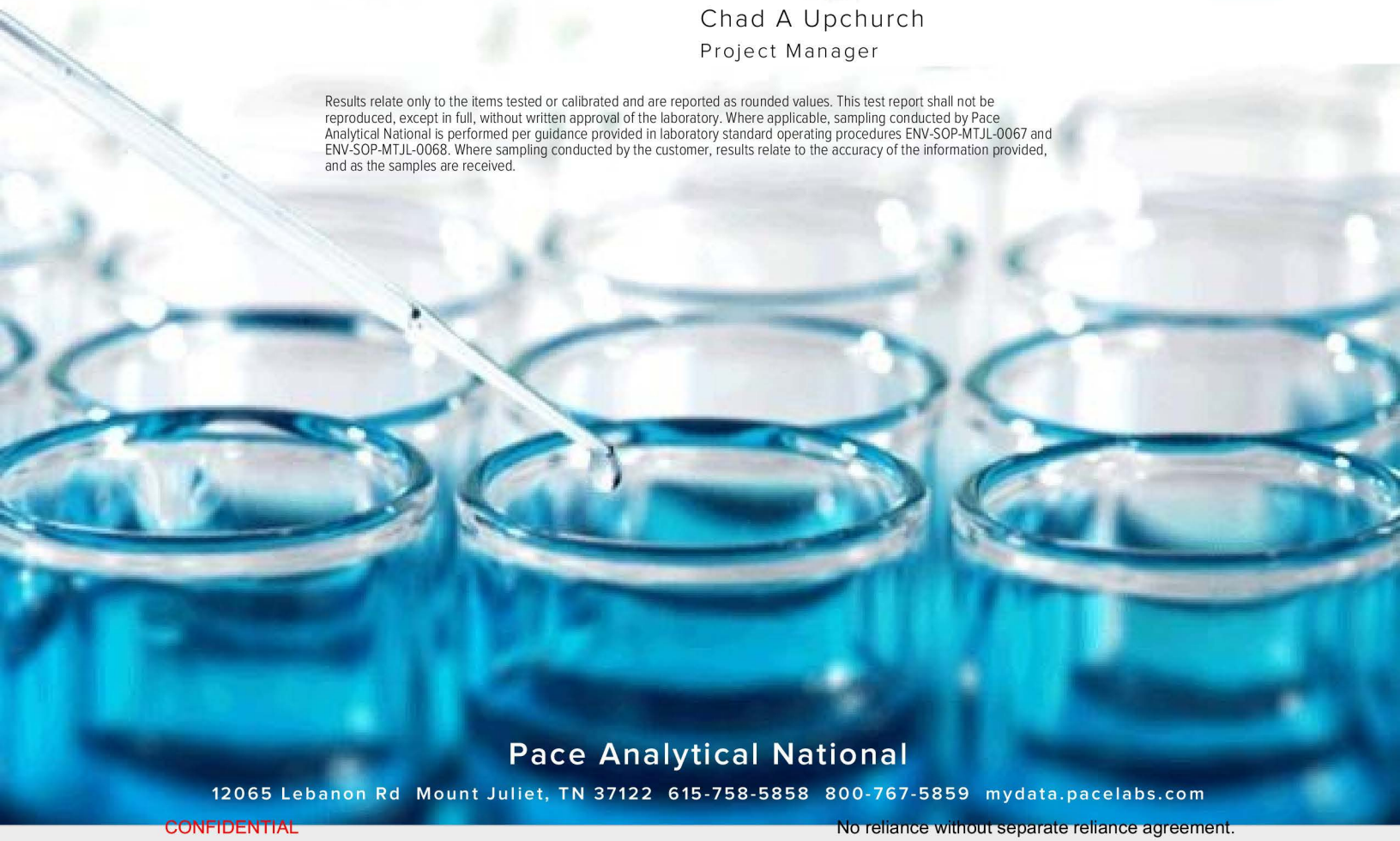


TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

AREA15-COMP L1779430-01 5

Qc: Quality Control Summary 10

Total Solids by Method 2540 G-2011 10

Mercury by Method 7471A 11

Metals (ICP) by Method 6010D 12

Volatile Organic Compounds (GC) by Method 8015 14

Volatile Organic Compounds (GC/MS) by Method 8260B 15

Semi-Volatile Organic Compounds (GC) by Method 8015 21

Chlorinated Acid Herbicides (GC) by Method 8151 22

OP Pesticides by Method 8141 24

Pesticides (GC) by Method 8081 26

Semi Volatile Organic Compounds (GC/MS) by Method 8270C 28

Gl: Glossary of Terms 33

Al: Accreditations & Locations 35

Sc: Sample Chain of Custody 36

A EA15-C MP L1779430-01 So d

Collected by: Janine Angenent
Collected date/time: 09/18/24 10:20
Received date/time: 09/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2366321	1	09/20/24 12:30	09/20/24 12:45	MT	Mt. Juliet, TN
Mercury by Method 7471A	WG2366424	1	09/20/24 14:09	09/21/24 11:05	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2366513	1	09/22/24 11:14	09/23/24 16:56	SA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG2366163	25.8	09/18/24 10:20	09/20/24 03:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2366229	1.03	09/18/24 10:20	09/20/24 01:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG2368266	1	09/24/24 08:07	09/24/24 16:27	KKS	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151	WG2365909	1	09/20/24 06:27	09/21/24 22:13	NWH	Mt. Juliet, TN
OP Pesticides by Method 8141	WG2365773	1	09/20/24 08:11	09/21/24 11:13	MEW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG2368272	1	09/24/24 09:33	09/24/24 14:53	MEW	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2367359	2	09/23/24 15:57	09/24/24 17:53	JRM	Mt. Juliet, TN

A samp e a uots ere rece ed at the correct temperature, n the proper conta ners, th the appropr ate preser at es, and th n method spec f ed ho d ng t mes, un ess ua f ed or notated th n the report here app cab e, a M L L and L L a ues reported for en ronmenta samp es ha e been corrected for the d ut on factor used n the ana s s A Method and atch ua t Contro are th n estab shed cr ter a e cept here addressed n th s case narrat e, a non-conformance form or proper ua f ed th n the samp e resu ts m d g ta s gnature be o , l aff rm to the best of m no edge, a prob ems/anoma es obser ed b the aborator as ha ng the potent a to affect the ua t of the data ha e been dent f ed b the aborator , and no nformat on or data ha e been no ng thhe d that ou d affect the ua t of the data

Chad A Upchurch
Project Manager

Tota So ds b Method 2540 -2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	09/20/2024 12:45	WG2366321

Mercur b Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0373	_	0.0185	0.0411	1	09/21/2024 11:05	WG2366424

Meta s ICP b Method 6010

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	11.3		0.532	2.06	1	09/23/2024 16:56	WG2366513
Barium	153		0.0876	0.514	1	09/23/2024 16:56	WG2366513
Cadmium	0.258		0.0484	0.514	1	09/23/2024 16:56	WG2366513
Chromium	19.8		0.137	1.03	1	09/23/2024 16:56	WG2366513
Lead	10.4		0.214	0.514	1	09/23/2024 16:56	WG2366513
Selenium	U		0.785	2.06	1	09/23/2024 16:56	WG2366513
Silver	U		0.131	1.03	1	09/23/2024 16:56	WG2366513

o at e rgan c Compounds C b Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	1.93		0.904	2.72	25.8	09/20/2024 03:12	WG2366163
(S) a,a,a-Trifluorotoluene(FID)	*99.6*			*77.0-120*		*09/20/2024 03:12*	WG2366163

o at e rgan c Compounds C/MS b Method 8260

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	4	0.0397	0.0543	1.03	09/20/2024 01:15	WG2366229
Acrylonitrile	U		0.00392	0.0136	1.03	09/20/2024 01:15	WG2366229
Benzene	U		0.000507	0.00109	1.03	09/20/2024 01:15	WG2366229
Bromobenzene	U		0.000978	0.0136	1.03	09/20/2024 01:15	WG2366229
Bromodichloromethane	U		0.000788	0.00272	1.03	09/20/2024 01:15	WG2366229
Bromoform	U		0.00128	0.0272	1.03	09/20/2024 01:15	WG2366229
Bromomethane	U		0.00214	0.0136	1.03	09/20/2024 01:15	WG2366229
n-Butylbenzene	U		0.00571	0.0136	1.03	09/20/2024 01:15	WG2366229
sec-Butylbenzene	U	4	0.00313	0.0136	1.03	09/20/2024 01:15	WG2366229
tert-Butylbenzene	U	4	0.00212	0.00543	1.03	09/20/2024 01:15	WG2366229
Carbon tetrachloride	U		0.000976	0.00543	1.03	09/20/2024 01:15	WG2366229
Chlorobenzene	U		0.000228	0.00272	1.03	09/20/2024 01:15	WG2366229
Chlorodibromomethane	U		0.000664	0.00272	1.03	09/20/2024 01:15	WG2366229
Chloroethane	U		0.00185	0.00543	1.03	09/20/2024 01:15	WG2366229
Chloroform	U		0.00112	0.00272	1.03	09/20/2024 01:15	WG2366229
Chloromethane	U		0.00473	0.0136	1.03	09/20/2024 01:15	WG2366229
2-Chlorotoluene	U		0.000940	0.00272	1.03	09/20/2024 01:15	WG2366229
4-Chlorotoluene	U		0.000489	0.00543	1.03	09/20/2024 01:15	WG2366229
1,2-Dibromo-3-Chloropropane	U		0.00424	0.0272	1.03	09/20/2024 01:15	WG2366229
1,2-Dibromoethane	U		0.000703	0.00272	1.03	09/20/2024 01:15	WG2366229
Dibromomethane	U		0.000815	0.00543	1.03	09/20/2024 01:15	WG2366229
1,2-Dichlorobenzene	U		0.000462	0.00543	1.03	09/20/2024 01:15	WG2366229
1,3-Dichlorobenzene	U		0.000652	0.00543	1.03	09/20/2024 01:15	WG2366229
1,4-Dichlorobenzene	U		0.000760	0.00543	1.03	09/20/2024 01:15	WG2366229
Dichlorodifluoromethane	U		0.00175	0.00543	1.03	09/20/2024 01:15	WG2366229
1,1-Dichloroethane	U		0.000534	0.00272	1.03	09/20/2024 01:15	WG2366229

o at e rgan c Compounds C/MS b Method 8260

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000705	0.00272	1.03	09/20/2024 01:15	WG2366229
1,1-Dichloroethene	U		0.000658	0.00272	1.03	09/20/2024 01:15	WG2366229
cis-1,2-Dichloroethene	U		0.000797	0.00272	1.03	09/20/2024 01:15	WG2366229
trans-1,2-Dichloroethene	U		0.00113	0.00543	1.03	09/20/2024 01:15	WG2366229
1,2-Dichloropropane	U		0.00154	0.00543	1.03	09/20/2024 01:15	WG2366229
1,1-Dichloropropene	U		0.000879	0.00272	1.03	09/20/2024 01:15	WG2366229
1,3-Dichloropropane	U		0.000544	0.00543	1.03	09/20/2024 01:15	WG2366229
cis-1,3-Dichloropropene	U		0.000823	0.00272	1.03	09/20/2024 01:15	WG2366229
trans-1,3-Dichloropropene	U		0.00123	0.00543	1.03	09/20/2024 01:15	WG2366229
2,2-Dichloropropane	U		0.00150	0.00272	1.03	09/20/2024 01:15	WG2366229
Di-isopropyl ether	U		0.000445	0.00109	1.03	09/20/2024 01:15	WG2366229
Ethylbenzene	U		0.000801	0.00272	1.03	09/20/2024 01:15	WG2366229
Hexachloro-1,3-butadiene	U		0.00652	0.0272	1.03	09/20/2024 01:15	WG2366229
Isopropylbenzene	U		0.000462	0.00272	1.03	09/20/2024 01:15	WG2366229
p-Isopropyltoluene	U		0.00277	0.00543	1.03	09/20/2024 01:15	WG2366229
2-Butanone (MEK)	U		0.0690	0.109	1.03	09/20/2024 01:15	WG2366229
Methylene Chloride	U		0.00721	0.0272	1.03	09/20/2024 01:15	WG2366229
4-Methyl-2-pentanone (MIBK)	U		0.00248	0.0272	1.03	09/20/2024 01:15	WG2366229
Methyl tert-butyl ether	U		0.000381	0.00109	1.03	09/20/2024 01:15	WG2366229
Naphthalene	U		0.00531	0.0136	1.03	09/20/2024 01:15	WG2366229
n-Propylbenzene	U		0.00103	0.00543	1.03	09/20/2024 01:15	WG2366229
Styrene	U		0.000249	0.0136	1.03	09/20/2024 01:15	WG2366229
1,1,1,2-Tetrachloroethane	U		0.00103	0.00272	1.03	09/20/2024 01:15	WG2366229
1,1,2,2-Tetrachloroethane	U		0.000755	0.00272	1.03	09/20/2024 01:15	WG2366229
1,1,2-Trichlorotrifluoroethane	U		0.000820	0.00272	1.03	09/20/2024 01:15	WG2366229
Tetrachloroethene	U		0.000974	0.00272	1.03	09/20/2024 01:15	WG2366229
Toluene	U		0.00141	0.00543	1.03	09/20/2024 01:15	WG2366229
1,2,3-Trichlorobenzene	U		0.00796	0.0136	1.03	09/20/2024 01:15	WG2366229
1,2,4-Trichlorobenzene	U		0.00478	0.0136	1.03	09/20/2024 01:15	WG2366229
1,1,1-Trichloroethane	U		0.00100	0.00272	1.03	09/20/2024 01:15	WG2366229
1,1,2-Trichloroethane	U		0.000649	0.00272	1.03	09/20/2024 01:15	WG2366229
Trichloroethene	U		0.000635	0.00109	1.03	09/20/2024 01:15	WG2366229
Trichlorofluoromethane	U		0.000899	0.00272	1.03	09/20/2024 01:15	WG2366229
1,2,3-Trichloropropane	U		0.00176	0.0136	1.03	09/20/2024 01:15	WG2366229
1,2,4-Trimethylbenzene	U		0.00172	0.00543	1.03	09/20/2024 01:15	WG2366229
1,2,3-Trimethylbenzene	U		0.00172	0.00543	1.03	09/20/2024 01:15	WG2366229
1,3,5-Trimethylbenzene	U		0.00217	0.00543	1.03	09/20/2024 01:15	WG2366229
Vinyl chloride	U		0.00126	0.00272	1.03	09/20/2024 01:15	WG2366229
Xylenes, Total	U		0.000956	0.00707	1.03	09/20/2024 01:15	WG2366229
(S) Toluene-d8	*102*			*75.0-131*		*09/20/2024 01:15*	WG2366229
(S) 4-Bromofluorobenzene	*98.9*			*67.0-138*		*09/20/2024 01:15*	WG2366229
(S) 1,2-Dichloroethane-d4	*93.4*			*70.0-130*		*09/20/2024 01:15*	WG2366229

Sem - o at e rgan c Compounds C b Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	12.0		0.753	4.11	1	09/24/2024 16:27	WG2368266
(S) o-Terphenyl	*39.6*			*18.0-148*		*09/24/2024 16:27*	WG2368266

Ch or nated Ac d Herb c des C b Method 8151

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.00721	0.0719	1	09/21/2024 22:13	WG2365909
Dalapon	U		0.0116	0.0719	1	09/21/2024 22:13	WG2365909
2,4-DB	U		0.0305	0.0719	1	09/21/2024 22:13	WG2365909
Dicamba	U		0.0161	0.0719	1	09/21/2024 22:13	WG2365909
Dichloroprop	U		0.0252	0.0719	1	09/21/2024 22:13	WG2365909
Dinoseb	U		0.00716	0.0719	1	09/21/2024 22:13	WG2365909
MCPA	U		0.455	6.68	1	09/21/2024 22:13	WG2365909
MCPP	U		0.377	6.68	1	09/21/2024 22:13	WG2365909
2,4,5-T	U		0.00876	0.0719	1	09/21/2024 22:13	WG2365909
2,4,5-TP (Silvex)	U		0.0110	0.0719	1	09/21/2024 22:13	WG2365909
(S) 2,4-Dichlorophenyl Acetic Acid	*82.4*			*22.0-132*		*09/21/2024 22:13*	WG2365909

P Pest c des b Method 8141

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Azinphos-Methyl	U		0.0327	0.103	1	09/21/2024 11:13	WG2365773
Bolstar (Sulprofos)	U		0.0153	0.103	1	09/21/2024 11:13	WG2365773
Chlorpyrifos	U		0.0161	0.103	1	09/21/2024 11:13	WG2365773
Coumaphos	U		0.0250	0.103	1	09/21/2024 11:13	WG2365773
Demeton,-O and -S	U		0.00600	0.0719	1	09/21/2024 11:13	WG2365773
Diazinon	U		0.0231	0.103	1	09/21/2024 11:13	WG2365773
Dichlorvos	U		0.0308	0.103	1	09/21/2024 11:13	WG2365773
Dimethoate	U		0.0343	0.103	1	09/21/2024 11:13	WG2365773
Disulfoton	U		0.0261	0.103	1	09/21/2024 11:13	WG2365773
EPN	U		0.0284	0.103	1	09/21/2024 11:13	WG2365773
Ethoprop	U		0.0121	0.103	1	09/21/2024 11:13	WG2365773
Ethyl Parathion	U		0.0169	0.103	1	09/21/2024 11:13	WG2365773
Fensulfothion	U		0.0363	0.103	1	09/21/2024 11:13	WG2365773
Fenthion	U		0.0137	0.103	1	09/21/2024 11:13	WG2365773
Malathion	U		0.0184	0.103	1	09/21/2024 11:13	WG2365773
Merphos	U		0.0238	0.103	1	09/21/2024 11:13	WG2365773
Methyl parathion	U		0.0209	0.103	1	09/21/2024 11:13	WG2365773
Mevinphos	U		0.0236	0.103	1	09/21/2024 11:13	WG2365773
Naled	U		0.0493	0.103	1	09/21/2024 11:13	WG2365773
Phorate	U		0.0216	0.103	1	09/21/2024 11:13	WG2365773
Ronnel	U		0.0153	0.103	1	09/21/2024 11:13	WG2365773
Stirophos	U		0.0183	0.103	1	09/21/2024 11:13	WG2365773
Sulfotep	U		0.0101	0.103	1	09/21/2024 11:13	WG2365773
TEPP	U		0.161	1.03	1	09/21/2024 11:13	WG2365773
Tokuthion (Prothothiofos)	U		0.0154	0.103	1	09/21/2024 11:13	WG2365773
Trichloronate	U		0.0207	0.103	1	09/21/2024 11:13	WG2365773
(S) Triphenyl Phosphate	*96.1*			*36.0-121*		*09/21/2024 11:13*	WG2365773

Pest c des C b Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00386	0.0206	1	09/24/2024 14:53	WG2368272
Alpha BHC	U		0.00378	0.0206	1	09/24/2024 14:53	WG2368272
Beta BHC	U		0.00390	0.0206	1	09/24/2024 14:53	WG2368272
Delta BHC	U		0.00356	0.0206	1	09/24/2024 14:53	WG2368272
Gamma BHC	U		0.00354	0.0206	1	09/24/2024 14:53	WG2368272
4,4-DDD	U		0.00380	0.0206	1	09/24/2024 14:53	WG2368272
4,4-DDE	U		0.00376	0.0206	1	09/24/2024 14:53	WG2368272
4,4-DDT	U		0.00644	0.0206	1	09/24/2024 14:53	WG2368272
Dieldrin	U		0.00354	0.0206	1	09/24/2024 14:53	WG2368272

Pest c des C b Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Endosulfan I	U		0.00373	0.0206	1	09/24/2024 14:53	WG2368272
Endosulfan II	U		0.00344	0.0206	1	09/24/2024 14:53	WG2368272
Endosulfan sulfate	U		0.00374	0.0206	1	09/24/2024 14:53	WG2368272
Endrin	U		0.00360	0.0206	1	09/24/2024 14:53	WG2368272
Endrin aldehyde	U		0.00348	0.0206	1	09/24/2024 14:53	WG2368272
Endrin ketone	U		0.00731	0.0206	1	09/24/2024 14:53	WG2368272
Heptachlor	U		0.00440	0.0206	1	09/24/2024 14:53	WG2368272
Heptachlor epoxide	U		0.00348	0.0206	1	09/24/2024 14:53	WG2368272
Hexachlorobenzene	U		0.00356	0.0206	1	09/24/2024 14:53	WG2368272
Methoxychlor	U		0.00497	0.0206	1	09/24/2024 14:53	WG2368272
Chlordane	U		0.106	0.308	1	09/24/2024 14:53	WG2368272
Toxaphene	U		0.127	0.411	1	09/24/2024 14:53	WG2368272
(S) Decachlorobiphenyl	*71.8*			*10.0-135*		*09/24/2024 14:53*	WG2368272
(S) Tetrachloro-m-xylene	*76.0*			*10.0-139*		*09/24/2024 14:53*	WG2368272

Sem o at e rgan c Compounds C/MS b Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0111	0.0684	2	09/24/2024 17:53	WG2367359
Acenaphthylene	U		0.00964	0.0684	2	09/24/2024 17:53	WG2367359
Anthracene	U		0.0122	0.0684	2	09/24/2024 17:53	WG2367359
Benzidine	U		0.128	3.43	2	09/24/2024 17:53	WG2367359
Benzo(a)anthracene	U		0.0120	0.0684	2	09/24/2024 17:53	WG2367359
Benzo(b)fluoranthene	U		0.0127	0.0684	2	09/24/2024 17:53	WG2367359
Benzo(k)fluoranthene	U		0.0121	0.0684	2	09/24/2024 17:53	WG2367359
Benzo(g,h,i)perylene	U		0.0125	0.0684	2	09/24/2024 17:53	WG2367359
Benzo(a)pyrene	U		0.0127	0.0684	2	09/24/2024 17:53	WG2367359
Bis(2-chlorethoxy)methane	U		0.0206	0.684	2	09/24/2024 17:53	WG2367359
Bis(2-chloroethyl)ether	U		0.0226	0.684	2	09/24/2024 17:53	WG2367359
2,2-Oxybis(1-Chloropropane)	U		0.0296	0.684	2	09/24/2024 17:53	WG2367359
4-Bromophenyl-phenylether	U		0.0240	0.684	2	09/24/2024 17:53	WG2367359
2-Chloronaphthalene	U		0.0120	0.0684	2	09/24/2024 17:53	WG2367359
4-Chlorophenyl-phenylether	U		0.0238	0.684	2	09/24/2024 17:53	WG2367359
Chrysene	U		0.0136	0.0684	2	09/24/2024 17:53	WG2367359
Dibenz(a,h)anthracene	U		0.0190	0.0684	2	09/24/2024 17:53	WG2367359
3,3-Dichlorobenzidine	U		0.0253	0.684	2	09/24/2024 17:53	WG2367359
2,4-Dinitrotoluene	U		0.0196	0.684	2	09/24/2024 17:53	WG2367359
2,6-Dinitrotoluene	U		0.0224	0.684	2	09/24/2024 17:53	WG2367359
Fluoranthene	U		0.0123	0.0684	2	09/24/2024 17:53	WG2367359
Fluorene	U		0.0111	0.0684	2	09/24/2024 17:53	WG2367359
Hexachlorobenzene	U		0.0243	0.684	2	09/24/2024 17:53	WG2367359
Hexachloro-1,3-butadiene	U		0.0230	0.684	2	09/24/2024 17:53	WG2367359
Hexachlorocyclopentadiene	U		0.0360	0.684	2	09/24/2024 17:53	WG2367359
Hexachloroethane	U		0.0269	0.684	2	09/24/2024 17:53	WG2367359
Indeno(1,2,3-cd)pyrene	U		0.0193	0.0684	2	09/24/2024 17:53	WG2367359
Isophorone	U		0.0210	0.684	2	09/24/2024 17:53	WG2367359
Naphthalene	U		0.0172	0.0684	2	09/24/2024 17:53	WG2367359
Nitrobenzene	U		0.0238	0.684	2	09/24/2024 17:53	WG2367359
n-Nitrosodimethylamine	U		0.102	0.684	2	09/24/2024 17:53	WG2367359
n-Nitrosodiphenylamine	U		0.0518	0.684	2	09/24/2024 17:53	WG2367359
n-Nitrosodi-n-propylamine	U		0.0228	0.684	2	09/24/2024 17:53	WG2367359
Phenanthrene	U		0.0136	0.0684	2	09/24/2024 17:53	WG2367359
Benzylbutyl phthalate	U		0.0214	0.684	2	09/24/2024 17:53	WG2367359
Bis(2-ethylhexyl)phthalate	U		0.0867	0.684	2	09/24/2024 17:53	WG2367359
Di-n-butyl phthalate	U		0.0234	0.684	2	09/24/2024 17:53	WG2367359
Diethyl phthalate	U		0.0226	0.684	2	09/24/2024 17:53	WG2367359

Sem o at e rgan c Compounds C/MS b Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dimethyl phthalate	U		0.145	0.684	2	09/24/2024 17:53	WG2367359
Di-n-octyl phthalate	U		0.0462	0.684	2	09/24/2024 17:53	WG2367359
Pyrene	U		0.0134	0.0684	2	09/24/2024 17:53	WG2367359
1,2,4-Trichlorobenzene	U		0.0214	0.684	2	09/24/2024 17:53	WG2367359
4-Chloro-3-methylphenol	U		0.0222	0.684	2	09/24/2024 17:53	WG2367359
2-Chlorophenol	U		0.0226	0.684	2	09/24/2024 17:53	WG2367359
2,4-Dichlorophenol	U		0.0199	0.684	2	09/24/2024 17:53	WG2367359
2,4-Dimethylphenol	U		0.0179	0.684	2	09/24/2024 17:53	WG2367359
4,6-Dinitro-2-methylphenol	U		0.155	0.684	2	09/24/2024 17:53	WG2367359
2,4-Dinitrophenol	U		0.160	0.684	2	09/24/2024 17:53	WG2367359
2-Nitrophenol	U		0.0245	0.684	2	09/24/2024 17:53	WG2367359
4-Nitrophenol	U		0.0214	0.684	2	09/24/2024 17:53	WG2367359
Pentachlorophenol	U		0.0184	0.684	2	09/24/2024 17:53	WG2367359
Phenol	U		0.0275	0.684	2	09/24/2024 17:53	WG2367359
2,4,6-Trichlorophenol	U		0.0220	0.684	2	09/24/2024 17:53	WG2367359
(S) 2-Fluorophenol	*71.9*			*12.0-120*		*09/24/2024 17:53*	WG2367359
(S) Phenol-d5	*66.2*			*10.0-120*		*09/24/2024 17:53*	WG2367359
(S) Nitrobenzene-d5	*62.1*			*10.0-122*		*09/24/2024 17:53*	WG2367359
(S) 2-Fluorobiphenyl	*62.5*			*15.0-120*		*09/24/2024 17:53*	WG2367359
(S) 2,4,6-Tribromophenol	*69.0*			*10.0-127*		*09/24/2024 17:53*	WG2367359
(S) p-Terphenyl-d14	*75.4*			*10.0-120*		*09/24/2024 17:53*	WG2367359

Sample Narrative:

L1779430-01 WG2367359: Dilution due to matrix impact during extract concentration procedure.

Method an M

M 4122725-1 09/20/24 12:45

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1779406-04 r g na Samp e S up cate UP

S L1779406-04 09/20/24 12:45 UP 4122725-3 09/20/24 12:45

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.5	83.6	1	0.128		10

Laborator Contro Samp e LCS

LCS 4122725-2 09/20/24 12:45

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method an M

M 4122658-1 09/21/24 09:55

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laborator Contro Samp e LCS

LCS 4122658-2 09/21/24 09:58

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.519	104	80.0-120	

L1778742-06 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778742-06 09/21/24 10:00 MS 4122658-4 09/21/24 10:05 MS 4122658-5 09/21/24 10:08

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg				%	%		%			%	%
Mercury	0.744	0.0963	0.838	0.868	99.7	104	1	75.0-125			3.57	20

Method an M

M 4122990-1 09/23/24 00:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	0.154	_	0.0852	0.500
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00

Method an M

M 4123267-1 09/23/24 16:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.518	2.00
Barium	0.139	_	0.0852	0.500
Cadmium	0.0534	_	0.0471	0.500
Chromium	U		0.133	1.00
Lead	U		0.208	0.500
Selenium	U		0.764	2.00
Silver	U		0.127	1.00

Laborator Contro Samp e LCS

LCS 4122990-2 09/23/24 00:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	107	107	80.0-120	
Cadmium	100	100	100	80.0-120	
Chromium	100	107	107	80.0-120	
Selenium	100	102	102	80.0-120	
Silver	20.0	19.6	98.0	80.0-120	

Laborator Contro Samp e LCS

LCS 4123267-2 09/23/24 16:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	99.7	99.7	80.0-120	
Barium	100	103	103	80.0-120	
Cadmium	100	102	102	80.0-120	
Chromium	100	103	103	80.0-120	

Laborator Contro Samp e LCS

LCS 4123267-2 09/23/24 16:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	101	101	80.0-120	
Selenium	100	99.0	99.0	80.0-120	
Silver	20.0	19.8	99.2	80.0-120	

L1779142-02 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1779142-02 09/23/24 00:28 MS 4122990-5 09/23/24 00:36 MS 4122990-6 09/23/24 00:39

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	121	53.1	181	181	106	106	1	75.0-125			0.0508	20
Cadmium	121	U	104	109	85.9	90.5	1	75.0-125			5.26	20
Chromium	121	8.32	121	124	93.1	95.7	1	75.0-125			2.59	20
Selenium	121	U	94.2	81.6	78.0	67.6	1	75.0-125		6	14.4	20
Silver	24.2	U	20.2	21.6	83.5	89.3	1	75.0-125			6.74	20

L1779142-02 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1779142-02 09/23/24 16:26 MS 4123267-5 09/23/24 16:31 MS 4123267-6 09/23/24 16:33

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	121	1.34	101	99.1	82.6	80.9	1	75.0-125			2.05	20
Lead	121	18.3	129	129	91.9	91.6	1	75.0-125			0.290	20

Method an M

M 4123046-2 09/20/24 01:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	2.00	_	0.830	2.50
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*77.0-120*

Laborator Contro Samp e LCS

LCS 4123046-1 09/19/24 23:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5.00	4.12	82.4	72.0-125	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

L1778548-03 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778548-03 09/20/24 08:20 MS 4123046-3 09/20/24 09:14 MS 4123046-4 09/20/24 09:39

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHG C5 - C12	172	10.9	154	142	83.1	75.9	25	10.0-141			8.46	29
(S) a,a,a-Trifluorotoluene(FID)					*106*	*106*		*77.0-120*				

Method an M

M 4122937-2 09/19/24 23:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method an M

M 4122937-2 09/19/24 23:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

Laborator Contro Samp e LCS

LCS 4122937-1 09/19/24 22:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	1.25	200	10.0-160	4
Acrylonitrile	0.625	0.951	152	45.0-153	
Benzene	0.125	0.110	88.0	70.0-123	
Bromobenzene	0.125	0.105	84.0	73.0-121	
Bromodichloromethane	0.125	0.115	92.0	73.0-121	

Laborator Contro Samp e LCS

LCS 4122937-1 09/19/24 22:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.0908	72.6	64.0-132	
Bromomethane	0.125	0.0959	76.7	56.0-147	
n-Butylbenzene	0.125	0.0888	71.0	68.0-135	
sec-Butylbenzene	0.125	0.0907	72.6	74.0-130	4
tert-Butylbenzene	0.125	0.0914	73.1	75.0-127	4
Carbon tetrachloride	0.125	0.111	88.8	66.0-128	
Chlorobenzene	0.125	0.111	88.8	76.0-128	
Chlorodibromomethane	0.125	0.103	82.4	74.0-127	
Chloroethane	0.125	0.127	102	61.0-134	
Chloroform	0.125	0.115	92.0	72.0-123	
Chloromethane	0.125	0.164	131	51.0-138	
2-Chlorotoluene	0.125	0.103	82.4	75.0-124	
4-Chlorotoluene	0.125	0.0989	79.1	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.0873	69.8	59.0-130	
1,2-Dibromoethane	0.125	0.113	90.4	74.0-128	
Dibromomethane	0.125	0.122	97.6	75.0-122	
1,2-Dichlorobenzene	0.125	0.108	86.4	76.0-124	
1,3-Dichlorobenzene	0.125	0.102	81.6	76.0-125	
1,4-Dichlorobenzene	0.125	0.102	81.6	77.0-121	
Dichlorodifluoromethane	0.125	0.114	91.2	43.0-156	
1,1-Dichloroethane	0.125	0.136	109	70.0-127	
1,2-Dichloroethane	0.125	0.126	101	65.0-131	
1,1-Dichloroethene	0.125	0.138	110	65.0-131	
cis-1,2-Dichloroethene	0.125	0.116	92.8	73.0-125	
trans-1,2-Dichloroethene	0.125	0.105	84.0	71.0-125	
1,2-Dichloropropane	0.125	0.147	118	74.0-125	
1,1-Dichloropropene	0.125	0.118	94.4	73.0-125	
1,3-Dichloropropane	0.125	0.119	95.2	80.0-125	
cis-1,3-Dichloropropene	0.125	0.113	90.4	76.0-127	
trans-1,3-Dichloropropene	0.125	0.108	86.4	73.0-127	
2,2-Dichloropropane	0.125	0.0950	76.0	59.0-135	
Di-isopropyl ether	0.125	0.170	136	60.0-136	
Ethylbenzene	0.125	0.105	84.0	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.0844	67.5	57.0-150	
Isopropylbenzene	0.125	0.100	80.0	72.0-127	
p-Isopropyltoluene	0.125	0.0912	73.0	72.0-133	
2-Butanone (MEK)	0.625	0.914	146	30.0-160	
Methylene Chloride	0.125	0.123	98.4	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.866	139	56.0-143	
Methyl tert-butyl ether	0.125	0.122	97.6	66.0-132	

Laborator Contro Samp e LCS

LCS 4122937-1 09/19/24 22:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.0847	67.8	59.0-130	
n-Propylbenzene	0.125	0.0965	77.2	74.0-126	
Styrene	0.125	0.105	84.0	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.110	88.0	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.0985	78.8	68.0-128	
1,1,2-Trichlorotrifluoroethane	0.125	0.124	99.2	61.0-139	
Tetrachloroethene	0.125	0.114	91.2	70.0-136	
Toluene	0.125	0.105	84.0	75.0-121	
1,2,3-Trichlorobenzene	0.125	0.0919	73.5	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.0962	77.0	62.0-137	
1,1,1-Trichloroethane	0.125	0.118	94.4	69.0-126	
1,1,2-Trichloroethane	0.125	0.112	89.6	78.0-123	
Trichloroethene	0.125	0.133	106	76.0-126	
Trichlorofluoromethane	0.125	0.108	86.4	61.0-142	
1,2,3-Trichloropropane	0.125	0.117	93.6	67.0-129	
1,2,4-Trimethylbenzene	0.125	0.0946	75.7	70.0-126	
1,2,3-Trimethylbenzene	0.125	0.0961	76.9	74.0-124	
1,3,5-Trimethylbenzene	0.125	0.0967	77.4	73.0-127	
Vinyl chloride	0.125	0.113	90.4	63.0-134	
Xylenes, Total	0.375	0.312	83.2	72.0-127	
(S) Toluene-d8			*99.2*	*75.0-131*	
(S) 4-Bromofluorobenzene			*104*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*111*	*70.0-130*	

L1778061-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778061-01 09/20/24 03:07 MS 4122937-3 09/20/24 05:35 MS 4122937-4 09/20/24 05:54

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.957	U	0.756	1.61	79.0	168	1.02	10.0-160		3 5	71.9	40
Acrylonitrile	0.957	U	0.900	1.32	94.0	138	1.02	10.0-160			37.7	40
Benzene	0.192	U	0.194	0.206	101	107	1.02	10.0-149			6.02	37
Bromobenzene	0.192	U	0.189	0.194	98.4	101	1.02	10.0-156			2.35	38
Bromodichloromethane	0.192	U	0.188	0.197	97.7	102	1.02	10.0-143			4.69	37
Bromoform	0.192	U	0.164	0.161	85.2	83.6	1.02	10.0-146			1.85	36
Bromomethane	0.192	U	0.155	0.161	80.5	83.6	1.02	10.0-149			3.81	38
n-Butylbenzene	0.192	U	0.146	0.173	75.8	89.8	1.02	10.0-160			17.0	40
sec-Butylbenzene	0.192	U	0.156	0.182	81.3	94.5	1.02	10.0-159			15.1	39
tert-Butylbenzene	0.192	U	0.153	0.180	79.7	93.7	1.02	10.0-156			16.2	39

L1778061-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778061-01 09/20/24 03:07 MS 4122937-3 09/20/24 05:35 MS 4122937-4 09/20/24 05:54

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Carbon tetrachloride	0.192	U	0.192	0.233	100	121	1.02	10.0-145			19.1	37
Chlorobenzene	0.192	U	0.191	0.210	99.2	109	1.02	10.0-152			9.74	39
Chlorodibromomethane	0.192	U	0.177	0.174	92.2	90.6	1.02	10.0-146			1.71	37
Chloroethane	0.192	U	0.189	0.212	98.4	110	1.02	10.0-146			11.2	40
Chloroform	0.192	U	0.191	0.197	99.2	102	1.02	10.0-146			3.10	37
Chloromethane	0.192	U	0.282	0.345	147	180	1.02	10.0-159		5	20.1	37
2-Chlorotoluene	0.192	U	0.176	0.195	91.4	102	1.02	10.0-159			10.5	38
4-Chlorotoluene	0.192	U	0.173	0.192	89.8	100	1.02	10.0-155			10.7	39
1,2-Dibromo-3-Chloropropane	0.192	U	0.146	0.130	76.2	67.7	1.02	10.0-151			11.8	39
1,2-Dibromoethane	0.192	U	0.194	0.200	101	104	1.02	10.0-148			3.05	34
Dibromomethane	0.192	U	0.186	0.185	96.9	96.1	1.02	10.0-147			0.810	35
1,2-Dichlorobenzene	0.192	U	0.185	0.192	96.1	100	1.02	10.0-155			3.98	37
1,3-Dichlorobenzene	0.192	U	0.176	0.189	91.4	98.4	1.02	10.0-153			7.41	38
1,4-Dichlorobenzene	0.192	U	0.180	0.191	93.7	99.2	1.02	10.0-151			5.67	38
Dichlorodifluoromethane	0.192	U	0.177	0.242	92.2	126	1.02	10.0-160			30.8	35
1,1-Dichloroethane	0.192	U	0.233	0.263	121	137	1.02	10.0-147			12.1	37
1,2-Dichloroethane	0.192	U	0.182	0.179	94.5	93.0	1.02	10.0-148			1.67	35
1,1-Dichloroethene	0.192	U	0.240	0.297	125	155	1.02	10.0-155			21.2	37
cis-1,2-Dichloroethene	0.192	U	0.180	0.192	93.7	100	1.02	10.0-149			6.45	37
trans-1,2-Dichloroethene	0.192	U	0.182	0.221	94.5	115	1.02	10.0-150			19.4	37
1,2-Dichloropropane	0.192	U	0.242	0.263	126	137	1.02	10.0-148			8.33	37
1,1-Dichloropropene	0.192	U	0.198	0.228	103	119	1.02	10.0-153			14.1	35
1,3-Dichloropropane	0.192	U	0.200	0.201	104	105	1.02	10.0-154			0.749	35
cis-1,3-Dichloropropene	0.192	U	0.194	0.203	101	105	1.02	10.0-151			4.55	37
trans-1,3-Dichloropropene	0.192	U	0.189	0.197	98.4	102	1.02	10.0-148			3.89	37
2,2-Dichloropropane	0.192	U	0.185	0.195	96.1	102	1.02	10.0-138			5.53	36
Di-isopropyl ether	0.192	U	0.273	0.270	142	141	1.02	10.0-147			1.10	36
Ethylbenzene	0.192	U	0.170	0.201	88.3	105	1.02	10.0-160			17.0	38
Hexachloro-1,3-butadiene	0.192	U	0.135	0.173	70.5	89.8	1.02	10.0-160			24.1	40
Isopropylbenzene	0.192	U	0.164	0.194	85.2	101	1.02	10.0-155			16.8	38
p-Isopropyltoluene	0.192	U	0.155	0.183	80.5	95.3	1.02	10.0-160			16.9	40
2-Butanone (MEK)	0.957	U	1.29	1.13	135	118	1.02	10.0-160			13.4	40
Methylene Chloride	0.192	0.0103	0.219	0.255	109	127	1.02	10.0-141			15.2	37
4-Methyl-2-pentanone (MIBK)	0.957	U	1.29	1.25	135	131	1.02	10.0-160			2.95	35
Methyl tert-butyl ether	0.192	U	0.167	0.167	86.7	86.7	1.02	11.0-147			0.000	35
Naphthalene	0.192	U	0.119	0.142	62.1	73.8	1.02	10.0-160			17.1	36
n-Propylbenzene	0.192	U	0.168	0.191	87.5	99.2	1.02	10.0-158			12.6	38
Styrene	0.192	U	0.173	0.191	89.8	99.2	1.02	10.0-160			9.92	40
1,1,1,2-Tetrachloroethane	0.192	U	0.180	0.191	93.7	99.2	1.02	10.0-149			5.67	39

L1778061-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778061-01 09/20/24 03:07 MS 4122937-3 09/20/24 05:35 MS 4122937-4 09/20/24 05:54

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1,2,2-Tetrachloroethane	0.192	U	0.167	0.164	86.7	85.2	1.02	10.0-160			1.82	35
1,1,2-Trichlorotrifluoroethane	0.192	U	0.201	0.270	105	141	1.02	10.0-160			29.3	36
Tetrachloroethene	0.192	U	0.185	0.219	96.1	114	1.02	10.0-156			17.1	39
Toluene	0.192	U	0.182	0.206	94.5	107	1.02	10.0-156			12.4	38
1,2,3-Trichlorobenzene	0.192	U	0.124	0.156	64.5	81.3	1.02	10.0-160			23.1	40
1,2,4-Trichlorobenzene	0.192	U	0.150	0.176	77.9	91.4	1.02	10.0-160			16.0	40
1,1,1-Trichloroethane	0.192	U	0.198	0.242	103	126	1.02	10.0-144			19.8	35
1,1,2-Trichloroethane	0.192	U	0.135	0.138	70.5	72.1	1.02	10.0-160			2.19	35
Trichloroethene	0.192	U	0.224	0.261	116	136	1.02	10.0-156			15.5	38
Trichlorofluoromethane	0.192	U	0.186	0.234	96.9	122	1.02	10.0-160			22.9	40
1,2,3-Trichloropropane	0.192	U	0.203	0.197	105	102	1.02	10.0-156			3.01	35
1,2,4-Trimethylbenzene	0.192	U	0.161	0.180	83.6	93.7	1.02	10.0-160			11.5	36
1,2,3-Trimethylbenzene	0.192	U	0.167	0.180	86.7	93.7	1.02	10.0-160			7.79	36
1,3,5-Trimethylbenzene	0.192	U	0.170	0.186	88.3	96.9	1.02	10.0-160			9.28	38
Vinyl chloride	0.192	U	0.158	0.189	82.0	98.4	1.02	10.0-160			18.2	37
Xylenes, Total	0.575	0.00138	0.518	0.590	89.8	102	1.02	10.0-160			13.0	38
(S) Toluene-d8					*101*	*101*		*75.0-131*				
(S) 4-Bromofluorobenzene					*101*	*104*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*102*	*102*		*70.0-130*				

Method an M

M 4123782-1 09/24/24 13:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		0.733	4.00
(S) o-Terphenyl	*55.6*			*18.0-148*

Laborator Contro Samp e LCS

LCS 4123782-2 09/24/24 13:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C12-C22 Hydrocarbons	50.0	25.6	51.2	50.0-150	
(S) o-Terphenyl			*46.7*	*18.0-148*	

L1779902-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1779902-01 09/24/24 22:18 MS 4123782-3 09/24/24 22:32 MS 4123782-4 09/24/24 22:45

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C12-C22 Hydrocarbons	47.8	3.41	23.7	9.05	42.4	11.8	1	50.0-150	6	3 6	89.4	20
(S) o-Terphenyl					*32.8*	*17.1*		*18.0-148*		2		

Method an M

M 4123287-1 09/21/24 16:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2,4-D	U		0.00702	0.0700
Dalapon	U		0.0113	0.0700
2,4-DB	U		0.0297	0.0700
Dicamba	U		0.0157	0.0700
Dichloroprop	U		0.0245	0.0700
Dinoseb	U		0.00697	0.0700
MCPA	U		0.443	6.50
MCPP	U		0.367	6.50
2,4,5-T	U		0.00852	0.0700
2,4,5-TP (Silvex)	U		0.0107	0.0700
(S) 2,4-Dichlorophenyl Acetic Acid	*73.1*			*22.0-132*

Laborator Contro Samp e LCS

LCS 4123287-2 09/21/24 16:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
2,4-D	0.0833	0.0700	84.0	40.0-120	
Dalapon	0.0833	0.0720	86.4	15.0-120	
2,4-DB	0.0833	0.0604	72.5	25.0-143	
Dicamba	0.0833	0.0558	67.0	43.0-120	
Dichloroprop	0.0833	0.0579	69.5	32.0-129	
Dinoseb	0.0833	0.0190	22.8	10.0-120	
MCPA	8.33	8.15	97.8	31.0-121	
MCPP	8.33	4.54	54.5	28.0-133	
2,4,5-T	0.0833	0.0649	77.9	41.0-120	
2,4,5-TP (Silvex)	0.0833	0.0555	66.6	42.0-120	
(S) 2,4-Dichlorophenyl Acetic Acid			*65.9*	*22.0-132*	

L1778392-18 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778392-18 09/21/24 20:08 MS 4123287-3 09/21/24 20:20 MS 4123287-4 09/21/24 20:31

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4-D	0.167	U	0.194	0.217	116	128	1	10.0-160	P	P	11.1	24
Dalapon	0.167	U	0.125	0.123	75.3	72.7	1	10.0-121			2.28	27
2,4-DB	0.167	U	0.287	0.725	173	430	1	10.0-160	5 P	E 3 5 P	86.4	22

CONFIDENTIAL
No reliance without separate reliance agreement.

L1778392-18 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778392-18 09/21/24 20:08 MS 4123287-3 09/21/24 20:20 MS 4123287-4 09/21/24 20:31

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Dicamba	0.167	U	0.120	0.119	72.1	70.6	1	10.0-154			0.847	21
Dichloroprop	0.167	U	0.128	0.119	76.8	70.3	1	10.0-158			7.55	20
Dinoseb	0.167	U	0.122	0.116	73.1	68.9	1	10.0-120			4.76	40
MCPA	16.7	U	16.6	16.3	99.6	96.4	1	10.0-160		P	2.09	40
MCPP	16.7	U	10.8	11.0	65.1	65.2	1	10.0-160			1.30	40
2,4,5-T	0.167	U	0.124	0.120	74.5	71.1	1	10.0-157			3.49	20
2,4,5-TP (Silvex)	0.167	U	0.103	0.100	61.8	59.4	1	10.0-156			2.79	20
(S) 2,4-Dichlorophenyl Acetic Acid					*71.5*	*73.1*		*22.0-132*				

Method an M

M 4122767-1 09/21/24 00:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Azinphos-Methyl	U		0.0318	0.100
Bolstar (Sulprofos)	U		0.0149	0.100
Chlorpyrifos	U		0.0157	0.100
Coumaphos	U		0.0243	0.100
Demeton,-O and -S	U		0.00584	0.0700
Diazinon	U		0.0225	0.100
Dichlorvos	U		0.0300	0.100
Dimethoate	U		0.0334	0.100
Disulfoton	U		0.0254	0.100
EPN	U		0.0276	0.100
Ethoprop	U		0.0118	0.100
Ethyl Parathion	U		0.0164	0.100
Fensulfothion	U		0.0353	0.100
Fenthion	U		0.0133	0.100
Malathion	U		0.0179	0.100
Merphos	U		0.0232	0.100
Methyl parathion	U		0.0203	0.100
Mevinphos	U		0.0230	0.100
Naled	U		0.0480	0.100
Phorate	U		0.0210	0.100
Ronnel	U		0.0149	0.100
Stirophos	U		0.0178	0.100
Sulfotep	U		0.00986	0.100
TEPP	U		0.157	1.00
Tokuthion (Prothothiofos)	U		0.0150	0.100
Trichloronate	U		0.0201	0.100
(S) Triphenyl Phosphate	*91.3*			*36.0-121*

Laborator Contro Samp e LCS

LCS 4122767-2 09/21/24 01:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Azinphos-Methyl	0.333	0.296	88.9	58.0-125	
Bolstar (Sulprofos)	0.333	0.284	85.3	64.0-120	
Chlorpyrifos	0.333	0.302	90.7	62.0-120	
Coumaphos	0.333	0.306	91.9	60.0-120	
Demeton,-O and -S	0.167	0.148	88.6	59.0-120	
Diazinon	0.333	0.276	82.9	49.0-120	

Laborator Contro Samp e LCS

LCS 4122767-2 09/21/24 01:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dichlorvos	0.333	0.196	58.9	37.0-120	
Dimethoate	0.333	0.282	84.7	46.0-127	
Disulfoton	0.333	0.289	86.8	60.0-121	
EPN	0.333	0.282	84.7	60.0-121	
Ethoprop	0.333	0.296	88.9	59.0-120	
Ethyl Parathion	0.333	0.316	94.9	62.0-120	
Fensulfothion	0.333	0.274	82.3	58.0-123	
Fenthion	0.333	0.284	85.3	61.0-121	
Malathion	0.333	0.311	93.4	59.0-120	
Merphos	0.333	0.248	74.5	59.0-120	
Methyl parathion	0.333	0.286	85.9	63.0-120	
Mevinphos	0.333	0.234	70.3	50.0-120	
Naled	0.333	0.149	44.7	10.0-125	
Phorate	0.333	0.287	86.2	60.0-120	
Ronnel	0.333	0.282	84.7	62.0-120	
Stirophos	0.333	0.285	85.6	62.0-120	
Sulfotep	0.333	0.361	108	62.0-122	
TEPP	3.33	1.40	42.0	10.0-135	
Tokuthion (Prothothiofos)	0.333	0.291	87.4	63.0-120	
Trichloronate	0.333	0.307	92.2	62.0-120	
(S) Triphenyl Phosphate			*90.7*	*36.0-121*	

Method an M

M 4123878-1 09/24/24 14:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00376	0.0200
Alpha BHC	U		0.00368	0.0200
Beta BHC	U		0.00379	0.0200
Delta BHC	U		0.00346	0.0200
Gamma BHC	U		0.00344	0.0200
4,4-DDD	U		0.00370	0.0200
4,4-DDE	U		0.00366	0.0200
4,4-DDT	U		0.00627	0.0200
Dieldrin	U		0.00344	0.0200
Endosulfan I	U		0.00363	0.0200
Endosulfan II	U		0.00335	0.0200
Endosulfan sulfate	U		0.00364	0.0200
Endrin	U		0.00350	0.0200
Endrin aldehyde	U		0.00339	0.0200
Endrin ketone	U		0.00711	0.0200
Heptachlor	U		0.00428	0.0200
Heptachlor epoxide	U		0.00339	0.0200
Hexachlorobenzene	U		0.00346	0.0200
Methoxychlor	U		0.00484	0.0200
Chlordane	U		0.103	0.300
Toxaphene	U		0.124	0.400
(S) Decachlorobiphenyl	*87.7*			*10.0-135*
(S) Tetrachloro-m-xylene	*89.3*			*10.0-139*

Laborator Contro Samp e LCS

LCS 4123878-2 09/24/24 14:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0627	94.1	34.0-136	
Alpha BHC	0.0666	0.0620	93.1	34.0-139	
Beta BHC	0.0666	0.0599	89.9	34.0-133	
Delta BHC	0.0666	0.0507	76.1	34.0-135	
Gamma BHC	0.0666	0.0628	94.3	34.0-136	
4,4-DDD	0.0666	0.0644	96.7	33.0-141	
4,4-DDE	0.0666	0.0634	95.2	34.0-134	
4,4-DDT	0.0666	0.0631	94.7	30.0-143	
Dieldrin	0.0666	0.0639	95.9	35.0-137	
Endosulfan I	0.0666	0.0619	92.9	34.0-134	

Laborator Contro Samp e LCS

LCS 4123878-2 09/24/24 14:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	0.0666	0.0622	93.4	35.0-132	
Endosulfan sulfate	0.0666	0.0605	90.8	35.0-132	
Endrin	0.0666	0.0640	96.1	34.0-137	
Endrin aldehyde	0.0666	0.0602	90.4	23.0-121	
Endrin ketone	0.0666	0.0606	91.0	35.0-144	
Heptachlor	0.0666	0.0633	95.0	36.0-141	
Heptachlor epoxide	0.0666	0.0635	95.3	36.0-134	
Hexachlorobenzene	0.0666	0.0585	87.8	33.0-129	
Methoxychlor	0.0666	0.0614	92.2	28.0-150	
(S) Decachlorobiphenyl			*89.2*	*10.0-135*	
(S) Tetrachloro-m-xylene			*93.2*	*10.0-139*	

L1779430-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1779430-01 09/24/24 14:53 MS 4123878-3 09/24/24 15:02 MS 4123878-4 09/24/24 15:12

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0681	U	0.0539	0.0527	79.0	77.0	1	20.0-135			2.12	37
Alpha BHC	0.0681	U	0.0522	0.0539	76.6	78.7	1	27.0-140			3.10	35
Beta BHC	0.0681	U	0.0498	0.0496	73.2	72.5	1	23.0-141			0.413	37
Delta BHC	0.0681	U	0.0430	0.0433	63.0	63.2	1	21.0-138			0.715	35
Gamma BHC	0.0681	U	0.0531	0.0542	78.0	79.1	1	27.0-137			1.92	36
4,4-DDD	0.0681	U	0.0517	0.0510	75.9	74.5	1	15.0-152			1.40	39
4,4-DDE	0.0681	U	0.0550	0.0538	80.7	78.5	1	10.0-152			2.27	40
4,4-DDT	0.0681	U	0.0518	0.0518	76.0	75.7	1	10.0-151			0.000	40
Dieldrin	0.0681	U	0.0532	0.0540	78.1	78.8	1	17.0-145			1.34	37
Endosulfan I	0.0681	U	0.0534	0.0544	78.4	79.4	1	20.0-137			1.72	36
Endosulfan II	0.0681	U	0.0507	0.0499	74.4	73.0	1	15.0-141			1.43	37
Endosulfan sulfate	0.0681	U	0.0493	0.0479	72.4	70.0	1	15.0-143			2.96	38
Endrin	0.0681	U	0.0511	0.0521	75.0	76.1	1	19.0-143			1.99	37
Endrin aldehyde	0.0681	U	0.0492	0.0499	72.2	73.0	1	10.0-139			1.45	40
Endrin ketone	0.0681	U	0.0468	0.0477	68.6	69.7	1	17.0-149			1.96	38
Heptachlor	0.0681	U	0.0557	0.0563	81.7	82.3	1	22.0-138			1.10	37
Heptachlor epoxide	0.0681	U	0.0508	0.0511	74.5	74.6	1	22.0-138			0.605	36
Hexachlorobenzene	0.0681	U	0.0515	0.0526	75.6	76.9	1	25.0-126			2.17	35
Methoxychlor	0.0681	U	0.0547	0.0526	80.2	76.9	1	10.0-159			3.83	40
(S) Decachlorobiphenyl					*66.7*	*74.2*		*10.0-135*				
(S) Tetrachloro-m-xylene					*70.9*	*80.2*		*10.0-139*				

Method an M

M 4123820-2 09/24/24 10:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00539	0.0333
Acenaphthylene	U		0.00469	0.0333
Anthracene	U		0.00593	0.0333
Benzidine	U		0.0626	1.67
Benzo(a)anthracene	U		0.00587	0.0333
Benzo(b)fluoranthene	U		0.00621	0.0333
Benzo(k)fluoranthene	U		0.00592	0.0333
Benzo(g,h,i)perylene	U		0.00609	0.0333
Benzo(a)pyrene	U		0.00619	0.0333
Bis(2-chlorethoxy)methane	U		0.0100	0.333
Bis(2-chloroethyl)ether	U		0.0110	0.333
2,2-Oxybis(1-Chloropropane)	U		0.0144	0.333
4-Bromophenyl-phenylether	U		0.0117	0.333
2-Chloronaphthalene	U		0.00585	0.0333
4-Chlorophenyl-phenylether	U		0.0116	0.333
Chrysene	U		0.00662	0.0333
Dibenz(a,h)anthracene	U		0.00923	0.0333
3,3-Dichlorobenzidine	U		0.0123	0.333
2,4-Dinitrotoluene	U		0.00955	0.333
2,6-Dinitrotoluene	U		0.0109	0.333
Fluoranthene	U		0.00601	0.0333
Fluorene	U		0.00542	0.0333
Hexachlorobenzene	U		0.0118	0.333
Hexachloro-1,3-butadiene	U		0.0112	0.333
Hexachlorocyclopentadiene	U		0.0175	0.333
Hexachloroethane	U		0.0131	0.333
Indeno(1,2,3-cd)pyrene	U		0.00941	0.0333
Isophorone	U		0.0102	0.333
Naphthalene	U		0.00836	0.0333
Nitrobenzene	U		0.0116	0.333
n-Nitrosodimethylamine	U		0.0494	0.333
n-Nitrosodiphenylamine	U		0.0252	0.333
n-Nitrosodi-n-propylamine	U		0.0111	0.333
Phenanthrene	U		0.00661	0.0333
Benzylbutyl phthalate	U		0.0104	0.333
Bis(2-ethylhexyl)phthalate	U		0.0422	0.333
Di-n-butyl phthalate	U		0.0114	0.333
Diethyl phthalate	U		0.0110	0.333
Dimethyl phthalate	U		0.0706	0.333
Di-n-octyl phthalate	U		0.0225	0.333

Method an M

M 4123820-2 09/24/24 10:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.00648	0.0333
1,2,4-Trichlorobenzene	U		0.0104	0.333
4-Chloro-3-methylphenol	U		0.0108	0.333
2-Chlorophenol	U		0.0110	0.333
2,4-Dichlorophenol	U		0.00970	0.333
2,4-Dimethylphenol	U		0.00870	0.333
4,6-Dinitro-2-methylphenol	U		0.0755	0.333
2,4-Dinitrophenol	U		0.0779	0.333
2-Nitrophenol	U		0.0119	0.333
4-Nitrophenol	U		0.0104	0.333
Pentachlorophenol	U		0.00896	0.333
Phenol	U		0.0134	0.333
2,4,6-Trichlorophenol	U		0.0107	0.333
(S) 2-Fluorophenol	*75.7*			*12.0-120*
(S) Phenol-d5	*67.1*			*10.0-120*
(S) Nitrobenzene-d5	*66.4*			*10.0-122*
(S) 2-Fluorobiphenyl	*66.1*			*15.0-120*
(S) 2,4,6-Tribromophenol	*61.0*			*10.0-127*
(S) p-Terphenyl-d14	*82.0*			*10.0-120*

Laborator Contro Samp e LCS

LCS 4123820-1 09/24/24 10:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.428	64.3	38.0-120	
Acenaphthylene	0.666	0.432	64.9	40.0-120	
Anthracene	0.666	0.497	74.6	42.0-120	
Benzidine	1.33	0.595	44.7	10.0-120	
Benzo(a)anthracene	0.666	0.524	78.7	44.0-120	
Benzo(b)fluoranthene	0.666	0.528	79.3	43.0-120	
Benzo(k)fluoranthene	0.666	0.546	82.0	44.0-120	
Benzo(g,h,i)perylene	0.666	0.491	73.7	43.0-120	
Benzo(a)pyrene	0.666	0.549	82.4	45.0-120	
Bis(2-chlorethoxy)methane	0.666	0.372	55.9	20.0-120	
Bis(2-chloroethyl)ether	0.666	0.384	57.7	16.0-120	
2,2-Oxybis(1-Chloropropane)	0.666	0.393	59.0	23.0-120	
4-Bromophenyl-phenylether	0.666	0.486	73.0	40.0-120	
2-Chloronaphthalene	0.666	0.412	61.9	35.0-120	

Laborator Contro Samp e LCS

LCS 4123820-1 09/24/24 10:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Chlorophenyl-phenylether	0.666	0.448	67.3	40.0-120	
Chrysene	0.666	0.531	79.7	43.0-120	
Dibenz(a,h)anthracene	0.666	0.533	80.0	44.0-120	
3,3-Dichlorobenzidine	1.33	0.991	74.5	28.0-120	
2,4-Dinitrotoluene	0.666	0.547	82.1	45.0-120	
2,6-Dinitrotoluene	0.666	0.505	75.8	42.0-120	
Fluoranthene	0.666	0.528	79.3	44.0-120	
Fluorene	0.666	0.470	70.6	41.0-120	
Hexachlorobenzene	0.666	0.468	70.3	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.344	51.7	15.0-120	
Hexachlorocyclopentadiene	0.666	0.235	35.3	15.0-120	
Hexachloroethane	0.666	0.379	56.9	17.0-120	
Indeno(1,2,3-cd)pyrene	0.666	0.498	74.8	45.0-120	
Isophorone	0.666	0.358	53.8	23.0-120	
Naphthalene	0.666	0.338	50.8	18.0-120	
Nitrobenzene	0.666	0.378	56.8	17.0-120	
n-Nitrosodimethylamine	0.666	0.493	74.0	10.0-125	
n-Nitrosodiphenylamine	0.666	0.488	73.3	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.419	62.9	26.0-120	
Phenanthrene	0.666	0.496	74.5	42.0-120	
Benzylbutyl phthalate	0.666	0.591	88.7	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.582	87.4	41.0-120	
Di-n-butyl phthalate	0.666	0.551	82.7	43.0-120	
Diethyl phthalate	0.666	0.497	74.6	43.0-120	
Dimethyl phthalate	0.666	0.483	72.5	43.0-120	
Di-n-octyl phthalate	0.666	0.578	86.8	40.0-120	
Pyrene	0.666	0.528	79.3	41.0-120	
1,2,4-Trichlorobenzene	0.666	0.339	50.9	17.0-120	
4-Chloro-3-methylphenol	0.666	0.400	60.1	28.0-120	
2-Chlorophenol	0.666	0.417	62.6	28.0-120	
2,4-Dichlorophenol	0.666	0.395	59.3	25.0-120	
2,4-Dimethylphenol	0.666	0.367	55.1	15.0-120	
4,6-Dinitro-2-methylphenol	0.666	0.645	96.8	16.0-120	
2,4-Dinitrophenol	0.666	0.552	82.9	10.0-120	
2-Nitrophenol	0.666	0.418	62.8	20.0-120	
4-Nitrophenol	0.666	0.549	82.4	27.0-120	
Pentachlorophenol	0.666	0.441	66.2	29.0-120	
Phenol	0.666	0.431	64.7	28.0-120	
2,4,6-Trichlorophenol	0.666	0.426	64.0	37.0-120	
(S) 2-Fluorophenol			*70.0*	*12.0-120*	

Laborator Contro Samp e LCS

LCS 4123820-1 09/24/24 10:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) Phenol-d5			*64.6*	*10.0-120*	
(S) Nitrobenzene-d5			*52.3*	*10.0-122*	
(S) 2-Fluorobiphenyl			*62.8*	*15.0-120*	
(S) 2,4,6-Tribromophenol			*71.9*	*10.0-127*	
(S) p-Terphenyl-d14			*79.0*	*10.0-120*	

L1778896-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778896-01 09/24/24 13:57 MS 4123820-3 09/24/24 14:18 MS 4123820-4 09/24/24 14:40

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.699	U	0.554	0.559	79.3	80.7	50	18.0-120			0.763	32
Acenaphthylene	0.699	U	0.561	0.564	80.2	81.4	50	25.0-120			0.567	32
Anthracene	0.699	U	0.626	0.624	89.5	90.2	50	22.0-120			0.170	29
Benzidine	1.40	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	40
Benzo(a)anthracene	0.699	0.534	1.00	0.896	67.0	52.3	50	25.0-120			11.2	29
Benzo(b)fluoranthene	0.699	0.814	1.32	1.23	72.0	60.4	50	19.0-122			6.67	31
Benzo(k)fluoranthene	0.699	U	0.826	0.807	118	117	50	23.0-120			2.34	30
Benzo(g,h,i)perylene	0.699	0.413	0.811	0.696	57.0	40.8	50	10.0-120			15.4	33
Benzo(a)pyrene	0.699	0.603	1.12	1.04	73.3	63.0	50	24.0-120			7.00	30
Bis(2-chlorethoxy)methane	0.699	U	0.563	0.579	80.5	83.6	50	10.0-120			2.79	34
Bis(2-chloroethyl)ether	0.699	U	0.592	0.610	84.7	88.0	50	10.0-120			3.01	40
2,2-Oxybis(1-Chloropropane)	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	40
4-Bromophenyl-phenylether	0.699	U	U	U	0.000	0.000	50	27.0-120	6	6	0.000	30
2-Chloronaphthalene	0.699	U	0.557	0.543	79.6	78.4	50	20.0-120			2.51	32
4-Chlorophenyl-phenylether	0.699	U	U	U	0.000	0.000	50	24.0-120	6	6	0.000	29
Chrysene	0.699	0.428	1.06	0.965	90.7	77.6	50	21.0-120			9.53	29
Dibenz(a,h)anthracene	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	32
3,3-Dichlorobenzidine	1.40	U	0.987	1.06	70.4	76.9	50	10.0-120			7.36	34
2,4-Dinitrotoluene	0.699	U	U	0.553	0.000	79.9	50	30.0-120	6	3	200	31
2,6-Dinitrotoluene	0.699	U	U	U	0.000	0.000	50	25.0-120	6	6	0.000	31
Fluoranthene	0.699	1.05	1.25	1.08	29.5	5.21	50	18.0-126		6	14.5	32
Fluorene	0.699	U	0.574	0.619	82.1	89.4	50	25.0-120			7.66	30
Hexachlorobenzene	0.699	U	U	U	0.000	0.000	50	27.0-120	6	6	0.000	28
Hexachloro-1,3-butadiene	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	38
Hexachlorocyclopentadiene	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	40
Hexachloroethane	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	40
Indeno(1,2,3-cd)pyrene	0.699	U	0.737	0.646	105	93.3	50	10.0-120			13.2	32
Isophorone	0.699	U	U	0.546	0.000	78.8	50	13.0-120	6	3	200	34

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No reliance without separate reliance agreement.

L1778896-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778896-01 09/24/24 13:57 MS 4123820-3 09/24/24 14:18 MS 4123820-4 09/24/24 14:40

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg				%	%		%			%	%
Naphthalene	0.699	U	0.544	0.531	77.8	76.7	50	10.0-120			2.37	35
Nitrobenzene	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	36
n-Nitrosodimethylamine	0.699	U	U	U	0.000	0.000	50	10.0-127	6	6	0.000	40
n-Nitrosodiphenylamine	0.699	U	U	U	0.000	0.000	50	17.0-120	6	6	0.000	29
n-Nitrosodi-n-propylamine	0.699	U	0.622	U	89.1	0.000	50	10.0-120		3 6	200	37
Phenanthrene	0.699	0.352	0.724	0.665	104	96.0	50	17.0-120			8.56	31
Benzylbutyl phthalate	0.699	U	0.675	0.814	96.7	117	50	23.0-120			18.5	30
Bis(2-ethylhexyl)phthalate	0.699	U	U	U	0.000	0.000	50	17.0-126	6	6	0.000	30
Di-n-butyl phthalate	0.699	U	0.606	0.663	86.8	95.7	50	30.0-120			8.87	29
Diethyl phthalate	0.699	U	0.584	0.669	0.000	96.6	50	26.0-120	6	3	200	28
Dimethyl phthalate	0.699	U	U	U	81.9	81.4	50	25.0-120			1.50	29
Di-n-octyl phthalate	0.699	U	U	U	0.000	0.000	50	21.0-123	6	6	0.000	29
Pyrene	0.699	0.981	1.26	1.06	40.4	11.7	50	16.0-121		6	17.4	32
1,2,4-Trichlorobenzene	0.699	U	0.570	U	81.6	0.000	50	12.0-120		3 6	200	37
4-Chloro-3-methylphenol	0.699	U	0.596	0.593	85.3	85.6	50	15.0-120			0.536	30
2-Chlorophenol	0.699	U	U	U	0.000	0.000	50	15.0-120	6	6	0.000	37
2,4-Dichlorophenol	0.699	U	0.562	0.568	80.4	82.1	50	20.0-120			1.13	31
2,4-Dimethylphenol	0.699	U	0.559	0.563	79.9	81.3	50	10.0-120			0.758	33
4,6-Dinitro-2-methylphenol	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	39
2,4-Dinitrophenol	0.699	U	U	U	0.000	0.000	50	10.0-121	6	6	0.000	40
2-Nitrophenol	0.699	U	0.639	U	91.5	0.000	50	12.0-120		3 6	200	39
4-Nitrophenol	0.699	U	U	U	0.000	0.000	50	10.0-137	6	6	0.000	32
Pentachlorophenol	0.699	U	U	U	0.000	0.000	50	10.0-160	6	6	0.000	31
Phenol	0.699	U	U	U	0.000	0.000	50	12.0-120	6	6	0.000	38
2,4,6-Trichlorophenol	0.699	U	U	U	0.000	0.000	50	19.0-120	6	6	0.000	32
(S) 2-Fluorophenol					*82.1*	*85.6*		*12.0-120*	7	7		
(S) Phenol-d5					*81.5*	*77.3*		*10.0-120*	7	7		
(S) Nitrobenzene-d5					*82.7*	*86.2*		*10.0-122*	7	7		
(S) 2-Fluorobiphenyl					*69.6*	*78.2*		*15.0-120*	7	7		
(S) 2,4,6-Tribromophenol					*61.2*	*65.6*		*10.0-127*	7	7		
(S) p-Terphenyl-d14					*88.4*	*92.9*		*10.0-120*	7	7		

Sample Narrative:

OS: Dilution due to matrix impact during extract concentration procedure.

u de to ead ng and Understand ng our Laborator eport

The nformat on be o s des gned to better e p a n the ar ous terms used n our report of ana t ca resu ts from the Laborator Th s s not ntended as a comprehens e e p anat on, and f ou ha e add t ona uest ons p ease contact our project representat e

esu ts sc a mer - Informat on that ma be pro ded b the customer, and conta ned th n th s report, nc ude Perm t L m ts, Project ame, Samp e I , Samp e Matr , Samp e Preser at on, e d an s, e d Sp es, e d up cates, n-S te ata, Samp ng Co ect on ates/T mes, and Samp ng Locat on esu ts re ate to the accurac of th s nformat on pro ded, and as the samp es are rece ed

Abbre at ons and ef n t ons

dr	esu ts are reported based on the dr e ght of the samp e th s on be present on a dr report bas s for so s
M L	Method etect on L m t
M L dr	Method etect on L m t
L	eported etect on L m t
L dr	eported etect on L m t
ec	eco er
P	e at e Percent fference
S	Samp e e er roup
S	Surrogate Surrogate Standard - Ana tes added to e er b an , samp e, Laborator Contro Samp e/ up cate and Matr Sp e/ up cate used to e a uate ana t ca eff c enc b measur ng reco er Surrogates are not e pected to be detected n a en ronmenta med a
U	ot detected at the eport ng L m t or M L here app cab e
Ana te	The name of the part cu ar compound or ana s s performed Some Ana ses and Methods ha e mu t p e ana tes reported
ut on	If the samp e matr conta ns an nterfer ng mater a , the samp e preparat on o ume or e ght a ues d ffer from the standard, or f concentrat ons of ana tes n the samp e are h gher than the h ghest m t of concentrat on that the aborator can accurate report, the samp e ma be d uted for ana s s If a a ue d fferent than 1 s used n th s f e d, the resu t reported has a read been corrected for th s factor
L m ts	These are the target reco er ranges or d fference a ue that the aborator has h stor ca determ ned as norma for the method and ana te be ng reported Successfu C Samp e ana s s target a ana tes reco ered or dup cated th n these ranges
r g na Samp e	The non-sp ed samp e n the prep batch used to determ ne the e at e Percent fference P from a ua t contro samp e The r g na Samp e ma not be nc uded th n the reported S
ua f er	Th s co umn pro des a etter and/or number des gnat on that corresponds to add t ona nformat on concern ng the resu t reported If a ua f er s present, a def n t on per ua f er s pro ded th n the ossar and ef n t ons page and potent a a d scuss on of poss b e mp cat ons of the ua f er n the Case arrat e f app cab e
esu t	The actua ana t ca f na resu t corrected for an samp e spec f c character st cs reported for our samp e If there as no measurab e resu t returned for a spec f c ana te, the resu t n th s co umn ma state ot etected or L e o etectab e Le e s The nformat on n the resu ts co umn shou d a a s be accompan ed b e ther an M L Method etect on L m t or L eport ng etect on L m t that def nes the o est a ue that the aborator cou d detect or report for th s ana te
Uncerta nt ad ochem str	Conf dence e e of 2 s gma
Case arrat e Cn	A br ef d scuss on about the nc uded samp e resu ts, nc ud ng a d scuss on of an non-conformances to protoco obser ed e ther at samp e rece pt b the aborator from the f e d or dur ng the ana t ca process If present, there be a sect on n the Case arrat e to d scuss the mean ng of an data ua f ers used n the report
ua t Contro Summar c	Th s sect on of the report nc udes the resu ts of the aborator ua t contro ana ses re u red b procedure or ana t ca methods to ass st n e a uat ng the a d t of the resu ts reported for our samp es These ana ses are not be ng performed on our samp es t p ca , but on aborator generated mater a
Samp e Cha n of Custod Sc	Th s s the document created n the f e d hen our samp es ere n t a co ected Th s s used to er f the t me and date of co ect on, the person co ect ng the samp es, and the ana ses that the aborator s re uested to perform Th s cha n of custod a so documents a persons e c ud ng commerc a sh ppers that ha e had contro or possess on of the samp es from the t me of co ect on unt de er to the aborator for ana s s
Samp e esu ts Sr	Th s sect on of our report pro de the resu ts of a test ng performed on our samp es These resu ts are pro ded b samp e I and are separated b the ana ses performed on each samp e The header ne of each ana s s sect on for each samp e pro de the name and method number for the ana s s reported
Samp e Summar Ss	Th s sect on of the Ana t ca eport def nes the spec f c ana ses performed for each samp e I , nc ud ng the dates and t mes of preparat on and/or ana s s

ua f er escr pt on

	The same ana te s found n the assoc ated b an
E	The ana te concentrat on e ceeds the upper m t of the ca brat on range of the nstrument estab shed b the n t a ca brat on ICAL
	The dent f cat on of the ana te s acceptab e the reported a ue s an est mate
2	Surrogate reco er m ts ha e been e ceeded a ues are outs de o er contro m ts
3	The assoc ated batch C as outs de the estab shed ua t contro range for prec s on
4	The assoc ated batch C as outs de the estab shed ua t contro range for accurac
5	The samp e matr nterfered th the ab t to ma e an accurate determ nat on sp e a ue s h gh
6	The samp e matr nterfered th the ab t to ma e an accurate determ nat on sp e a ue s o
7	Surrogate reco er cannot be used for contro m t e a uat on due to d ut on

ua f er	escr pt on
P	P bet een the pr mar and conf rmator ana s s e ceeded 40

CONFIDENTIAL
No reliance without separate reliance agreement.

ACC E ITATI S L CATI S

Pace Ana t ca at ona 12065 Lebanon d Mount u et, T 37122

Ala ama		Ne raska	N OS
Alaska		Nevada	N
Ari ona	A	Ne ampshire	
Arkansas		Ne ersey N LAP	N
California		Ne Me ico	N
Colorado	N	Ne ork	
Connecticut	P	North Carolina	nv
lorida		North Carolina	D
eorgia	N LAP	North Carolina	
eorgia		North Dakota	R
daho	N	Ohio AP	CL
llinois		Oklahoma	
ndiana	C N	Oregon	N
o a		Pennsylvania	
ansas		Rhode sland	LAO
entucky		South Carolina	
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Louisiana	A	ennessee	
Louisiana	LA	e as	
Maine	N	e as	LAB
Maryland		Utah	N
Massachusetts	M N	ermont	
Michigan		irginia	
Minnesota		ashington	C
Mississippi	N	est irginia	
Missouri		isconsin	
Montana	C R	yoming	A LA
A LA SO	.	A A LAP LLC MLAP	
A LA SO	.	DOD	.
Canada	.	USDA	P
PA Crypto	N		

Drinking ater Underground Storage anks A uatic o icity Chemical Micro iological Mold aste ater n a Accreditation not applica le
Not all certifications held y the la oratory are applica le to the results reported in the attached report.
Accreditation is only applica le to the test methods specified on each scope of accreditation held y Pace Analytical.

Company Name/Address:
Tetra Tech EMI - Houston, TX

1500 CityWest Boulevard
Suite 1000
Houston, TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to:
Diana Eldam/Manuela Pastrano

Email To:
manuela.pastrano@tetratech.com;diana.eldam

Project Description:
DR Horton - (COR) Keller Crossing Phase II

City/State Collected:

Please Circle: PT MT CT ET

Phone: 832-251-5160

Client Project #

Lab Project #
TETRAHTX-KELLER

Collected by (print):
Janine Angement

Site/Facility ID #

P.O. #

Collected by (signature):
Immediately
Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
✓ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	DROCA, SV8270 8ozCl-NoPres	GROCA 40mlAmb/MeOH10ml/Syr	MRCRA8 8ozCl-NoPres	SV8081,SV8141,SV8151 8ozCl-NoPres	V8260 40mlAmb/MeOH10ml/Syr	Remarks	Sample # (lab only)
Area15-Comp	Comp	SS	0-0.5	9/18/24	1020	3	X	X	X	X	X		-01
Area15-1-0.5	Grab	SS	0-0.5		0925							Hold Sample	-02
Area15-1-2		SS	1-2		0930								-03
Area15-2-0.5		SS	0-0.5		0935								-04
Area15-2-2		SS	1-2		0940								-05
Area15-3-0.5		SS	0-0.5		0945								-06
Area15-3-2		SS	1-2		0950								-07
Area15-4-0.5		SS	0-0.5		0955								-08
Area15-4-2		SS	1-2		1000								-09
Area15-5-0.5		SS	0-0.5		1005								-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: All discrete soil samples will be placed on hold for the same analyses at the lab, pending the results of the Composite Soil Sample

pH ____ Temp ____
Flow ____ Other ____

Samples returned via:
__ UPS __ FedEx __ Courier ____

Tracking # 4102 9169 8100

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # LCP9430
1174

Acctnum: TETRAHTX
Template: T259305
Prelogin: P1097763
PM: 3564 - Chad A Upchurch
PB:

Shipped Via: FedEX Standard

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	9/18/24	1445		TL49	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
				2.1 to J=24 33	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
				9/19/24 0840	

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No reliance without separate reliance agreement.

Company Name/Address:
Tetra Tech EMI - Houston, TX

1500 CityWest Boulevard
Suite 1000
Houston, TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to:
Diana Eldam/Manuela Pastrano

Email To:
manuela.pastrano@tetratech.com;diana.eldam

Project Description:
DR Horton - (COR) Keller Crossing Phase II

City/State Collected:

Please Circle: PT MT CT ET

Phone: 832-251-5160

Client Project #

Lab Project #
TETRAHTX-KELLER

Collected by (print):
Jaime Argüelles

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
✓ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N___ Y___

No. of Cntrs

Analysis / Container / Preservation

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	DROCA, SV8270 8ozClr-NoPres	GROCA 40mlAmb/MeOH10ml/Syr	MRCRA8 8ozClr-NoPres	SV8081,SV8141,SV8151 8ozClr-NoPres	V8260 40mlAmb/MeOH10ml/Syr	Remarks	Sample # (lab only)
Area 15-5-2	Grab	SS	1-2	9/18/24	1015	3						Hold Sample - 11	
		SS											
		SS											
		SS											
		SS											
		SS											
		SS											
		SS											
		SS											
		SS											

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1179430

Table #

Acctnum: TETRAHTX

Template: T259305

Prelogin: P1097763

PM: 3564 - Chad A Upchurch

PB:

Shipped Via: FedEX Standard

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: See page 1 remarks.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR	
	9/18/24	1445			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/19/24 Time: 0900	Hold: Condition: NCF / OK

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ANALYTICAL REPORT

September 25, 2024

Tetra Tech EMI - Houston, TX

Samp e e er roup: L1779391

Samp es ece ed: 09/19/2024

Project umber:

escr pt on: Horton - C e er Cross ng Phase II

eport To: ana E dam/Manue a Pastrano
1500 C t est ou e ard
Su te 1000
Houston, TX 77042

Ent re eport e e ed :

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

AREA 16-COMP L1779391-01 5

Qc: Quality Control Summary 10

Total Solids by Method 2540 G-2011 10

Mercury by Method 7471A 11

Metals (ICP) by Method 6010D 12

Volatile Organic Compounds (GC) by Method 8015 14

Volatile Organic Compounds (GC/MS) by Method 8260B 15

Semi-Volatile Organic Compounds (GC) by Method 8015 21

Chlorinated Acid Herbicides (GC) by Method 8151 22

OP Pesticides by Method 8141 24

Pesticides (GC) by Method 8081 26

Semi Volatile Organic Compounds (GC/MS) by Method 8270C 28

Gl: Glossary of Terms 33

Al: Accreditations & Locations 35

Sc: Sample Chain of Custody 36

A EA 16-C MP L1779391-01 So d

Collected by: Janine Angenent
Collected date/time: 09/18/24 09:20
Received date/time: 09/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2366319	1	09/20/24 09:29	09/20/24 09:46	MT	Mt. Juliet, TN
Mercury by Method 7471A	WG2366424	1	09/20/24 14:09	09/21/24 10:38	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2366513	1	09/22/24 11:14	09/23/24 16:53	SA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG2366163	27.8	09/18/24 09:20	09/20/24 02:25	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2366229	1.11	09/18/24 09:20	09/20/24 00:37	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG2368266	2	09/24/24 08:07	09/24/24 22:59	KKS	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151	WG2365909	1	09/20/24 06:27	09/21/24 21:50	NWH	Mt. Juliet, TN
OP Pesticides by Method 8141	WG2365773	1	09/20/24 08:11	09/21/24 10:06	MEW	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG2368272	1	09/24/24 09:33	09/24/24 16:01	MEW	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2367359	2	09/23/24 15:57	09/24/24 15:02	JRM	Mt. Juliet, TN

A samp e a uots ere rece ed at the correct temperature, n the proper conta ners, th the appropr ate preser at es, and th n method spec f ed ho d ng t mes, un ess ua f ed or notated th n the report here app cab e, a M L L and L L a ues reported for en ronmenta samp es ha e been corrected for the d ut on factor used n the ana s s A Method and atch ua t Contro are th n estab shed cr ter a e cept here addressed n th s case narrat e, a non-conformance form or proper ua f ed th n the samp e resu ts m d g ta s gnature be o , l aff rm to the best of m no edge, a prob ems/anoma es obser ed b the aborator as ha ng the potent a to affect the ua t of the data ha e been dent f ed b the aborator , and no nformat on or data ha e been no ng thhe d that ou d affect the ua t of the data

Chad A Upchurch
Project Manager

Tota So ds b Method 2540 -2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.9		1	09/20/2024 09:46	WG2366319

Mercur b Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0409		0.0184	0.0408	1	09/21/2024 10:38	WG2366424

Meta s ICP b Method 6010

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.90		0.529	2.04	1	09/23/2024 16:53	WG2366513
Barium	151		0.0870	0.511	1	09/23/2024 16:53	WG2366513
Cadmium	0.218		0.0481	0.511	1	09/23/2024 16:53	WG2366513
Chromium	21.3		0.136	1.02	1	09/23/2024 16:53	WG2366513
Lead	9.62		0.212	0.511	1	09/23/2024 16:53	WG2366513
Selenium	U		0.780	2.04	1	09/23/2024 16:53	WG2366513
Silver	U		0.130	1.02	1	09/23/2024 16:53	WG2366513

o at e rgan c Compounds C b Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	2.10		0.960	2.89	27.8	09/20/2024 02:25	WG2366163
(S) a,a,a-Trifluorotoluene(FID)	*99.6*			*77.0-120*		*09/20/2024 02:25*	WG2366163

o at e rgan c Compounds C/MS b Method 8260

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0767	4	0.0421	0.0577	1.11	09/20/2024 00:37	WG2366229
Acrylonitrile	U		0.00417	0.0145	1.11	09/20/2024 00:37	WG2366229
Benzene	U		0.000539	0.00115	1.11	09/20/2024 00:37	WG2366229
Bromobenzene	U		0.00104	0.0145	1.11	09/20/2024 00:37	WG2366229
Bromodichloromethane	U		0.000837	0.00289	1.11	09/20/2024 00:37	WG2366229
Bromoform	U		0.00135	0.0289	1.11	09/20/2024 00:37	WG2366229
Bromomethane	U		0.00228	0.0145	1.11	09/20/2024 00:37	WG2366229
n-Butylbenzene	U		0.00606	0.0145	1.11	09/20/2024 00:37	WG2366229
sec-Butylbenzene	U	4	0.00333	0.0145	1.11	09/20/2024 00:37	WG2366229
tert-Butylbenzene	U	4	0.00225	0.00577	1.11	09/20/2024 00:37	WG2366229
Carbon tetrachloride	U		0.00104	0.00577	1.11	09/20/2024 00:37	WG2366229
Chlorobenzene	U		0.000242	0.00289	1.11	09/20/2024 00:37	WG2366229
Chlorodibromomethane	U		0.000706	0.00289	1.11	09/20/2024 00:37	WG2366229
Chloroethane	U		0.00197	0.00577	1.11	09/20/2024 00:37	WG2366229
Chloroform	U		0.00119	0.00289	1.11	09/20/2024 00:37	WG2366229
Chloromethane	U		0.00502	0.0145	1.11	09/20/2024 00:37	WG2366229
2-Chlorotoluene	U		0.000998	0.00289	1.11	09/20/2024 00:37	WG2366229
4-Chlorotoluene	U		0.000520	0.00577	1.11	09/20/2024 00:37	WG2366229
1,2-Dibromo-3-Chloropropane	U		0.00450	0.0289	1.11	09/20/2024 00:37	WG2366229
1,2-Dibromoethane	U		0.000748	0.00289	1.11	09/20/2024 00:37	WG2366229
Dibromomethane	U		0.000866	0.00577	1.11	09/20/2024 00:37	WG2366229
1,2-Dichlorobenzene	U		0.000491	0.00577	1.11	09/20/2024 00:37	WG2366229
1,3-Dichlorobenzene	U		0.000693	0.00577	1.11	09/20/2024 00:37	WG2366229
1,4-Dichlorobenzene	U		0.000808	0.00577	1.11	09/20/2024 00:37	WG2366229
Dichlorodifluoromethane	U		0.00186	0.00577	1.11	09/20/2024 00:37	WG2366229
1,1-Dichloroethane	U		0.000567	0.00289	1.11	09/20/2024 00:37	WG2366229

o at e rgan c Compounds C/MS b Method 8260

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000749	0.00289	1.11	09/20/2024 00:37	WG2366229
1,1-Dichloroethene	U		0.000700	0.00289	1.11	09/20/2024 00:37	WG2366229
cis-1,2-Dichloroethene	U		0.000848	0.00289	1.11	09/20/2024 00:37	WG2366229
trans-1,2-Dichloroethene	U		0.00120	0.00577	1.11	09/20/2024 00:37	WG2366229
1,2-Dichloropropane	U		0.00164	0.00577	1.11	09/20/2024 00:37	WG2366229
1,1-Dichloropropene	U		0.000934	0.00289	1.11	09/20/2024 00:37	WG2366229
1,3-Dichloropropane	U		0.000578	0.00577	1.11	09/20/2024 00:37	WG2366229
cis-1,3-Dichloropropene	U		0.000874	0.00289	1.11	09/20/2024 00:37	WG2366229
trans-1,3-Dichloropropene	U		0.00132	0.00577	1.11	09/20/2024 00:37	WG2366229
2,2-Dichloropropane	U		0.00159	0.00289	1.11	09/20/2024 00:37	WG2366229
Di-isopropyl ether	U		0.000473	0.00115	1.11	09/20/2024 00:37	WG2366229
Ethylbenzene	U		0.000851	0.00289	1.11	09/20/2024 00:37	WG2366229
Hexachloro-1,3-butadiene	U		0.00693	0.0289	1.11	09/20/2024 00:37	WG2366229
Isopropylbenzene	U		0.000491	0.00289	1.11	09/20/2024 00:37	WG2366229
p-Isopropyltoluene	U		0.00294	0.00577	1.11	09/20/2024 00:37	WG2366229
2-Butanone (MEK)	U		0.0733	0.115	1.11	09/20/2024 00:37	WG2366229
Methylene Chloride	U		0.00767	0.0289	1.11	09/20/2024 00:37	WG2366229
4-Methyl-2-pentanone (MIBK)	U		0.00263	0.0289	1.11	09/20/2024 00:37	WG2366229
Methyl tert-butyl ether	U		0.000405	0.00115	1.11	09/20/2024 00:37	WG2366229
Naphthalene	U		0.00564	0.0145	1.11	09/20/2024 00:37	WG2366229
n-Propylbenzene	U		0.00109	0.00577	1.11	09/20/2024 00:37	WG2366229
Styrene	U		0.000264	0.0145	1.11	09/20/2024 00:37	WG2366229
1,1,1,2-Tetrachloroethane	U		0.00109	0.00289	1.11	09/20/2024 00:37	WG2366229
1,1,2,2-Tetrachloroethane	U		0.000802	0.00289	1.11	09/20/2024 00:37	WG2366229
1,1,2-Trichlorotrifluoroethane	U		0.000871	0.00289	1.11	09/20/2024 00:37	WG2366229
Tetrachloroethene	U		0.00103	0.00289	1.11	09/20/2024 00:37	WG2366229
Toluene	0.00185	_	0.00150	0.00577	1.11	09/20/2024 00:37	WG2366229
1,2,3-Trichlorobenzene	U		0.00847	0.0145	1.11	09/20/2024 00:37	WG2366229
1,2,4-Trichlorobenzene	U		0.00508	0.0145	1.11	09/20/2024 00:37	WG2366229
1,1,1-Trichloroethane	U		0.00106	0.00289	1.11	09/20/2024 00:37	WG2366229
1,1,2-Trichloroethane	U		0.000690	0.00289	1.11	09/20/2024 00:37	WG2366229
Trichloroethene	U		0.000674	0.00115	1.11	09/20/2024 00:37	WG2366229
Trichlorofluoromethane	U		0.000955	0.00289	1.11	09/20/2024 00:37	WG2366229
1,2,3-Trichloropropane	U		0.00187	0.0145	1.11	09/20/2024 00:37	WG2366229
1,2,4-Trimethylbenzene	U		0.00182	0.00577	1.11	09/20/2024 00:37	WG2366229
1,2,3-Trimethylbenzene	U		0.00182	0.00577	1.11	09/20/2024 00:37	WG2366229
1,3,5-Trimethylbenzene	U		0.00231	0.00577	1.11	09/20/2024 00:37	WG2366229
Vinyl chloride	U		0.00134	0.00289	1.11	09/20/2024 00:37	WG2366229
Xylenes, Total	U		0.00102	0.00751	1.11	09/20/2024 00:37	WG2366229
(S) Toluene-d8	*100*			*75.0-131*		*09/20/2024 00:37*	WG2366229
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/20/2024 00:37*	WG2366229
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*09/20/2024 00:37*	WG2366229

Sem - o at e rgan c Compounds C b Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	13.6		1.50	8.17	2	09/24/2024 22:59	WG2368266
(S) o-Terphenyl	*45.3*			*18.0-148*		*09/24/2024 22:59*	WG2368266

Ch or nated Ac d Herb c des C b Method 8151

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.00717	0.0715	1	09/21/2024 21:50	WG2365909
Dalapon	U		0.0115	0.0715	1	09/21/2024 21:50	WG2365909
2,4-DB	U		0.0303	0.0715	1	09/21/2024 21:50	WG2365909
Dicamba	U		0.0160	0.0715	1	09/21/2024 21:50	WG2365909
Dichloroprop	U		0.0250	0.0715	1	09/21/2024 21:50	WG2365909
Dinoseb	U		0.00712	0.0715	1	09/21/2024 21:50	WG2365909
MCPA	U		0.452	6.64	1	09/21/2024 21:50	WG2365909
MCPP	U		0.375	6.64	1	09/21/2024 21:50	WG2365909
2,4,5-T	U		0.00870	0.0715	1	09/21/2024 21:50	WG2365909
2,4,5-TP (Silvex)	U		0.0109	0.0715	1	09/21/2024 21:50	WG2365909
(S) 2,4-Dichlorophenyl Acetic Acid	*85.5*			*22.0-132*		*09/21/2024 21:50*	WG2365909

P Pest c des b Method 8141

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Azinphos-Methyl	U		0.0325	0.102	1	09/21/2024 10:06	WG2365773
Bolstar (Sulprofos)	U		0.0152	0.102	1	09/21/2024 10:06	WG2365773
Chlorpyrifos	U		0.0160	0.102	1	09/21/2024 10:06	WG2365773
Coumaphos	U		0.0248	0.102	1	09/21/2024 10:06	WG2365773
Demeton,-O and -S	U		0.00596	0.0715	1	09/21/2024 10:06	WG2365773
Diazinon	U		0.0230	0.102	1	09/21/2024 10:06	WG2365773
Dichlorvos	U		0.0306	0.102	1	09/21/2024 10:06	WG2365773
Dimethoate	U		0.0341	0.102	1	09/21/2024 10:06	WG2365773
Disulfoton	U		0.0259	0.102	1	09/21/2024 10:06	WG2365773
EPN	U		0.0282	0.102	1	09/21/2024 10:06	WG2365773
Ethoprop	U		0.0120	0.102	1	09/21/2024 10:06	WG2365773
Ethyl Parathion	U		0.0167	0.102	1	09/21/2024 10:06	WG2365773
Fensulfothion	U		0.0360	0.102	1	09/21/2024 10:06	WG2365773
Fenthion	U		0.0136	0.102	1	09/21/2024 10:06	WG2365773
Malathion	U		0.0183	0.102	1	09/21/2024 10:06	WG2365773
Merphos	U		0.0237	0.102	1	09/21/2024 10:06	WG2365773
Methyl parathion	U		0.0207	0.102	1	09/21/2024 10:06	WG2365773
Mevinphos	U		0.0235	0.102	1	09/21/2024 10:06	WG2365773
Naled	U		0.0490	0.102	1	09/21/2024 10:06	WG2365773
Phorate	U		0.0214	0.102	1	09/21/2024 10:06	WG2365773
Ronnel	U		0.0152	0.102	1	09/21/2024 10:06	WG2365773
Stirophos	U		0.0182	0.102	1	09/21/2024 10:06	WG2365773
Sulfotep	U		0.0101	0.102	1	09/21/2024 10:06	WG2365773
TEPP	U		0.160	1.02	1	09/21/2024 10:06	WG2365773
Tokuthion (Prothothiofos)	U		0.0153	0.102	1	09/21/2024 10:06	WG2365773
Trichloronate	U		0.0205	0.102	1	09/21/2024 10:06	WG2365773
(S) Triphenyl Phosphate	*94.3*			*36.0-121*		*09/21/2024 10:06*	WG2365773

Pest c des C b Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00384	0.0204	1	09/24/2024 16:01	WG2368272
Alpha BHC	U		0.00376	0.0204	1	09/24/2024 16:01	WG2368272
Beta BHC	U		0.00387	0.0204	1	09/24/2024 16:01	WG2368272
Delta BHC	U		0.00353	0.0204	1	09/24/2024 16:01	WG2368272
Gamma BHC	U		0.00351	0.0204	1	09/24/2024 16:01	WG2368272
4,4-DDD	U		0.00378	0.0204	1	09/24/2024 16:01	WG2368272
4,4-DDE	U		0.00374	0.0204	1	09/24/2024 16:01	WG2368272
4,4-DDT	U		0.00640	0.0204	1	09/24/2024 16:01	WG2368272
Dieldrin	U		0.00351	0.0204	1	09/24/2024 16:01	WG2368272

Pest c des C b Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Endosulfan I	U		0.00371	0.0204	1	09/24/2024 16:01	WG2368272
Endosulfan II	U		0.00342	0.0204	1	09/24/2024 16:01	WG2368272
Endosulfan sulfate	U		0.00372	0.0204	1	09/24/2024 16:01	WG2368272
Endrin	U		0.00357	0.0204	1	09/24/2024 16:01	WG2368272
Endrin aldehyde	U		0.00346	0.0204	1	09/24/2024 16:01	WG2368272
Endrin ketone	U		0.00726	0.0204	1	09/24/2024 16:01	WG2368272
Heptachlor	U		0.00437	0.0204	1	09/24/2024 16:01	WG2368272
Heptachlor epoxide	U		0.00346	0.0204	1	09/24/2024 16:01	WG2368272
Hexachlorobenzene	U		0.00353	0.0204	1	09/24/2024 16:01	WG2368272
Methoxychlor	U		0.00494	0.0204	1	09/24/2024 16:01	WG2368272
Chlordane	U		0.105	0.306	1	09/24/2024 16:01	WG2368272
Toxaphene	U		0.127	0.408	1	09/24/2024 16:01	WG2368272
(S) Decachlorobiphenyl	*64.7*			*10.0-135*		*09/24/2024 16:01*	WG2368272
(S) Tetrachloro-m-xylene	*73.6*			*10.0-139*		*09/24/2024 16:01*	WG2368272

Sem o at e rgan c Compounds C/MS b Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0110	0.0680	2	09/24/2024 15:02	WG2367359
Acenaphthylene	U		0.00958	0.0680	2	09/24/2024 15:02	WG2367359
Anthracene	U		0.0122	0.0680	2	09/24/2024 15:02	WG2367359
Benzidine	U		0.128	3.41	2	09/24/2024 15:02	WG2367359
Benzo(a)anthracene	U		0.0119	0.0680	2	09/24/2024 15:02	WG2367359
Benzo(b)fluoranthene	U		0.0127	0.0680	2	09/24/2024 15:02	WG2367359
Benzo(k)fluoranthene	U		0.0120	0.0680	2	09/24/2024 15:02	WG2367359
Benzo(g,h,i)perylene	U		0.0125	0.0680	2	09/24/2024 15:02	WG2367359
Benzo(a)pyrene	U		0.0127	0.0680	2	09/24/2024 15:02	WG2367359
Bis(2-chlorethoxy)methane	U		0.0204	0.680	2	09/24/2024 15:02	WG2367359
Bis(2-chloroethyl)ether	U		0.0225	0.680	2	09/24/2024 15:02	WG2367359
2,2-Oxybis(1-Chloropropane)	U		0.0294	0.680	2	09/24/2024 15:02	WG2367359
4-Bromophenyl-phenylether	U		0.0239	0.680	2	09/24/2024 15:02	WG2367359
2-Chloronaphthalene	U		0.0119	0.0680	2	09/24/2024 15:02	WG2367359
4-Chlorophenyl-phenylether	U		0.0237	0.680	2	09/24/2024 15:02	WG2367359
Chrysene	U		0.0135	0.0680	2	09/24/2024 15:02	WG2367359
Dibenz(a,h)anthracene	U		0.0189	0.0680	2	09/24/2024 15:02	WG2367359
3,3-Dichlorobenzidine	U		0.0251	0.680	2	09/24/2024 15:02	WG2367359
2,4-Dinitrotoluene	U		0.0195	0.680	2	09/24/2024 15:02	WG2367359
2,6-Dinitrotoluene	U		0.0223	0.680	2	09/24/2024 15:02	WG2367359
Fluoranthene	U		0.0123	0.0680	2	09/24/2024 15:02	WG2367359
Fluorene	U		0.0110	0.0680	2	09/24/2024 15:02	WG2367359
Hexachlorobenzene	U		0.0241	0.680	2	09/24/2024 15:02	WG2367359
Hexachloro-1,3-butadiene	U		0.0229	0.680	2	09/24/2024 15:02	WG2367359
Hexachlorocyclopentadiene	U		0.0357	0.680	2	09/24/2024 15:02	WG2367359
Hexachloroethane	U		0.0268	0.680	2	09/24/2024 15:02	WG2367359
Indeno(1,2,3-cd)pyrene	U		0.0192	0.0680	2	09/24/2024 15:02	WG2367359
Isophorone	U		0.0208	0.680	2	09/24/2024 15:02	WG2367359
Naphthalene	U		0.0171	0.0680	2	09/24/2024 15:02	WG2367359
Nitrobenzene	U		0.0237	0.680	2	09/24/2024 15:02	WG2367359
n-Nitrosodimethylamine	U		0.101	0.680	2	09/24/2024 15:02	WG2367359
n-Nitrosodiphenylamine	U		0.0515	0.680	2	09/24/2024 15:02	WG2367359
n-Nitrosodi-n-propylamine	U		0.0227	0.680	2	09/24/2024 15:02	WG2367359
Phenanthrene	U		0.0135	0.0680	2	09/24/2024 15:02	WG2367359
Benzylbutyl phthalate	U		0.0212	0.680	2	09/24/2024 15:02	WG2367359
Bis(2-ethylhexyl)phthalate	U		0.0862	0.680	2	09/24/2024 15:02	WG2367359
Di-n-butyl phthalate	U		0.0233	0.680	2	09/24/2024 15:02	WG2367359
Diethyl phthalate	U		0.0225	0.680	2	09/24/2024 15:02	WG2367359

Sem o at e rgan c Compounds C/MS b Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dimethyl phthalate	U		0.144	0.680	2	09/24/2024 15:02	WG2367359
Di-n-octyl phthalate	U		0.0459	0.680	2	09/24/2024 15:02	WG2367359
Pyrene	U		0.0133	0.0680	2	09/24/2024 15:02	WG2367359
1,2,4-Trichlorobenzene	U		0.0212	0.680	2	09/24/2024 15:02	WG2367359
4-Chloro-3-methylphenol	U		0.0221	0.680	2	09/24/2024 15:02	WG2367359
2-Chlorophenol	U		0.0225	0.680	2	09/24/2024 15:02	WG2367359
2,4-Dichlorophenol	U		0.0198	0.680	2	09/24/2024 15:02	WG2367359
2,4-Dimethylphenol	U		0.0178	0.680	2	09/24/2024 15:02	WG2367359
4,6-Dinitro-2-methylphenol	U		0.154	0.680	2	09/24/2024 15:02	WG2367359
2,4-Dinitrophenol	U		0.159	0.680	2	09/24/2024 15:02	WG2367359
2-Nitrophenol	U		0.0243	0.680	2	09/24/2024 15:02	WG2367359
4-Nitrophenol	U		0.0212	0.680	2	09/24/2024 15:02	WG2367359
Pentachlorophenol	U		0.0183	0.680	2	09/24/2024 15:02	WG2367359
Phenol	U		0.0274	0.680	2	09/24/2024 15:02	WG2367359
2,4,6-Trichlorophenol	U		0.0219	0.680	2	09/24/2024 15:02	WG2367359
(S) 2-Fluorophenol	*19.1*			*12.0-120*		*09/24/2024 15:02*	WG2367359
(S) Phenol-d5	*17.6*			*10.0-120*		*09/24/2024 15:02*	WG2367359
(S) Nitrobenzene-d5	*16.2*			*10.0-122*		*09/24/2024 15:02*	WG2367359
(S) 2-Fluorobiphenyl	*16.7*			*15.0-120*		*09/24/2024 15:02*	WG2367359
(S) 2,4,6-Tribromophenol	*17.8*			*10.0-127*		*09/24/2024 15:02*	WG2367359
(S) p-Terphenyl-d14	*21.3*			*10.0-120*		*09/24/2024 15:02*	WG2367359

Sample Narrative:

L1779391-01 WG2367359: Dilution due to matrix impact during extract concentration procedure.

Method an M

M 4122675-1 09/20/24 09:46

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1779381-01 r g na Samp e S up cate UP

S L1779381-01 09/20/24 09:46 UP 4122675-3 09/20/24 09:46

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.1	85.5	1	0.631		10

Laborator Contro Samp e LCS

LCS 4122675-2 09/20/24 09:46

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method an M

M 4122658-1 09/21/24 09:55

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laborator Contro Samp e LCS

LCS 4122658-2 09/21/24 09:58

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.519	104	80.0-120	

L1778742-06 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778742-06 09/21/24 10:00 MS 4122658-4 09/21/24 10:05 MS 4122658-5 09/21/24 10:08

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg				%	%		%			%	%
Mercury	0.744	0.0963	0.838	0.868	99.7	104	1	75.0-125			3.57	20

Method an M

M 4122990-1 09/23/24 00:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	0.154	_	0.0852	0.500
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00

Method an M

M 4123267-1 09/23/24 16:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.518	2.00
Barium	0.139	_	0.0852	0.500
Cadmium	0.0534	_	0.0471	0.500
Chromium	U		0.133	1.00
Lead	U		0.208	0.500
Selenium	U		0.764	2.00
Silver	U		0.127	1.00

Laborator Contro Samp e LCS

LCS 4122990-2 09/23/24 00:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	107	107	80.0-120	
Cadmium	100	100	100	80.0-120	
Chromium	100	107	107	80.0-120	
Selenium	100	102	102	80.0-120	
Silver	20.0	19.6	98.0	80.0-120	

Laborator Contro Samp e LCS

LCS 4123267-2 09/23/24 16:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	99.7	99.7	80.0-120	
Barium	100	103	103	80.0-120	
Cadmium	100	102	102	80.0-120	
Chromium	100	103	103	80.0-120	

Laborator Contro Samp e LCS

LCS 4123267-2 09/23/24 16:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	101	101	80.0-120	
Selenium	100	99.0	99.0	80.0-120	
Silver	20.0	19.8	99.2	80.0-120	

L1779142-02 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1779142-02 09/23/24 00:28 MS 4122990-5 09/23/24 00:36 MS 4122990-6 09/23/24 00:39

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	121	53.1	181	181	106	106	1	75.0-125			0.0508	20
Cadmium	121	U	104	109	85.9	90.5	1	75.0-125			5.26	20
Chromium	121	8.32	121	124	93.1	95.7	1	75.0-125			2.59	20
Selenium	121	U	94.2	81.6	78.0	67.6	1	75.0-125		6	14.4	20
Silver	24.2	U	20.2	21.6	83.5	89.3	1	75.0-125			6.74	20

L1779142-02 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1779142-02 09/23/24 16:26 MS 4123267-5 09/23/24 16:31 MS 4123267-6 09/23/24 16:33

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	121	1.34	101	99.1	82.6	80.9	1	75.0-125			2.05	20
Lead	121	18.3	129	129	91.9	91.6	1	75.0-125			0.290	20

Method an M

M 4123046-2 09/20/24 01:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	2.00	_	0.830	2.50
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*77.0-120*

Laborator Contro Samp e LCS

LCS 4123046-1 09/19/24 23:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5.00	4.12	82.4	72.0-125	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

L1778548-03 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778548-03 09/20/24 08:20 MS 4123046-3 09/20/24 09:14 MS 4123046-4 09/20/24 09:39

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHG C5 - C12	172	10.9	154	142	83.1	75.9	25	10.0-141			8.46	29
(S) a,a,a-Trifluorotoluene(FID)					*106*	*106*		*77.0-120*				

Method an M

M 4122937-2 09/19/24 23:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method an M

M 4122937-2 09/19/24 23:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

Laborator Contro Samp e LCS

LCS 4122937-1 09/19/24 22:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	1.25	200	10.0-160	4
Acrylonitrile	0.625	0.951	152	45.0-153	
Benzene	0.125	0.110	88.0	70.0-123	
Bromobenzene	0.125	0.105	84.0	73.0-121	
Bromodichloromethane	0.125	0.115	92.0	73.0-121	

Laborator Contro Samp e LCS

LCS 4122937-1 09/19/24 22:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.0908	72.6	64.0-132	
Bromomethane	0.125	0.0959	76.7	56.0-147	
n-Butylbenzene	0.125	0.0888	71.0	68.0-135	
sec-Butylbenzene	0.125	0.0907	72.6	74.0-130	4
tert-Butylbenzene	0.125	0.0914	73.1	75.0-127	4
Carbon tetrachloride	0.125	0.111	88.8	66.0-128	
Chlorobenzene	0.125	0.111	88.8	76.0-128	
Chlorodibromomethane	0.125	0.103	82.4	74.0-127	
Chloroethane	0.125	0.127	102	61.0-134	
Chloroform	0.125	0.115	92.0	72.0-123	
Chloromethane	0.125	0.164	131	51.0-138	
2-Chlorotoluene	0.125	0.103	82.4	75.0-124	
4-Chlorotoluene	0.125	0.0989	79.1	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.0873	69.8	59.0-130	
1,2-Dibromoethane	0.125	0.113	90.4	74.0-128	
Dibromomethane	0.125	0.122	97.6	75.0-122	
1,2-Dichlorobenzene	0.125	0.108	86.4	76.0-124	
1,3-Dichlorobenzene	0.125	0.102	81.6	76.0-125	
1,4-Dichlorobenzene	0.125	0.102	81.6	77.0-121	
Dichlorodifluoromethane	0.125	0.114	91.2	43.0-156	
1,1-Dichloroethane	0.125	0.136	109	70.0-127	
1,2-Dichloroethane	0.125	0.126	101	65.0-131	
1,1-Dichloroethene	0.125	0.138	110	65.0-131	
cis-1,2-Dichloroethene	0.125	0.116	92.8	73.0-125	
trans-1,2-Dichloroethene	0.125	0.105	84.0	71.0-125	
1,2-Dichloropropane	0.125	0.147	118	74.0-125	
1,1-Dichloropropene	0.125	0.118	94.4	73.0-125	
1,3-Dichloropropane	0.125	0.119	95.2	80.0-125	
cis-1,3-Dichloropropene	0.125	0.113	90.4	76.0-127	
trans-1,3-Dichloropropene	0.125	0.108	86.4	73.0-127	
2,2-Dichloropropane	0.125	0.0950	76.0	59.0-135	
Di-isopropyl ether	0.125	0.170	136	60.0-136	
Ethylbenzene	0.125	0.105	84.0	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.0844	67.5	57.0-150	
Isopropylbenzene	0.125	0.100	80.0	72.0-127	
p-Isopropyltoluene	0.125	0.0912	73.0	72.0-133	
2-Butanone (MEK)	0.625	0.914	146	30.0-160	
Methylene Chloride	0.125	0.123	98.4	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.866	139	56.0-143	
Methyl tert-butyl ether	0.125	0.122	97.6	66.0-132	

Laborator Contro Samp e LCS

LCS 4122937-1 09/19/24 22:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.0847	67.8	59.0-130	
n-Propylbenzene	0.125	0.0965	77.2	74.0-126	
Styrene	0.125	0.105	84.0	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.110	88.0	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.0985	78.8	68.0-128	
1,1,2-Trichlorotrifluoroethane	0.125	0.124	99.2	61.0-139	
Tetrachloroethene	0.125	0.114	91.2	70.0-136	
Toluene	0.125	0.105	84.0	75.0-121	
1,2,3-Trichlorobenzene	0.125	0.0919	73.5	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.0962	77.0	62.0-137	
1,1,1-Trichloroethane	0.125	0.118	94.4	69.0-126	
1,1,2-Trichloroethane	0.125	0.112	89.6	78.0-123	
Trichloroethene	0.125	0.133	106	76.0-126	
Trichlorofluoromethane	0.125	0.108	86.4	61.0-142	
1,2,3-Trichloropropane	0.125	0.117	93.6	67.0-129	
1,2,4-Trimethylbenzene	0.125	0.0946	75.7	70.0-126	
1,2,3-Trimethylbenzene	0.125	0.0961	76.9	74.0-124	
1,3,5-Trimethylbenzene	0.125	0.0967	77.4	73.0-127	
Vinyl chloride	0.125	0.113	90.4	63.0-134	
Xylenes, Total	0.375	0.312	83.2	72.0-127	
(S) Toluene-d8			*99.2*	*75.0-131*	
(S) 4-Bromofluorobenzene			*104*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*111*	*70.0-130*	

L1778061-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778061-01 09/20/24 03:07 MS 4122937-3 09/20/24 05:35 MS 4122937-4 09/20/24 05:54

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.957	U	0.756	1.61	79.0	168	1.02	10.0-160		3 5	71.9	40
Acrylonitrile	0.957	U	0.900	1.32	94.0	138	1.02	10.0-160			37.7	40
Benzene	0.192	U	0.194	0.206	101	107	1.02	10.0-149			6.02	37
Bromobenzene	0.192	U	0.189	0.194	98.4	101	1.02	10.0-156			2.35	38
Bromodichloromethane	0.192	U	0.188	0.197	97.7	102	1.02	10.0-143			4.69	37
Bromoform	0.192	U	0.164	0.161	85.2	83.6	1.02	10.0-146			1.85	36
Bromomethane	0.192	U	0.155	0.161	80.5	83.6	1.02	10.0-149			3.81	38
n-Butylbenzene	0.192	U	0.146	0.173	75.8	89.8	1.02	10.0-160			17.0	40
sec-Butylbenzene	0.192	U	0.156	0.182	81.3	94.5	1.02	10.0-159			15.1	39
tert-Butylbenzene	0.192	U	0.153	0.180	79.7	93.7	1.02	10.0-156			16.2	39

L1778061-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778061-01 09/20/24 03:07 MS 4122937-3 09/20/24 05:35 MS 4122937-4 09/20/24 05:54

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Carbon tetrachloride	0.192	U	0.192	0.233	100	121	1.02	10.0-145			19.1	37
Chlorobenzene	0.192	U	0.191	0.210	99.2	109	1.02	10.0-152			9.74	39
Chlorodibromomethane	0.192	U	0.177	0.174	92.2	90.6	1.02	10.0-146			1.71	37
Chloroethane	0.192	U	0.189	0.212	98.4	110	1.02	10.0-146			11.2	40
Chloroform	0.192	U	0.191	0.197	99.2	102	1.02	10.0-146			3.10	37
Chloromethane	0.192	U	0.282	0.345	147	180	1.02	10.0-159		5	20.1	37
2-Chlorotoluene	0.192	U	0.176	0.195	91.4	102	1.02	10.0-159			10.5	38
4-Chlorotoluene	0.192	U	0.173	0.192	89.8	100	1.02	10.0-155			10.7	39
1,2-Dibromo-3-Chloropropane	0.192	U	0.146	0.130	76.2	67.7	1.02	10.0-151			11.8	39
1,2-Dibromoethane	0.192	U	0.194	0.200	101	104	1.02	10.0-148			3.05	34
Dibromomethane	0.192	U	0.186	0.185	96.9	96.1	1.02	10.0-147			0.810	35
1,2-Dichlorobenzene	0.192	U	0.185	0.192	96.1	100	1.02	10.0-155			3.98	37
1,3-Dichlorobenzene	0.192	U	0.176	0.189	91.4	98.4	1.02	10.0-153			7.41	38
1,4-Dichlorobenzene	0.192	U	0.180	0.191	93.7	99.2	1.02	10.0-151			5.67	38
Dichlorodifluoromethane	0.192	U	0.177	0.242	92.2	126	1.02	10.0-160			30.8	35
1,1-Dichloroethane	0.192	U	0.233	0.263	121	137	1.02	10.0-147			12.1	37
1,2-Dichloroethane	0.192	U	0.182	0.179	94.5	93.0	1.02	10.0-148			1.67	35
1,1-Dichloroethene	0.192	U	0.240	0.297	125	155	1.02	10.0-155			21.2	37
cis-1,2-Dichloroethene	0.192	U	0.180	0.192	93.7	100	1.02	10.0-149			6.45	37
trans-1,2-Dichloroethene	0.192	U	0.182	0.221	94.5	115	1.02	10.0-150			19.4	37
1,2-Dichloropropane	0.192	U	0.242	0.263	126	137	1.02	10.0-148			8.33	37
1,1-Dichloropropene	0.192	U	0.198	0.228	103	119	1.02	10.0-153			14.1	35
1,3-Dichloropropane	0.192	U	0.200	0.201	104	105	1.02	10.0-154			0.749	35
cis-1,3-Dichloropropene	0.192	U	0.194	0.203	101	105	1.02	10.0-151			4.55	37
trans-1,3-Dichloropropene	0.192	U	0.189	0.197	98.4	102	1.02	10.0-148			3.89	37
2,2-Dichloropropane	0.192	U	0.185	0.195	96.1	102	1.02	10.0-138			5.53	36
Di-isopropyl ether	0.192	U	0.273	0.270	142	141	1.02	10.0-147			1.10	36
Ethylbenzene	0.192	U	0.170	0.201	88.3	105	1.02	10.0-160			17.0	38
Hexachloro-1,3-butadiene	0.192	U	0.135	0.173	70.5	89.8	1.02	10.0-160			24.1	40
Isopropylbenzene	0.192	U	0.164	0.194	85.2	101	1.02	10.0-155			16.8	38
p-Isopropyltoluene	0.192	U	0.155	0.183	80.5	95.3	1.02	10.0-160			16.9	40
2-Butanone (MEK)	0.957	U	1.29	1.13	135	118	1.02	10.0-160			13.4	40
Methylene Chloride	0.192	0.0103	0.219	0.255	109	127	1.02	10.0-141			15.2	37
4-Methyl-2-pentanone (MIBK)	0.957	U	1.29	1.25	135	131	1.02	10.0-160			2.95	35
Methyl tert-butyl ether	0.192	U	0.167	0.167	86.7	86.7	1.02	11.0-147			0.000	35
Naphthalene	0.192	U	0.119	0.142	62.1	73.8	1.02	10.0-160			17.1	36
n-Propylbenzene	0.192	U	0.168	0.191	87.5	99.2	1.02	10.0-158			12.6	38
Styrene	0.192	U	0.173	0.191	89.8	99.2	1.02	10.0-160			9.92	40
1,1,1,2-Tetrachloroethane	0.192	U	0.180	0.191	93.7	99.2	1.02	10.0-149			5.67	39

L1778061-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778061-01 09/20/24 03:07 MS 4122937-3 09/20/24 05:35 MS 4122937-4 09/20/24 05:54

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1,2,2-Tetrachloroethane	0.192	U	0.167	0.164	86.7	85.2	1.02	10.0-160			1.82	35
1,1,2-Trichlorotrifluoroethane	0.192	U	0.201	0.270	105	141	1.02	10.0-160			29.3	36
Tetrachloroethene	0.192	U	0.185	0.219	96.1	114	1.02	10.0-156			17.1	39
Toluene	0.192	U	0.182	0.206	94.5	107	1.02	10.0-156			12.4	38
1,2,3-Trichlorobenzene	0.192	U	0.124	0.156	64.5	81.3	1.02	10.0-160			23.1	40
1,2,4-Trichlorobenzene	0.192	U	0.150	0.176	77.9	91.4	1.02	10.0-160			16.0	40
1,1,1-Trichloroethane	0.192	U	0.198	0.242	103	126	1.02	10.0-144			19.8	35
1,1,2-Trichloroethane	0.192	U	0.135	0.138	70.5	72.1	1.02	10.0-160			2.19	35
Trichloroethene	0.192	U	0.224	0.261	116	136	1.02	10.0-156			15.5	38
Trichlorofluoromethane	0.192	U	0.186	0.234	96.9	122	1.02	10.0-160			22.9	40
1,2,3-Trichloropropane	0.192	U	0.203	0.197	105	102	1.02	10.0-156			3.01	35
1,2,4-Trimethylbenzene	0.192	U	0.161	0.180	83.6	93.7	1.02	10.0-160			11.5	36
1,2,3-Trimethylbenzene	0.192	U	0.167	0.180	86.7	93.7	1.02	10.0-160			7.79	36
1,3,5-Trimethylbenzene	0.192	U	0.170	0.186	88.3	96.9	1.02	10.0-160			9.28	38
Vinyl chloride	0.192	U	0.158	0.189	82.0	98.4	1.02	10.0-160			18.2	37
Xylenes, Total	0.575	0.00138	0.518	0.590	89.8	102	1.02	10.0-160			13.0	38
(S) Toluene-d8					*101*	*101*		*75.0-131*				
(S) 4-Bromofluorobenzene					*101*	*104*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*102*	*102*		*70.0-130*				

Method an M

M 4123782-1 09/24/24 13:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		0.733	4.00
(S) o-Terphenyl	*55.6*			*18.0-148*

Laborator Contro Samp e LCS

LCS 4123782-2 09/24/24 13:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C12-C22 Hydrocarbons	50.0	25.6	51.2	50.0-150	
(S) o-Terphenyl			*46.7*	*18.0-148*	

L1779902-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1779902-01 09/24/24 22:18 MS 4123782-3 09/24/24 22:32 MS 4123782-4 09/24/24 22:45

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C12-C22 Hydrocarbons	47.8	3.41	23.7	9.05	42.4	11.8	1	50.0-150	6	3 6	89.4	20
(S) o-Terphenyl					*32.8*	*17.1*		*18.0-148*		2		

Method an M

M 4123287-1 09/21/24 16:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2,4-D	U		0.00702	0.0700
Dalapon	U		0.0113	0.0700
2,4-DB	U		0.0297	0.0700
Dicamba	U		0.0157	0.0700
Dichloroprop	U		0.0245	0.0700
Dinoseb	U		0.00697	0.0700
MCPA	U		0.443	6.50
MCPP	U		0.367	6.50
2,4,5-T	U		0.00852	0.0700
2,4,5-TP (Silvex)	U		0.0107	0.0700
(S) 2,4-Dichlorophenyl Acetic Acid	*73.1*			*22.0-132*

Laborator Contro Samp e LCS

LCS 4123287-2 09/21/24 16:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
2,4-D	0.0833	0.0700	84.0	40.0-120	
Dalapon	0.0833	0.0720	86.4	15.0-120	
2,4-DB	0.0833	0.0604	72.5	25.0-143	
Dicamba	0.0833	0.0558	67.0	43.0-120	
Dichloroprop	0.0833	0.0579	69.5	32.0-129	
Dinoseb	0.0833	0.0190	22.8	10.0-120	
MCPA	8.33	8.15	97.8	31.0-121	
MCPP	8.33	4.54	54.5	28.0-133	
2,4,5-T	0.0833	0.0649	77.9	41.0-120	
2,4,5-TP (Silvex)	0.0833	0.0555	66.6	42.0-120	
(S) 2,4-Dichlorophenyl Acetic Acid			*65.9*	*22.0-132*	

L1778392-18 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778392-18 09/21/24 20:08 MS 4123287-3 09/21/24 20:20 MS 4123287-4 09/21/24 20:31

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4-D	0.167	U	0.194	0.217	116	128	1	10.0-160	P	P	11.1	24
Dalapon	0.167	U	0.125	0.123	75.3	72.7	1	10.0-121			2.28	27
2,4-DB	0.167	U	0.287	0.725	173	430	1	10.0-160	5 P	E 3 5 P	86.4	22

CONFIDENTIAL
No reliance without separate reliance agreement.

L1778392-18 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778392-18 09/21/24 20:08 MS 4123287-3 09/21/24 20:20 MS 4123287-4 09/21/24 20:31

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Dicamba	0.167	U	0.120	0.119	72.1	70.6	1	10.0-154			0.847	21
Dichloroprop	0.167	U	0.128	0.119	76.8	70.3	1	10.0-158			7.55	20
Dinoseb	0.167	U	0.122	0.116	73.1	68.9	1	10.0-120			4.76	40
MCPA	16.7	U	16.6	16.3	99.6	96.4	1	10.0-160		P	2.09	40
MCPP	16.7	U	10.8	11.0	65.1	65.2	1	10.0-160			1.30	40
2,4,5-T	0.167	U	0.124	0.120	74.5	71.1	1	10.0-157			3.49	20
2,4,5-TP (Silvex)	0.167	U	0.103	0.100	61.8	59.4	1	10.0-156			2.79	20
(S) 2,4-Dichlorophenyl Acetic Acid					*71.5*	*73.1*		*22.0-132*				

Method an M

M 4122767-1 09/21/24 00:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Azinphos-Methyl	U		0.0318	0.100
Bolstar (Sulprofos)	U		0.0149	0.100
Chlorpyrifos	U		0.0157	0.100
Coumaphos	U		0.0243	0.100
Demeton,-O and -S	U		0.00584	0.0700
Diazinon	U		0.0225	0.100
Dichlorvos	U		0.0300	0.100
Dimethoate	U		0.0334	0.100
Disulfoton	U		0.0254	0.100
EPN	U		0.0276	0.100
Ethoprop	U		0.0118	0.100
Ethyl Parathion	U		0.0164	0.100
Fensulfothion	U		0.0353	0.100
Fenthion	U		0.0133	0.100
Malathion	U		0.0179	0.100
Merphos	U		0.0232	0.100
Methyl parathion	U		0.0203	0.100
Mevinphos	U		0.0230	0.100
Naled	U		0.0480	0.100
Phorate	U		0.0210	0.100
Ronnel	U		0.0149	0.100
Stirophos	U		0.0178	0.100
Sulfotep	U		0.00986	0.100
TEPP	U		0.157	1.00
Tokuthion (Prothothiofos)	U		0.0150	0.100
Trichloronate	U		0.0201	0.100
(S) Triphenyl Phosphate	*91.3*			*36.0-121*

Laborator Contro Samp e LCS

LCS 4122767-2 09/21/24 01:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Azinphos-Methyl	0.333	0.296	88.9	58.0-125	
Bolstar (Sulprofos)	0.333	0.284	85.3	64.0-120	
Chlorpyrifos	0.333	0.302	90.7	62.0-120	
Coumaphos	0.333	0.306	91.9	60.0-120	
Demeton,-O and -S	0.167	0.148	88.6	59.0-120	
Diazinon	0.333	0.276	82.9	49.0-120	

Laborator Contro Samp e LCS

LCS 4122767-2 09/21/24 01:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dichlorvos	0.333	0.196	58.9	37.0-120	
Dimethoate	0.333	0.282	84.7	46.0-127	
Disulfoton	0.333	0.289	86.8	60.0-121	
EPN	0.333	0.282	84.7	60.0-121	
Ethoprop	0.333	0.296	88.9	59.0-120	
Ethyl Parathion	0.333	0.316	94.9	62.0-120	
Fensulfothion	0.333	0.274	82.3	58.0-123	
Fenthion	0.333	0.284	85.3	61.0-121	
Malathion	0.333	0.311	93.4	59.0-120	
Merphos	0.333	0.248	74.5	59.0-120	
Methyl parathion	0.333	0.286	85.9	63.0-120	
Mevinphos	0.333	0.234	70.3	50.0-120	
Naled	0.333	0.149	44.7	10.0-125	
Phorate	0.333	0.287	86.2	60.0-120	
Ronnel	0.333	0.282	84.7	62.0-120	
Stirophos	0.333	0.285	85.6	62.0-120	
Sulfotep	0.333	0.361	108	62.0-122	
TEPP	3.33	1.40	42.0	10.0-135	
Tokuthion (Prothothiofos)	0.333	0.291	87.4	63.0-120	
Trichloronate	0.333	0.307	92.2	62.0-120	
(S) Triphenyl Phosphate			*90.7*	*36.0-121*	

Method an M

M 4123878-1 09/24/24 14:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00376	0.0200
Alpha BHC	U		0.00368	0.0200
Beta BHC	U		0.00379	0.0200
Delta BHC	U		0.00346	0.0200
Gamma BHC	U		0.00344	0.0200
4,4-DDD	U		0.00370	0.0200
4,4-DDE	U		0.00366	0.0200
4,4-DDT	U		0.00627	0.0200
Dieldrin	U		0.00344	0.0200
Endosulfan I	U		0.00363	0.0200
Endosulfan II	U		0.00335	0.0200
Endosulfan sulfate	U		0.00364	0.0200
Endrin	U		0.00350	0.0200
Endrin aldehyde	U		0.00339	0.0200
Endrin ketone	U		0.00711	0.0200
Heptachlor	U		0.00428	0.0200
Heptachlor epoxide	U		0.00339	0.0200
Hexachlorobenzene	U		0.00346	0.0200
Methoxychlor	U		0.00484	0.0200
Chlordane	U		0.103	0.300
Toxaphene	U		0.124	0.400
(S) Decachlorobiphenyl	*87.7*			*10.0-135*
(S) Tetrachloro-m-xylene	*89.3*			*10.0-139*

Laborator Contro Samp e LCS

LCS 4123878-2 09/24/24 14:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0627	94.1	34.0-136	
Alpha BHC	0.0666	0.0620	93.1	34.0-139	
Beta BHC	0.0666	0.0599	89.9	34.0-133	
Delta BHC	0.0666	0.0507	76.1	34.0-135	
Gamma BHC	0.0666	0.0628	94.3	34.0-136	
4,4-DDD	0.0666	0.0644	96.7	33.0-141	
4,4-DDE	0.0666	0.0634	95.2	34.0-134	
4,4-DDT	0.0666	0.0631	94.7	30.0-143	
Dieldrin	0.0666	0.0639	95.9	35.0-137	
Endosulfan I	0.0666	0.0619	92.9	34.0-134	

Laborator Contro Samp e LCS

LCS 4123878-2 09/24/24 14:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	0.0666	0.0622	93.4	35.0-132	
Endosulfan sulfate	0.0666	0.0605	90.8	35.0-132	
Endrin	0.0666	0.0640	96.1	34.0-137	
Endrin aldehyde	0.0666	0.0602	90.4	23.0-121	
Endrin ketone	0.0666	0.0606	91.0	35.0-144	
Heptachlor	0.0666	0.0633	95.0	36.0-141	
Heptachlor epoxide	0.0666	0.0635	95.3	36.0-134	
Hexachlorobenzene	0.0666	0.0585	87.8	33.0-129	
Methoxychlor	0.0666	0.0614	92.2	28.0-150	
(S) Decachlorobiphenyl			*89.2*	*10.0-135*	
(S) Tetrachloro-m-xylene			*93.2*	*10.0-139*	

L1779430-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1779430-01 09/24/24 14:53 MS 4123878-3 09/24/24 15:02 MS 4123878-4 09/24/24 15:12

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0681	U	0.0539	0.0527	79.0	77.0	1	20.0-135			2.12	37
Alpha BHC	0.0681	U	0.0522	0.0539	76.6	78.7	1	27.0-140			3.10	35
Beta BHC	0.0681	U	0.0498	0.0496	73.2	72.5	1	23.0-141			0.413	37
Delta BHC	0.0681	U	0.0430	0.0433	63.0	63.2	1	21.0-138			0.715	35
Gamma BHC	0.0681	U	0.0531	0.0542	78.0	79.1	1	27.0-137			1.92	36
4,4-DDD	0.0681	U	0.0517	0.0510	75.9	74.5	1	15.0-152			1.40	39
4,4-DDE	0.0681	U	0.0550	0.0538	80.7	78.5	1	10.0-152			2.27	40
4,4-DDT	0.0681	U	0.0518	0.0518	76.0	75.7	1	10.0-151			0.000	40
Dieldrin	0.0681	U	0.0532	0.0540	78.1	78.8	1	17.0-145			1.34	37
Endosulfan I	0.0681	U	0.0534	0.0544	78.4	79.4	1	20.0-137			1.72	36
Endosulfan II	0.0681	U	0.0507	0.0499	74.4	73.0	1	15.0-141			1.43	37
Endosulfan sulfate	0.0681	U	0.0493	0.0479	72.4	70.0	1	15.0-143			2.96	38
Endrin	0.0681	U	0.0511	0.0521	75.0	76.1	1	19.0-143			1.99	37
Endrin aldehyde	0.0681	U	0.0492	0.0499	72.2	73.0	1	10.0-139			1.45	40
Endrin ketone	0.0681	U	0.0468	0.0477	68.6	69.7	1	17.0-149			1.96	38
Heptachlor	0.0681	U	0.0557	0.0563	81.7	82.3	1	22.0-138			1.10	37
Heptachlor epoxide	0.0681	U	0.0508	0.0511	74.5	74.6	1	22.0-138			0.605	36
Hexachlorobenzene	0.0681	U	0.0515	0.0526	75.6	76.9	1	25.0-126			2.17	35
Methoxychlor	0.0681	U	0.0547	0.0526	80.2	76.9	1	10.0-159			3.83	40
(S) Decachlorobiphenyl					*66.7*	*74.2*		*10.0-135*				
(S) Tetrachloro-m-xylene					*70.9*	*80.2*		*10.0-139*				

Method an M

M 4123820-2 09/24/24 10:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00539	0.0333
Acenaphthylene	U		0.00469	0.0333
Anthracene	U		0.00593	0.0333
Benzidine	U		0.0626	1.67
Benzo(a)anthracene	U		0.00587	0.0333
Benzo(b)fluoranthene	U		0.00621	0.0333
Benzo(k)fluoranthene	U		0.00592	0.0333
Benzo(g,h,i)perylene	U		0.00609	0.0333
Benzo(a)pyrene	U		0.00619	0.0333
Bis(2-chlorethoxy)methane	U		0.0100	0.333
Bis(2-chloroethyl)ether	U		0.0110	0.333
2,2-Oxybis(1-Chloropropane)	U		0.0144	0.333
4-Bromophenyl-phenylether	U		0.0117	0.333
2-Chloronaphthalene	U		0.00585	0.0333
4-Chlorophenyl-phenylether	U		0.0116	0.333
Chrysene	U		0.00662	0.0333
Dibenz(a,h)anthracene	U		0.00923	0.0333
3,3-Dichlorobenzidine	U		0.0123	0.333
2,4-Dinitrotoluene	U		0.00955	0.333
2,6-Dinitrotoluene	U		0.0109	0.333
Fluoranthene	U		0.00601	0.0333
Fluorene	U		0.00542	0.0333
Hexachlorobenzene	U		0.0118	0.333
Hexachloro-1,3-butadiene	U		0.0112	0.333
Hexachlorocyclopentadiene	U		0.0175	0.333
Hexachloroethane	U		0.0131	0.333
Indeno(1,2,3-cd)pyrene	U		0.00941	0.0333
Isophorone	U		0.0102	0.333
Naphthalene	U		0.00836	0.0333
Nitrobenzene	U		0.0116	0.333
n-Nitrosodimethylamine	U		0.0494	0.333
n-Nitrosodiphenylamine	U		0.0252	0.333
n-Nitrosodi-n-propylamine	U		0.0111	0.333
Phenanthrene	U		0.00661	0.0333
Benzylbutyl phthalate	U		0.0104	0.333
Bis(2-ethylhexyl)phthalate	U		0.0422	0.333
Di-n-butyl phthalate	U		0.0114	0.333
Diethyl phthalate	U		0.0110	0.333
Dimethyl phthalate	U		0.0706	0.333
Di-n-octyl phthalate	U		0.0225	0.333

Method an M

M 4123820-2 09/24/24 10:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.00648	0.0333
1,2,4-Trichlorobenzene	U		0.0104	0.333
4-Chloro-3-methylphenol	U		0.0108	0.333
2-Chlorophenol	U		0.0110	0.333
2,4-Dichlorophenol	U		0.00970	0.333
2,4-Dimethylphenol	U		0.00870	0.333
4,6-Dinitro-2-methylphenol	U		0.0755	0.333
2,4-Dinitrophenol	U		0.0779	0.333
2-Nitrophenol	U		0.0119	0.333
4-Nitrophenol	U		0.0104	0.333
Pentachlorophenol	U		0.00896	0.333
Phenol	U		0.0134	0.333
2,4,6-Trichlorophenol	U		0.0107	0.333
(S) 2-Fluorophenol	*75.7*			*12.0-120*
(S) Phenol-d5	*67.1*			*10.0-120*
(S) Nitrobenzene-d5	*66.4*			*10.0-122*
(S) 2-Fluorobiphenyl	*66.1*			*15.0-120*
(S) 2,4,6-Tribromophenol	*61.0*			*10.0-127*
(S) p-Terphenyl-d14	*82.0*			*10.0-120*

Laborator Contro Samp e LCS

LCS 4123820-1 09/24/24 10:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.428	64.3	38.0-120	
Acenaphthylene	0.666	0.432	64.9	40.0-120	
Anthracene	0.666	0.497	74.6	42.0-120	
Benzidine	1.33	0.595	44.7	10.0-120	
Benzo(a)anthracene	0.666	0.524	78.7	44.0-120	
Benzo(b)fluoranthene	0.666	0.528	79.3	43.0-120	
Benzo(k)fluoranthene	0.666	0.546	82.0	44.0-120	
Benzo(g,h,i)perylene	0.666	0.491	73.7	43.0-120	
Benzo(a)pyrene	0.666	0.549	82.4	45.0-120	
Bis(2-chlorethoxy)methane	0.666	0.372	55.9	20.0-120	
Bis(2-chloroethyl)ether	0.666	0.384	57.7	16.0-120	
2,2-Oxybis(1-Chloropropane)	0.666	0.393	59.0	23.0-120	
4-Bromophenyl-phenylether	0.666	0.486	73.0	40.0-120	
2-Chloronaphthalene	0.666	0.412	61.9	35.0-120	

Laborator Contro Samp e LCS

LCS 4123820-1 09/24/24 10:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Chlorophenyl-phenylether	0.666	0.448	67.3	40.0-120	
Chrysene	0.666	0.531	79.7	43.0-120	
Dibenz(a,h)anthracene	0.666	0.533	80.0	44.0-120	
3,3-Dichlorobenzidine	1.33	0.991	74.5	28.0-120	
2,4-Dinitrotoluene	0.666	0.547	82.1	45.0-120	
2,6-Dinitrotoluene	0.666	0.505	75.8	42.0-120	
Fluoranthene	0.666	0.528	79.3	44.0-120	
Fluorene	0.666	0.470	70.6	41.0-120	
Hexachlorobenzene	0.666	0.468	70.3	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.344	51.7	15.0-120	
Hexachlorocyclopentadiene	0.666	0.235	35.3	15.0-120	
Hexachloroethane	0.666	0.379	56.9	17.0-120	
Indeno(1,2,3-cd)pyrene	0.666	0.498	74.8	45.0-120	
Isophorone	0.666	0.358	53.8	23.0-120	
Naphthalene	0.666	0.338	50.8	18.0-120	
Nitrobenzene	0.666	0.378	56.8	17.0-120	
n-Nitrosodimethylamine	0.666	0.493	74.0	10.0-125	
n-Nitrosodiphenylamine	0.666	0.488	73.3	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.419	62.9	26.0-120	
Phenanthrene	0.666	0.496	74.5	42.0-120	
Benzylbutyl phthalate	0.666	0.591	88.7	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.582	87.4	41.0-120	
Di-n-butyl phthalate	0.666	0.551	82.7	43.0-120	
Diethyl phthalate	0.666	0.497	74.6	43.0-120	
Dimethyl phthalate	0.666	0.483	72.5	43.0-120	
Di-n-octyl phthalate	0.666	0.578	86.8	40.0-120	
Pyrene	0.666	0.528	79.3	41.0-120	
1,2,4-Trichlorobenzene	0.666	0.339	50.9	17.0-120	
4-Chloro-3-methylphenol	0.666	0.400	60.1	28.0-120	
2-Chlorophenol	0.666	0.417	62.6	28.0-120	
2,4-Dichlorophenol	0.666	0.395	59.3	25.0-120	
2,4-Dimethylphenol	0.666	0.367	55.1	15.0-120	
4,6-Dinitro-2-methylphenol	0.666	0.645	96.8	16.0-120	
2,4-Dinitrophenol	0.666	0.552	82.9	10.0-120	
2-Nitrophenol	0.666	0.418	62.8	20.0-120	
4-Nitrophenol	0.666	0.549	82.4	27.0-120	
Pentachlorophenol	0.666	0.441	66.2	29.0-120	
Phenol	0.666	0.431	64.7	28.0-120	
2,4,6-Trichlorophenol	0.666	0.426	64.0	37.0-120	
(S) 2-Fluorophenol			*70.0*	*12.0-120*	

Laborator Contro Samp e LCS

LCS 4123820-1 09/24/24 10:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) Phenol-d5			*64.6*	*10.0-120*	
(S) Nitrobenzene-d5			*52.3*	*10.0-122*	
(S) 2-Fluorobiphenyl			*62.8*	*15.0-120*	
(S) 2,4,6-Tribromophenol			*71.9*	*10.0-127*	
(S) p-Terphenyl-d14			*79.0*	*10.0-120*	

L1778896-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778896-01 09/24/24 13:57 MS 4123820-3 09/24/24 14:18 MS 4123820-4 09/24/24 14:40

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.699	U	0.554	0.559	79.3	80.7	50	18.0-120			0.763	32
Acenaphthylene	0.699	U	0.561	0.564	80.2	81.4	50	25.0-120			0.567	32
Anthracene	0.699	U	0.626	0.624	89.5	90.2	50	22.0-120			0.170	29
Benzidine	1.40	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	40
Benzo(a)anthracene	0.699	0.534	1.00	0.896	67.0	52.3	50	25.0-120			11.2	29
Benzo(b)fluoranthene	0.699	0.814	1.32	1.23	72.0	60.4	50	19.0-122			6.67	31
Benzo(k)fluoranthene	0.699	U	0.826	0.807	118	117	50	23.0-120			2.34	30
Benzo(g,h,i)perylene	0.699	0.413	0.811	0.696	57.0	40.8	50	10.0-120			15.4	33
Benzo(a)pyrene	0.699	0.603	1.12	1.04	73.3	63.0	50	24.0-120			7.00	30
Bis(2-chlorethoxy)methane	0.699	U	0.563	0.579	80.5	83.6	50	10.0-120			2.79	34
Bis(2-chloroethyl)ether	0.699	U	0.592	0.610	84.7	88.0	50	10.0-120			3.01	40
2,2-Oxybis(1-Chloropropane)	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	40
4-Bromophenyl-phenylether	0.699	U	U	U	0.000	0.000	50	27.0-120	6	6	0.000	30
2-Chloronaphthalene	0.699	U	0.557	0.543	79.6	78.4	50	20.0-120			2.51	32
4-Chlorophenyl-phenylether	0.699	U	U	U	0.000	0.000	50	24.0-120	6	6	0.000	29
Chrysene	0.699	0.428	1.06	0.965	90.7	77.6	50	21.0-120			9.53	29
Dibenz(a,h)anthracene	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	32
3,3-Dichlorobenzidine	1.40	U	0.987	1.06	70.4	76.9	50	10.0-120			7.36	34
2,4-Dinitrotoluene	0.699	U	U	0.553	0.000	79.9	50	30.0-120	6	3	200	31
2,6-Dinitrotoluene	0.699	U	U	U	0.000	0.000	50	25.0-120	6	6	0.000	31
Fluoranthene	0.699	1.05	1.25	1.08	29.5	5.21	50	18.0-126		6	14.5	32
Fluorene	0.699	U	0.574	0.619	82.1	89.4	50	25.0-120			7.66	30
Hexachlorobenzene	0.699	U	U	U	0.000	0.000	50	27.0-120	6	6	0.000	28
Hexachloro-1,3-butadiene	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	38
Hexachlorocyclopentadiene	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	40
Hexachloroethane	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	40
Indeno(1,2,3-cd)pyrene	0.699	U	0.737	0.646	105	93.3	50	10.0-120			13.2	32
Isophorone	0.699	U	U	0.546	0.000	78.8	50	13.0-120	6	3	200	34

CONFIDENTIAL
No reliance without separate reliance agreement.

L1778896-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1778896-01 09/24/24 13:57 MS 4123820-3 09/24/24 14:18 MS 4123820-4 09/24/24 14:40

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg				%	%		%			%	%
Naphthalene	0.699	U	0.544	0.531	77.8	76.7	50	10.0-120			2.37	35
Nitrobenzene	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	36
n-Nitrosodimethylamine	0.699	U	U	U	0.000	0.000	50	10.0-127	6	6	0.000	40
n-Nitrosodiphenylamine	0.699	U	U	U	0.000	0.000	50	17.0-120	6	6	0.000	29
n-Nitrosodi-n-propylamine	0.699	U	0.622	U	89.1	0.000	50	10.0-120		3 6	200	37
Phenanthrene	0.699	0.352	0.724	0.665	104	96.0	50	17.0-120			8.56	31
Benzylbutyl phthalate	0.699	U	0.675	0.814	96.7	117	50	23.0-120			18.5	30
Bis(2-ethylhexyl)phthalate	0.699	U	U	U	0.000	0.000	50	17.0-126	6	6	0.000	30
Di-n-butyl phthalate	0.699	U	0.606	0.663	86.8	95.7	50	30.0-120			8.87	29
Diethyl phthalate	0.699	U	0.584	0.669	0.000	96.6	50	26.0-120	6	3	200	28
Dimethyl phthalate	0.699	U	U	U	81.9	81.4	50	25.0-120			1.50	29
Di-n-octyl phthalate	0.699	U	U	U	0.000	0.000	50	21.0-123	6	6	0.000	29
Pyrene	0.699	0.981	1.26	1.06	40.4	11.7	50	16.0-121		6	17.4	32
1,2,4-Trichlorobenzene	0.699	U	0.570	U	81.6	0.000	50	12.0-120		3 6	200	37
4-Chloro-3-methylphenol	0.699	U	0.596	0.593	85.3	85.6	50	15.0-120			0.536	30
2-Chlorophenol	0.699	U	U	U	0.000	0.000	50	15.0-120	6	6	0.000	37
2,4-Dichlorophenol	0.699	U	0.562	0.568	80.4	82.1	50	20.0-120			1.13	31
2,4-Dimethylphenol	0.699	U	0.559	0.563	79.9	81.3	50	10.0-120			0.758	33
4,6-Dinitro-2-methylphenol	0.699	U	U	U	0.000	0.000	50	10.0-120	6	6	0.000	39
2,4-Dinitrophenol	0.699	U	U	U	0.000	0.000	50	10.0-121	6	6	0.000	40
2-Nitrophenol	0.699	U	0.639	U	91.5	0.000	50	12.0-120		3 6	200	39
4-Nitrophenol	0.699	U	U	U	0.000	0.000	50	10.0-137	6	6	0.000	32
Pentachlorophenol	0.699	U	U	U	0.000	0.000	50	10.0-160	6	6	0.000	31
Phenol	0.699	U	U	U	0.000	0.000	50	12.0-120	6	6	0.000	38
2,4,6-Trichlorophenol	0.699	U	U	U	0.000	0.000	50	19.0-120	6	6	0.000	32
(S) 2-Fluorophenol					*82.1*	*85.6*		*12.0-120*	7	7		
(S) Phenol-d5					*81.5*	*77.3*		*10.0-120*	7	7		
(S) Nitrobenzene-d5					*82.7*	*86.2*		*10.0-122*	7	7		
(S) 2-Fluorobiphenyl					*69.6*	*78.2*		*15.0-120*	7	7		
(S) 2,4,6-Tribromophenol					*61.2*	*65.6*		*10.0-127*	7	7		
(S) p-Terphenyl-d14					*88.4*	*92.9*		*10.0-120*	7	7		

Sample Narrative:

OS: Dilution due to matrix impact during extract concentration procedure.

u de to ead ng and Understand ng our Laborator eport

The nformat on be o s des gned to better e p a n the ar ous terms used n our report of ana t ca resu ts from the Laborator Th s s not ntended as a comprehens e e p anat on, and f ou ha e add t ona uest ons p ease contact our project representat e

esu ts sc a mer - Informat on that ma be pro ded b the customer, and conta ned th n th s report, nc ude Perm t L m ts, Project ame, Samp e I , Samp e Matr , Samp e Preser at on, e d an s, e d Sp es, e d up cates, n-S te ata, Samp ng Co ect on ates/T mes, and Samp ng Locat on esu ts re ate to the accurac of th s nformat on pro ded, and as the samp es are rece ed

Abbre at ons and ef n t ons

dr	esu ts are reported based on the dr e ght of the samp e th s on be present on a dr report bas s for so s
M L	Method etect on L m t
M L dr	Method etect on L m t
L	eported etect on L m t
L dr	eported etect on L m t
ec	eco er
P	e at e Percent fference
S	Samp e e er roup
S	Surrogate Surrogate Standard - Ana tes added to e er b an , samp e, Laborator Contro Samp e/ up cate and Matr Sp e/ up cate used to e a uate ana t ca eff c enc b measur ng reco er Surrogates are not e pected to be detected n a en ronmenta med a
U	ot detected at the eport ng L m t or M L here app cab e
Ana te	The name of the part cu ar compound or ana s s performed Some Ana ses and Methods ha e mu t p e ana tes reported
ut on	If the samp e matr conta ns an nterfer ng mater a , the samp e preparat on o ume or e ght a ues d ffer from the standard, or f concentrat ons of ana tes n the samp e are h gher than the h ghest m t of concentrat on that the aborator can accurate report, the samp e ma be d uted for ana s s If a a ue d fferent than 1 s used n th s f e d, the resu t reported has a read been corrected for th s factor
L m ts	These are the target reco er ranges or d fference a ue that the aborator has h stor ca determ ned as norma for the method and ana te be ng reported Successfu C Samp e ana s s target a ana tes reco ered or dup cated th n these ranges
r g na Samp e	The non-sp ed samp e n the prep batch used to determ ne the e at e Percent fference P from a ua t contro samp e The r g na Samp e ma not be nc uded th n the reported S
ua f er	Th s co umn pro des a etter and/or number des gnat on that corresponds to add t ona nformat on concern ng the resu t reported If a ua f er s present, a def n t on per ua f er s pro ded th n the ossar and ef n t ons page and potent a a d scuss on of poss b e mp cat ons of the ua f er n the Case arrat e f app cab e
esu t	The actua ana t ca f na resu t corrected for an samp e spec f c character st cs reported for our samp e If there as no measurab e resu t returned for a spec f c ana te, the resu t n th s co umn ma state ot etected or L e o etectab e Le e s The nformat on n the resu ts co umn shou d a a s be accompan ed b e ther an M L Method etect on L m t or L eport ng etect on L m t that def nes the o est a ue that the aborator cou d detect or report for th s ana te
Uncerta nt ad ochem str	Conf dence e e of 2 s gma
Case arrat e Cn	A br ef d scuss on about the nc uded samp e resu ts, nc ud ng a d scuss on of an non-conformances to protoco obser ed e ther at samp e rece pt b the aborator from the f e d or dur ng the ana t ca process If present, there be a sect on n the Case arrat e to d scuss the mean ng of an data ua f ers used n the report
ua t Contro Summar c	Th s sect on of the report nc udes the resu ts of the aborator ua t contro ana ses re u red b procedure or ana t ca methods to ass st n e a uat ng the a d t of the resu ts reported for our samp es These ana ses are not be ng performed on our samp es t p ca , but on aborator generated mater a
Samp e Cha n of Custod Sc	Th s s the document created n the f e d hen our samp es ere n t a co ected Th s s used to er f the t me and date of co ect on, the person co ect ng the samp es, and the ana ses that the aborator s re uested to perform Th s cha n of custod a so documents a persons e c ud ng commerc a sh ppers that ha e had contro or possess on of the samp es from the t me of co ect on unt de er to the aborator for ana s s
Samp e esu ts Sr	Th s sect on of our report pro de the resu ts of a test ng performed on our samp es These resu ts are pro ded b samp e I and are separated b the ana ses performed on each samp e The header ne of each ana s s sect on for each samp e pro de the name and method number for the ana s s reported
Samp e Summar Ss	Th s sect on of the Ana t ca eport def nes the spec f c ana ses performed for each samp e I , nc ud ng the dates and t mes of preparat on and/or ana s s

ua f er escr pt on

	The same ana te s found n the assoc ated b an
E	The ana te concentrat on e ceeds the upper m t of the ca brat on range of the nstrument estab shed b the n t a ca brat on ICAL
	The dent f cat on of the ana te s acceptab e the reported a ue s an est mate
2	Surrogate reco er m ts ha e been e ceeded a ues are outs de o er contro m ts
3	The assoc ated batch C as outs de the estab shed ua t contro range for prec s on
4	The assoc ated batch C as outs de the estab shed ua t contro range for accurac
5	The samp e matr nterfered th the ab t to ma e an accurate determ nat on sp e a ue s h gh
6	The samp e matr nterfered th the ab t to ma e an accurate determ nat on sp e a ue s o
7	Surrogate reco er cannot be used for contro m t e a uat on due to d ut on

ua f er	escr pt on
P	P bet een the pr mar and conf rmator ana s s e ceeded 40

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ACC E ITATI S L CATI S

Pace Ana t ca at ona 12065 Lebanon d Mount u et, T 37122

Ala ama		Ne raska	N OS
Alaska		Nevada	N
Ari ona	A	Ne ampshire	
Arkansas		Ne ersey N LAP	N
California		Ne Me ico	N
Colorado	N	Ne ork	
Connecticut	P	North Carolina	nv
lorida		North Carolina	D
eorgia	N LAP	North Carolina	
eorgia		North Dakota	R
daho	N	Ohio AP	CL
llinois		Oklahoma	
ndiana	C N	Oregon	N
o a		Pennsylvania	
ansas		Rhode sland	LAO
entucky		South Carolina	
entucky		South Dakota	n a
Louisiana	A	ennessee	
Louisiana	LA	e as	
Maine	N	e as	LAB
Maryland		Utah	N
Massachusetts	M N	ermont	
Michigan		irginia	
Minnesota		ashington	C
Mississippi	N	est irginia	
Missouri		isconsin	
Montana	C R	yoming	A LA
A LA SO	.	A A LAP LLC MLAP	
A LA SO	.	DOD	.
Canada	.	USDA	P
PA Crypto	N		

Drinking ater Underground Storage anks A uatic o icity Chemical Micro iological Mold aste ater n a Accreditation not applica le
Not all certifications held y the la oratory are applica le to the results reported in the attached report.
Accreditation is only applica le to the test methods specified on each scope of accreditation held y Pace Analytical.

Company Name/Address:
Tetra Tech EMI - Houston, TX

1500 CityWest Boulevard
Suite 1000
Houston, TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to: Diana Eldam/Manuela Pastrano

Email To: manuela.pastrano@tetratech.com;diana.eldam

Project Description: DR Horton - (COR) Keller Crossing Phase II

City/State Collected:

Please Circle: PT MT CT ET

Phone: 832-251-5160

Client Project #

Lab Project # TETRAHTX-KELLER

Collected by (print): Janine Angenent

Site/Facility ID #

P.O. #

Collected by (signature): Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
✓ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	DROCA, SV8270 8ozClr-NoPres	GROCA 40mlAmb/MeOH 10ml/Syr	MRCRA8 8ozClr-NoPres	SV8081,SV8141,SV8151 8ozClr-NoPres	V8260 40mlAmb/MeOH 10ml/Syr	Remarks	Sample # (lab only)
Area16-Comp	Comp	SS	0-0.5	9/18/24	0920	3	X	X	X	X	X		-01
Area16-1-0.5	Grab	SS	0-0.5		0825							Hold Sample	-02
Area16-1-2		SS	1-2		0830								-03
Area16-2-0.5		SS	0-0.5		0835								-04
Area16-2-2		SS	1-2		0840								-05
Area16-3-0.5		SS	0-0.5		0850								-06
Area16-3-2		SS	1-2		0855								-07
Area16-4-0.5		SS	0-0.5		0900								-08
Area16-4-2		SS	1-2		0905								-09
Area16-5-0.5		SS	0-0.5		0910								-10

Chain of Custody Page 1 of 2

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MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1179391
C233
Ta
Acctnum: TETRAHTX
Template: T259305
Prelogin: P1097763
PM: 3564 - Chad A Upchurch
PB:
Shipped Via: FedEX Standard

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other ___

Remarks: All discrete soil samples will be placed on hold for the same analytes at the lab, pending the results of the Composite Soil sample.

pH ___ Temp ___
Flow ___ Other ___

Samples returned via: __ UPS __ FedEx __ Courier ___

Tracking # 7464 0847 8207

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes No HCL / MeoH TBR
	9/18/24	1445		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: TR# 0.8+0.3=1.1 33
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 09/19/2024 Time: 0900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

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Company Name/Address:
Tetra Tech EMI - Houston, TX

1500 CityWest Boulevard
Suite 1000
Houston, TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to:
Diana Eldam/Manuela Pastrano

Email To:
manuela.pastrano@tetratech.com;diana.eldam

Project Description:
DR Horton - (COR) Keller Crossing Phase II

City/State Collected:

Please Circle: PT MT CT ET

Phone: **832-251-5160**

Client Project #

Lab Project #
TETRAHTX-KELLER

Collected by (print):
Janine Angenend

Site/Facility ID #

P.O. #

Collected by (signature):
Immediately
Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	DROCA, SV8270 8ozClr-NoPres	GROCA 40mlAmb/MeOH10ml/Syr	MRCRA8 8ozClr-NoPres	SV8081,SV8141,SV8151 8ozClr-NoPres	V8260 40mlAmb/MeOH10ml/Syr						Remarks	Sample # (lab only)
Area 16-5-2	Grab	SS	1-2	9/18/24	0915	3											Hold sample -11	
		SS																
		SS																
		SS																
		SS																
		SS																
		SS																
		SS																
		SS																
		SS																

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # U779391

Table #

Acctnum: **TETRAHTX**
Template: **T259305**
Prelogin: **P1097763**
PM: **3564 - Chad A Upchurch**
PB:

Shipped Via: **FedEX Standard**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: See page 1 Remarks.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	9/18/24	1445			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.8+0.3=1.1 °C	Bottles Received: 33
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 09/19/24	Time: 900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

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ANALYTICAL REPORT

September 20, 2024

Tetra Tech EMI - Houston, TX

Samp e e er roup: L1777207

Samp es ece ed: 09/12/2024

Project umber:

escr pt on: Horton - C e er Cross ng Phase II

eport To: ana E dam/Manue a Pastrano
1500 C t est ou e ard
Su te 1000
Houston, TX 77042

Ent re eport e e ed :

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

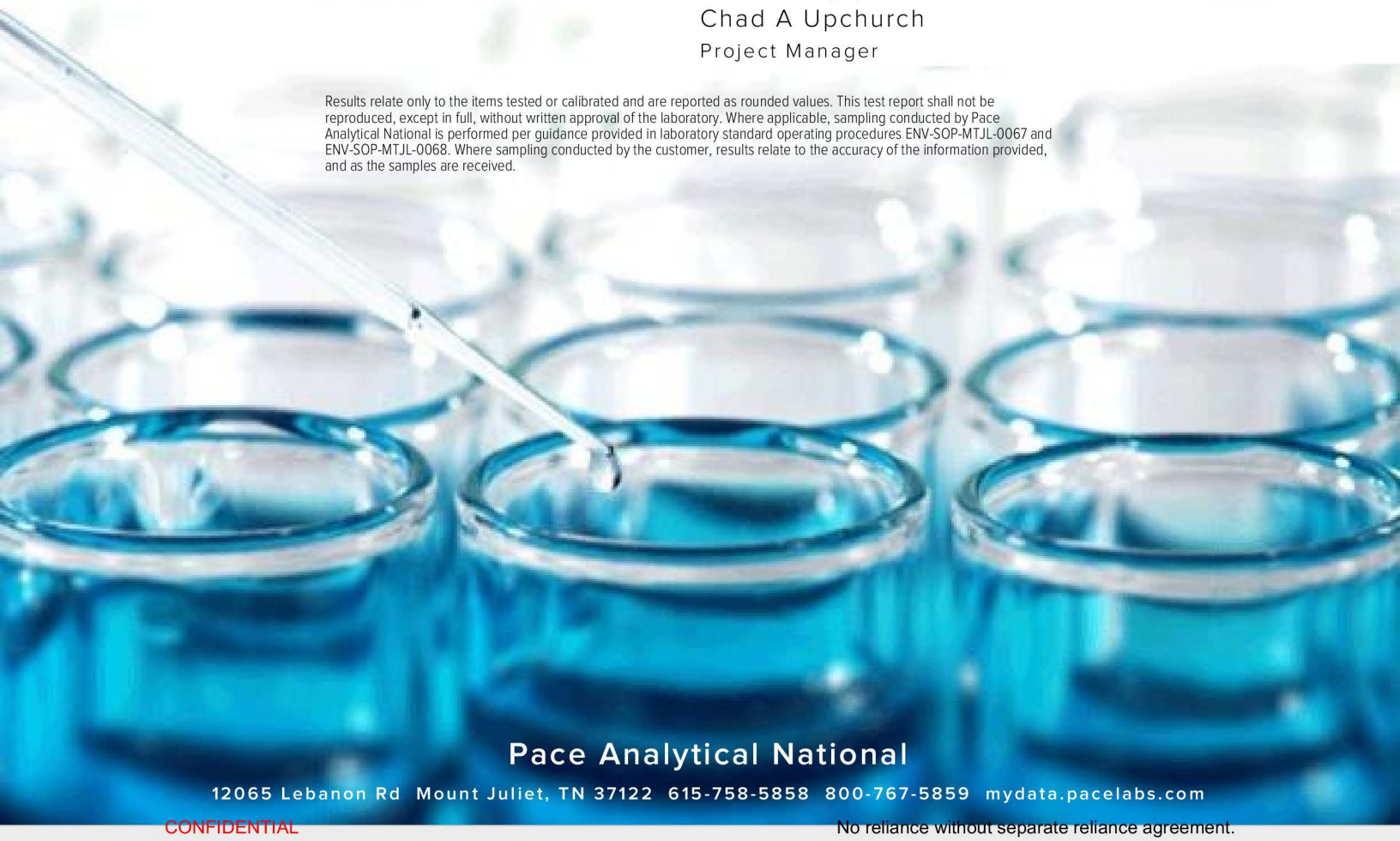


TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

AREA 17-COMP L1777207-01 5

Qc: Quality Control Summary 10

Total Solids by Method 2540 G-2011 10

Mercury by Method 7471A 11

Metals (ICP) by Method 6010D 12

Volatile Organic Compounds (GC) by Method 8015 13

Volatile Organic Compounds (GC/MS) by Method 8260B 14

Semi-Volatile Organic Compounds (GC) by Method 8015 18

Chlorinated Acid Herbicides (GC) by Method 8151 19

OP Pesticides by Method 8141 21

Pesticides (GC) by Method 8081 24

Semi Volatile Organic Compounds (GC/MS) by Method 8270C 26

Gl: Glossary of Terms 31

Al: Accreditations & Locations 32

Sc: Sample Chain of Custody 33

A EA 17-C MP L1777207-01 So d

Collected by: J.A.
Collected date/time: 09/11/24 09:30
Received date/time: 09/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2362343	1	09/14/24 09:38	09/14/24 09:50	CMB	Mt. Juliet, TN
Mercury by Method 7471A	WG2362413	1	09/14/24 15:44	09/15/24 15:35	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362655	1	09/14/24 17:15	09/14/24 19:32	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG2362169	27.8	09/11/24 09:30	09/13/24 21:36	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2362311	1.11	09/11/24 09:30	09/13/24 21:45	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG2362676	5	09/15/24 08:27	09/16/24 14:43	JSS	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151	WG2361757	1	09/14/24 06:22	09/15/24 02:40	HCS	Mt. Juliet, TN
OP Pesticides by Method 8141	WG2362681	1	09/15/24 15:35	09/16/24 13:32	HMH	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG2362484	1	09/14/24 11:45	09/15/24 00:55	HCS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2364587	10	09/18/24 07:42	09/19/24 20:03	DSH	Mt. Juliet, TN

A samp e a uots ere rece ed at the correct temperature, n the proper conta ners, th the appropr ate preser at es, and th n method spec f ed ho d ng t mes, un ess ua f ed or notated th n the report here app cab e, a M L L and L L a ues reported for en ronmenta samp es ha e been corrected for the d ut on factor used n the ana s s A Method and atch ua t Contro are th n estab shed cr ter a e cept here addressed n th s case narrat e, a non-conformance form or proper ua f ed th n the samp e resu ts m d g ta s gnature be o , l aff rm to the best of m no edge, a prob ems/anoma es obser ed b the aborator as ha ng the potent a to affect the ua t of the data ha e been dent f ed b the aborator , and no nformat on or data ha e been no ng thhe d that ou d affect the ua t of the data



Chad A Upchurch
Project Manager

Project arrat e

2364587: He ach oroc c opentad ne s report ng th cr t ca o reco er n the aborator contro samp e s Th s compound s a method def ned poor performer esu ts are est mated

Tota So ds b Method 2540 -2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.4		1	09/14/2024 09:50	WG2362343

Mercur b Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0441		0.0185	0.0411	1	09/15/2024 15:35	WG2362413

Meta s ICP b Method 6010

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.05		0.532	2.05	1	09/14/2024 19:32	WG2362655
Barium	156		0.0875	0.513	1	09/14/2024 19:32	WG2362655
Cadmium	0.192	_	0.0484	0.513	1	09/14/2024 19:32	WG2362655
Chromium	17.3		0.137	1.03	1	09/14/2024 19:32	WG2362655
Lead	10.5		0.214	0.513	1	09/14/2024 19:32	WG2362655
Selenium	1.45	_	0.784	2.05	1	09/14/2024 19:32	WG2362655
Silver	0.468	_	0.130	1.03	1	09/14/2024 19:32	WG2362655

o at e rgan c Compounds C b Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	2.03	__	0.970	2.92	27.8	09/13/2024 21:36	WG2362169
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*77.0-120*		*09/13/2024 21:36*	WG2362169

o at e rgan c Compounds C/MS b Method 8260

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0426	0.0583	1.11	09/13/2024 21:45	WG2362311
Acrylonitrile	U		0.00421	0.0146	1.11	09/13/2024 21:45	WG2362311
Benzene	U		0.000544	0.00117	1.11	09/13/2024 21:45	WG2362311
Bromobenzene	U		0.00105	0.0146	1.11	09/13/2024 21:45	WG2362311
Bromodichloromethane	U		0.000846	0.00292	1.11	09/13/2024 21:45	WG2362311
Bromoform	U		0.00137	0.0292	1.11	09/13/2024 21:45	WG2362311
Bromomethane	U		0.00230	0.0146	1.11	09/13/2024 21:45	WG2362311
n-Butylbenzene	U		0.00613	0.0146	1.11	09/13/2024 21:45	WG2362311
sec-Butylbenzene	U		0.00336	0.0146	1.11	09/13/2024 21:45	WG2362311
tert-Butylbenzene	U		0.00227	0.00583	1.11	09/13/2024 21:45	WG2362311
Carbon tetrachloride	U		0.00105	0.00583	1.11	09/13/2024 21:45	WG2362311
Chlorobenzene	U		0.000245	0.00292	1.11	09/13/2024 21:45	WG2362311
Chlorodibromomethane	U		0.000713	0.00292	1.11	09/13/2024 21:45	WG2362311
Chloroethane	U		0.00199	0.00583	1.11	09/13/2024 21:45	WG2362311
Chloroform	U		0.00120	0.00292	1.11	09/13/2024 21:45	WG2362311
Chloromethane	U		0.00507	0.0146	1.11	09/13/2024 21:45	WG2362311
2-Chlorotoluene	U		0.00101	0.00292	1.11	09/13/2024 21:45	WG2362311
4-Chlorotoluene	U		0.000525	0.00583	1.11	09/13/2024 21:45	WG2362311
1,2-Dibromo-3-Chloropropane	U		0.00455	0.0292	1.11	09/13/2024 21:45	WG2362311
1,2-Dibromoethane	U		0.000755	0.00292	1.11	09/13/2024 21:45	WG2362311
Dibromomethane	U		0.000875	0.00583	1.11	09/13/2024 21:45	WG2362311
1,2-Dichlorobenzene	U		0.000496	0.00583	1.11	09/13/2024 21:45	WG2362311
1,3-Dichlorobenzene	U		0.000700	0.00583	1.11	09/13/2024 21:45	WG2362311
1,4-Dichlorobenzene	U		0.000816	0.00583	1.11	09/13/2024 21:45	WG2362311
Dichlorodifluoromethane	U		0.00188	0.00583	1.11	09/13/2024 21:45	WG2362311
1,1-Dichloroethane	U		0.000573	0.00292	1.11	09/13/2024 21:45	WG2362311

o at e rgan c Compounds C/MS b Method 8260

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000756	0.00292	1.11	09/13/2024 21:45	WG2362311
1,1-Dichloroethene	U		0.000707	0.00292	1.11	09/13/2024 21:45	WG2362311
cis-1,2-Dichloroethene	U		0.000856	0.00292	1.11	09/13/2024 21:45	WG2362311
trans-1,2-Dichloroethene	U		0.00121	0.00583	1.11	09/13/2024 21:45	WG2362311
1,2-Dichloropropane	U		0.00166	0.00583	1.11	09/13/2024 21:45	WG2362311
1,1-Dichloropropene	U		0.000943	0.00292	1.11	09/13/2024 21:45	WG2362311
1,3-Dichloropropane	U		0.000584	0.00583	1.11	09/13/2024 21:45	WG2362311
cis-1,3-Dichloropropene	U		0.000883	0.00292	1.11	09/13/2024 21:45	WG2362311
trans-1,3-Dichloropropene	U		0.00133	0.00583	1.11	09/13/2024 21:45	WG2362311
2,2-Dichloropropane	U		0.00161	0.00292	1.11	09/13/2024 21:45	WG2362311
Di-isopropyl ether	U		0.000478	0.00117	1.11	09/13/2024 21:45	WG2362311
Ethylbenzene	U		0.000859	0.00292	1.11	09/13/2024 21:45	WG2362311
Hexachloro-1,3-butadiene	U		0.00700	0.0292	1.11	09/13/2024 21:45	WG2362311
Isopropylbenzene	U		0.000496	0.00292	1.11	09/13/2024 21:45	WG2362311
p-Isopropyltoluene	U		0.00297	0.00583	1.11	09/13/2024 21:45	WG2362311
2-Butanone (MEK)	U		0.0741	0.117	1.11	09/13/2024 21:45	WG2362311
Methylene Chloride	U		0.00774	0.0292	1.11	09/13/2024 21:45	WG2362311
4-Methyl-2-pentanone (MIBK)	U		0.00266	0.0292	1.11	09/13/2024 21:45	WG2362311
Methyl tert-butyl ether	U		0.000409	0.00117	1.11	09/13/2024 21:45	WG2362311
Naphthalene	U		0.00569	0.0146	1.11	09/13/2024 21:45	WG2362311
n-Propylbenzene	U		0.00110	0.00583	1.11	09/13/2024 21:45	WG2362311
Styrene	U		0.000267	0.0146	1.11	09/13/2024 21:45	WG2362311
1,1,1,2-Tetrachloroethane	U		0.00110	0.00292	1.11	09/13/2024 21:45	WG2362311
1,1,2,2-Tetrachloroethane	U		0.000810	0.00292	1.11	09/13/2024 21:45	WG2362311
1,1,2-Trichlorotrifluoroethane	U		0.000879	0.00292	1.11	09/13/2024 21:45	WG2362311
Tetrachloroethene	U		0.00105	0.00292	1.11	09/13/2024 21:45	WG2362311
Toluene	U		0.00151	0.00583	1.11	09/13/2024 21:45	WG2362311
1,2,3-Trichlorobenzene	U		0.00855	0.0146	1.11	09/13/2024 21:45	WG2362311
1,2,4-Trichlorobenzene	U		0.00513	0.0146	1.11	09/13/2024 21:45	WG2362311
1,1,1-Trichloroethane	U		0.00107	0.00292	1.11	09/13/2024 21:45	WG2362311
1,1,2-Trichloroethane	U		0.000697	0.00292	1.11	09/13/2024 21:45	WG2362311
Trichloroethene	U		0.000681	0.00117	1.11	09/13/2024 21:45	WG2362311
Trichlorofluoromethane	U		0.000964	0.00292	1.11	09/13/2024 21:45	WG2362311
1,2,3-Trichloropropane	U		0.00189	0.0146	1.11	09/13/2024 21:45	WG2362311
1,2,4-Trimethylbenzene	U		0.00184	0.00583	1.11	09/13/2024 21:45	WG2362311
1,2,3-Trimethylbenzene	U		0.00184	0.00583	1.11	09/13/2024 21:45	WG2362311
1,3,5-Trimethylbenzene	U		0.00233	0.00583	1.11	09/13/2024 21:45	WG2362311
Vinyl chloride	U		0.00136	0.00292	1.11	09/13/2024 21:45	WG2362311
Xylenes, Total	U		0.00103	0.00759	1.11	09/13/2024 21:45	WG2362311
(S) Toluene-d8	*103*			*75.0-131*		*09/13/2024 21:45*	WG2362311
(S) 4-Bromofluorobenzene	*95.6*			*67.0-138*		*09/13/2024 21:45*	WG2362311
(S) 1,2-Dichloroethane-d4	*92.9*			*70.0-130*		*09/13/2024 21:45*	WG2362311

Sem - o at e rgan c Compounds C b Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	41.1		3.77	20.5	5	09/16/2024 14:43	WG2362676
(S) o-Terphenyl	*66.8*			*18.0-148*		*09/16/2024 14:43*	WG2362676

Ch or nated Ac d Herb c des C b Method 8151

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.00721	0.0719	1	09/15/2024 02:40	WG2361757
Dalapon	U		0.0116	0.0719	1	09/15/2024 02:40	WG2361757
2,4-DB	U		0.0305	0.0719	1	09/15/2024 02:40	WG2361757
Dicamba	U		0.0161	0.0719	1	09/15/2024 02:40	WG2361757
Dichloroprop	U		0.0252	0.0719	1	09/15/2024 02:40	WG2361757
Dinoseb	U		0.00716	0.0719	1	09/15/2024 02:40	WG2361757
MCPA	U		0.455	6.67	1	09/15/2024 02:40	WG2361757
MCPP	U		0.377	6.67	1	09/15/2024 02:40	WG2361757
2,4,5-T	U		0.00875	0.0719	1	09/15/2024 02:40	WG2361757
2,4,5-TP (Silvex)	U		0.0110	0.0719	1	09/15/2024 02:40	WG2361757
(S) 2,4-Dichlorophenyl Acetic Acid	*41.0*			*22.0-132*		*09/15/2024 02:40*	WG2361757

P Pest c des b Method 8141

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Azinphos-Methyl	U		0.0326	0.103	1	09/16/2024 13:32	WG2362681
Bolstar (Sulprofos)	U		0.0153	0.103	1	09/16/2024 13:32	WG2362681
Chlorpyrifos	U		0.0161	0.103	1	09/16/2024 13:32	WG2362681
Coumaphos	U		0.0249	0.103	1	09/16/2024 13:32	WG2362681
Demeton,-O and -S	U		0.00600	0.0719	1	09/16/2024 13:32	WG2362681
Diazinon	U		0.0231	0.103	1	09/16/2024 13:32	WG2362681
Dichlorvos	U		0.0308	0.103	1	09/16/2024 13:32	WG2362681
Dimethoate	U		0.0343	0.103	1	09/16/2024 13:32	WG2362681
Disulfoton	U		0.0261	0.103	1	09/16/2024 13:32	WG2362681
EPN	U		0.0283	0.103	1	09/16/2024 13:32	WG2362681
Ethoprop	U		0.0121	0.103	1	09/16/2024 13:32	WG2362681
Ethyl Parathion	U	4	0.0168	0.103	1	09/16/2024 13:32	WG2362681
Fensulfothion	U		0.0362	0.103	1	09/16/2024 13:32	WG2362681
Fenthion	U		0.0137	0.103	1	09/16/2024 13:32	WG2362681
Malathion	U		0.0184	0.103	1	09/16/2024 13:32	WG2362681
Merphos	U		0.0238	0.103	1	09/16/2024 13:32	WG2362681
Methyl parathion	U		0.0208	0.103	1	09/16/2024 13:32	WG2362681
Mevinphos	U		0.0236	0.103	1	09/16/2024 13:32	WG2362681
Naled	U		0.0493	0.103	1	09/16/2024 13:32	WG2362681
Phorate	U		0.0216	0.103	1	09/16/2024 13:32	WG2362681
Ronnel	U		0.0153	0.103	1	09/16/2024 13:32	WG2362681
Stirophos	U		0.0183	0.103	1	09/16/2024 13:32	WG2362681
Sulfotep	U	4	0.0101	0.103	1	09/16/2024 13:32	WG2362681
TEPP	U		0.161	1.03	1	09/16/2024 13:32	WG2362681
Tokuthion (Prothothiofos)	U		0.0154	0.103	1	09/16/2024 13:32	WG2362681
Trichloronate	U		0.0206	0.103	1	09/16/2024 13:32	WG2362681
(S) Triphenyl Phosphate	*104*			*36.0-121*		*09/16/2024 13:32*	WG2362681

Pest c des C b Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00386	0.0205	1	09/15/2024 00:55	WG2362484
Alpha BHC	U		0.00378	0.0205	1	09/15/2024 00:55	WG2362484
Beta BHC	U		0.00389	0.0205	1	09/15/2024 00:55	WG2362484
Delta BHC	U		0.00355	0.0205	1	09/15/2024 00:55	WG2362484
Gamma BHC	U		0.00353	0.0205	1	09/15/2024 00:55	WG2362484
4,4-DDD	U		0.00380	0.0205	1	09/15/2024 00:55	WG2362484
4,4-DDE	U		0.00376	0.0205	1	09/15/2024 00:55	WG2362484
4,4-DDT	U		0.00644	0.0205	1	09/15/2024 00:55	WG2362484
Dieldrin	U		0.00353	0.0205	1	09/15/2024 00:55	WG2362484

Pest c des C b Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Endosulfan I	U		0.00373	0.0205	1	09/15/2024 00:55	WG2362484
Endosulfan II	U		0.00344	0.0205	1	09/15/2024 00:55	WG2362484
Endosulfan sulfate	U		0.00374	0.0205	1	09/15/2024 00:55	WG2362484
Endrin	U		0.00359	0.0205	1	09/15/2024 00:55	WG2362484
Endrin aldehyde	U		0.00348	0.0205	1	09/15/2024 00:55	WG2362484
Endrin ketone	U		0.00730	0.0205	1	09/15/2024 00:55	WG2362484
Heptachlor	U		0.00439	0.0205	1	09/15/2024 00:55	WG2362484
Heptachlor epoxide	U		0.00348	0.0205	1	09/15/2024 00:55	WG2362484
Hexachlorobenzene	U		0.00355	0.0205	1	09/15/2024 00:55	WG2362484
Methoxychlor	U		0.00497	0.0205	1	09/15/2024 00:55	WG2362484
Chlordane	U		0.106	0.308	1	09/15/2024 00:55	WG2362484
Toxaphene	U		0.127	0.411	1	09/15/2024 00:55	WG2362484
(S) Decachlorobiphenyl	*34.9*			*10.0-135*		*09/15/2024 00:55*	WG2362484
(S) Tetrachloro-m-xylene	*36.1*			*10.0-139*		*09/15/2024 00:55*	WG2362484

Sem o at e rgan c Compounds C/MS b Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0553	0.342	10	09/19/2024 20:03	WG2364587
Acenaphthylene	U		0.0481	0.342	10	09/19/2024 20:03	WG2364587
Anthracene	U		0.0609	0.342	10	09/19/2024 20:03	WG2364587
Benzidine	U		0.643	17.1	10	09/19/2024 20:03	WG2364587
Benzo(a)anthracene	U		0.0603	0.342	10	09/19/2024 20:03	WG2364587
Benzo(b)fluoranthene	U		0.0638	0.342	10	09/19/2024 20:03	WG2364587
Benzo(k)fluoranthene	U		0.0608	0.342	10	09/19/2024 20:03	WG2364587
Benzo(g,h,i)perylene	U		0.0625	0.342	10	09/19/2024 20:03	WG2364587
Benzo(a)pyrene	U		0.0635	0.342	10	09/19/2024 20:03	WG2364587
Bis(2-chlorethoxy)methane	U		0.103	3.42	10	09/19/2024 20:03	WG2364587
Bis(2-chloroethyl)ether	U		0.113	3.42	10	09/19/2024 20:03	WG2364587
2,2-Oxybis(1-Chloropropane)	U		0.148	3.42	10	09/19/2024 20:03	WG2364587
4-Bromophenyl-phenylether	U		0.120	3.42	10	09/19/2024 20:03	WG2364587
2-Chloronaphthalene	U		0.0601	0.342	10	09/19/2024 20:03	WG2364587
4-Chlorophenyl-phenylether	U		0.119	3.42	10	09/19/2024 20:03	WG2364587
Chrysene	U		0.0680	0.342	10	09/19/2024 20:03	WG2364587
Dibenz(a,h)anthracene	U		0.0948	0.342	10	09/19/2024 20:03	WG2364587
3,3-Dichlorobenzidine	U		0.126	3.42	10	09/19/2024 20:03	WG2364587
2,4-Dinitrotoluene	U		0.0980	3.42	10	09/19/2024 20:03	WG2364587
2,6-Dinitrotoluene	U		0.112	3.42	10	09/19/2024 20:03	WG2364587
Fluoranthene	U		0.0617	0.342	10	09/19/2024 20:03	WG2364587
Fluorene	U		0.0556	0.342	10	09/19/2024 20:03	WG2364587
Hexachlorobenzene	U		0.121	3.42	10	09/19/2024 20:03	WG2364587
Hexachloro-1,3-butadiene	U		0.115	3.42	10	09/19/2024 20:03	WG2364587
Hexachlorocyclopentadiene	U	4	0.180	3.42	10	09/19/2024 20:03	WG2364587
Hexachloroethane	U		0.134	3.42	10	09/19/2024 20:03	WG2364587
Indeno(1,2,3-cd)pyrene	U		0.0966	0.342	10	09/19/2024 20:03	WG2364587
Isophorone	U		0.105	3.42	10	09/19/2024 20:03	WG2364587
Naphthalene	U		0.0858	0.342	10	09/19/2024 20:03	WG2364587
Nitrobenzene	U		0.119	3.42	10	09/19/2024 20:03	WG2364587
n-Nitrosodimethylamine	U		0.507	3.42	10	09/19/2024 20:03	WG2364587
n-Nitrosodiphenylamine	U		0.259	3.42	10	09/19/2024 20:03	WG2364587
n-Nitrosodi-n-propylamine	U		0.114	3.42	10	09/19/2024 20:03	WG2364587
Phenanthrene	U		0.0679	0.342	10	09/19/2024 20:03	WG2364587
Benzylbutyl phthalate	U		0.107	3.42	10	09/19/2024 20:03	WG2364587
Bis(2-ethylhexyl)phthalate	U		0.433	3.42	10	09/19/2024 20:03	WG2364587
Di-n-butyl phthalate	U		0.117	3.42	10	09/19/2024 20:03	WG2364587
Diethyl phthalate	U		0.113	3.42	10	09/19/2024 20:03	WG2364587

Sem o at e rgan c Compounds C/MS b Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dimethyl phthalate	U		0.725	3.42	10	09/19/2024 20:03	WG2364587
Di-n-octyl phthalate	U		0.231	3.42	10	09/19/2024 20:03	WG2364587
Pyrene	U		0.0665	0.342	10	09/19/2024 20:03	WG2364587
1,2,4-Trichlorobenzene	U		0.107	3.42	10	09/19/2024 20:03	WG2364587
4-Chloro-3-methylphenol	U		0.111	3.42	10	09/19/2024 20:03	WG2364587
2-Chlorophenol	U		0.113	3.42	10	09/19/2024 20:03	WG2364587
2,4-Dichlorophenol	U		0.0996	3.42	10	09/19/2024 20:03	WG2364587
2,4-Dimethylphenol	U		0.0893	3.42	10	09/19/2024 20:03	WG2364587
4,6-Dinitro-2-methylphenol	U		0.775	3.42	10	09/19/2024 20:03	WG2364587
2,4-Dinitrophenol	U		0.800	3.42	10	09/19/2024 20:03	WG2364587
2-Nitrophenol	U		0.122	3.42	10	09/19/2024 20:03	WG2364587
4-Nitrophenol	U		0.107	3.42	10	09/19/2024 20:03	WG2364587
Pentachlorophenol	U		0.0920	3.42	10	09/19/2024 20:03	WG2364587
Phenol	U	4	0.138	3.42	10	09/19/2024 20:03	WG2364587
2,4,6-Trichlorophenol	U		0.110	3.42	10	09/19/2024 20:03	WG2364587
(S) 2-Fluorophenol	*67.3*			*12.0-120*		*09/19/2024 20:03*	WG2364587
(S) Phenol-d5	*63.6*			*10.0-120*		*09/19/2024 20:03*	WG2364587
(S) Nitrobenzene-d5	*55.7*			*10.0-122*		*09/19/2024 20:03*	WG2364587
(S) 2-Fluorobiphenyl	*68.1*			*15.0-120*		*09/19/2024 20:03*	WG2364587
(S) 2,4,6-Tribromophenol	*72.6*			*10.0-127*		*09/19/2024 20:03*	WG2364587
(S) p-Terphenyl-d14	*79.5*			*10.0-120*		*09/19/2024 20:03*	WG2364587

Sample Narrative:

L1777207-01 WG2364587: Dilution due to matrix impact during extract concentration procedure

Method an M

M 4120113-1 09/14/24 09:50

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1776101-09 r g na Samp e S up cate UP

S L1776101-09 09/14/24 09:50 UP 4120113-3 09/14/24 09:50

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	99.5	99.5	1	0.0189		10

Laborator Contro Samp e LCS

LCS 4120113-2 09/14/24 09:50

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method an M

M 4120065-1 09/15/24 14:37

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laborator Contro Samp e LCS

LCS 4120065-2 09/15/24 14:40

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.481	96.2	80.0-120	

L1777025-59 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1777025-59 09/15/24 14:42 MS 4120065-4 09/15/24 14:52 MS 4120065-5 09/15/24 14:55

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg				%	%		%			%	%
Mercury	0.562	U	0.433	0.663	77.1	118	1	75.0-125		3	42.0	20

Method an M

M 4119921-1 09/14/24 19:18

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.518	2.00
Barium	0.197	_	0.0852	0.500
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Lead	U		0.208	0.500
Selenium	U		0.764	2.00
Silver	U		0.127	1.00

Laborator Contro Samp e LCS

LCS 4119921-2 09/14/24 19:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	92.5	92.5	80.0-120	
Barium	100	94.6	94.6	80.0-120	
Cadmium	100	93.2	93.2	80.0-120	
Chromium	100	94.0	94.0	80.0-120	
Lead	100	90.1	90.1	80.0-120	
Silver	20.0	18.5	92.6	80.0-120	

L1777231-02 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1777231-02 09/14/24 19:21 MS 4119921-5 09/14/24 19:27 MS 4119921-6 09/14/24 19:28

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	17.5	122	103	104	85.9	1	75.0-125			16.3	20
Barium	100	40.9	150	142	109	101	1	75.0-125			5.49	20
Chromium	100	8.13	107	94.0	98.6	85.8	1	75.0-125			12.7	20
Lead	100	7.40	108	94.6	101	87.2	1	75.0-125			13.4	20
Selenium	100	1.41	96.4	86.0	95.0	84.6	1	75.0-125			11.5	20

Method an M

M 4120102-2 09/13/24 13:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	1.44	_	0.830	2.50
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*77.0-120*

Laborator Contro Samp e LCS

LCS 4120102-1 09/13/24 12:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5.00	4.82	96.4	72.0-125	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

Method an M

M 4120051-3 09/13/24 18:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method an M

M 4120051-3 09/13/24 18:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*104*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*93.5*			*70.0-130*

Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4120051-1 09/13/24 17:06 LCS 4120051-2 09/13/24 17:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.822	0.751	132	120	10.0-160			9.03	31
Acrylonitrile	0.625	0.734	0.664	117	106	45.0-153			10.0	22
Benzene	0.125	0.130	0.125	104	100	70.0-123			3.92	20
Bromobenzene	0.125	0.125	0.123	100	98.4	73.0-121			1.61	20
Bromodichloromethane	0.125	0.124	0.125	99.2	100	73.0-121			0.803	20

Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4120051-1 09/13/24 17:06 LCS 4120051-2 09/13/24 17:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.125	0.131	0.128	105	102	64.0-132			2.32	20
Bromomethane	0.125	0.123	0.122	98.4	97.6	56.0-147			0.816	20
n-Butylbenzene	0.125	0.141	0.134	113	107	68.0-135			5.09	20
sec-Butylbenzene	0.125	0.135	0.134	108	107	74.0-130			0.743	20
tert-Butylbenzene	0.125	0.132	0.133	106	106	75.0-127			0.755	20
Carbon tetrachloride	0.125	0.151	0.150	121	120	66.0-128			0.664	20
Chlorobenzene	0.125	0.129	0.125	103	100	76.0-128			3.15	20
Chlorodibromomethane	0.125	0.129	0.125	103	100	74.0-127			3.15	20
Chloroethane	0.125	0.126	0.120	101	96.0	61.0-134			4.88	20
Chloroform	0.125	0.130	0.127	104	102	72.0-123			2.33	20
Chloromethane	0.125	0.101	0.0995	80.8	79.6	51.0-138			1.50	20
2-Chlorotoluene	0.125	0.135	0.131	108	105	75.0-124			3.01	20
4-Chlorotoluene	0.125	0.125	0.121	100	96.8	75.0-124			3.25	20
1,2-Dibromo-3-Chloropropane	0.125	0.134	0.127	107	102	59.0-130			5.36	20
1,2-Dibromoethane	0.125	0.126	0.122	101	97.6	74.0-128			3.23	20
Dibromomethane	0.125	0.129	0.131	103	105	75.0-122			1.54	20
1,2-Dichlorobenzene	0.125	0.136	0.128	109	102	76.0-124			6.06	20
1,3-Dichlorobenzene	0.125	0.132	0.127	106	102	76.0-125			3.86	20
1,4-Dichlorobenzene	0.125	0.130	0.128	104	102	77.0-121			1.55	20
Dichlorodifluoromethane	0.125	0.141	0.129	113	103	43.0-156			8.89	20
1,1-Dichloroethane	0.125	0.128	0.129	102	103	70.0-127			0.778	20
1,2-Dichloroethane	0.125	0.131	0.126	105	101	65.0-131			3.89	20
1,1-Dichloroethene	0.125	0.131	0.128	105	102	65.0-131			2.32	20
cis-1,2-Dichloroethene	0.125	0.136	0.131	109	105	73.0-125			3.75	20
trans-1,2-Dichloroethene	0.125	0.127	0.129	102	103	71.0-125			1.56	20
1,2-Dichloropropane	0.125	0.125	0.123	100	98.4	74.0-125			1.61	20
1,1-Dichloropropene	0.125	0.147	0.137	118	110	73.0-125			7.04	20
1,3-Dichloropropane	0.125	0.125	0.122	100	97.6	80.0-125			2.43	20
cis-1,3-Dichloropropene	0.125	0.129	0.127	103	102	76.0-127			1.56	20
trans-1,3-Dichloropropene	0.125	0.125	0.124	100	99.2	73.0-127			0.803	20
2,2-Dichloropropane	0.125	0.140	0.138	112	110	59.0-135			1.44	20
Di-isopropyl ether	0.125	0.121	0.120	96.8	96.0	60.0-136			0.830	20
Ethylbenzene	0.125	0.137	0.136	110	109	74.0-126			0.733	20
Hexachloro-1,3-butadiene	0.125	0.130	0.138	104	110	57.0-150			5.97	20
Isopropylbenzene	0.125	0.138	0.134	110	107	72.0-127			2.94	20
p-Isopropyltoluene	0.125	0.135	0.133	108	106	72.0-133			1.49	20
2-Butanone (MEK)	0.625	0.596	0.600	95.4	96.0	30.0-160			0.669	24
Methylene Chloride	0.125	0.124	0.118	99.2	94.4	68.0-123			4.96	20
4-Methyl-2-pentanone (MIBK)	0.625	0.655	0.642	105	103	56.0-143			2.00	20
Methyl tert-butyl ether	0.125	0.131	0.125	105	100	66.0-132			4.69	20

Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4120051-1 09/13/24 17:06 LCS 4120051-2 09/13/24 17:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.125	0.116	0.115	92.8	92.0	59.0-130			0.866	20
n-Propylbenzene	0.125	0.143	0.136	114	109	74.0-126			5.02	20
Styrene	0.125	0.129	0.126	103	101	72.0-127			2.35	20
1,1,1,2-Tetrachloroethane	0.125	0.141	0.137	113	110	74.0-129			2.88	20
1,1,2,2-Tetrachloroethane	0.125	0.123	0.121	98.4	96.8	68.0-128			1.64	20
1,1,2-Trichlorotrifluoroethane	0.125	0.141	0.133	113	106	61.0-139			5.84	20
Tetrachloroethene	0.125	0.138	0.131	110	105	70.0-136			5.20	20
Toluene	0.125	0.131	0.125	105	100	75.0-121			4.69	20
1,2,3-Trichlorobenzene	0.125	0.128	0.123	102	98.4	59.0-139			3.98	20
1,2,4-Trichlorobenzene	0.125	0.135	0.134	108	107	62.0-137			0.743	20
1,1,1-Trichloroethane	0.125	0.145	0.140	116	112	69.0-126			3.51	20
1,1,2-Trichloroethane	0.125	0.127	0.123	102	98.4	78.0-123			3.20	20
Trichloroethene	0.125	0.148	0.140	118	112	76.0-126			5.56	20
Trichlorofluoromethane	0.125	0.130	0.126	104	101	61.0-142			3.12	20
1,2,3-Trichloropropane	0.125	0.127	0.124	102	99.2	67.0-129			2.39	20
1,2,4-Trimethylbenzene	0.125	0.126	0.123	101	98.4	70.0-126			2.41	20
1,2,3-Trimethylbenzene	0.125	0.127	0.122	102	97.6	74.0-124			4.02	20
1,3,5-Trimethylbenzene	0.125	0.128	0.126	102	101	73.0-127			1.57	20
Vinyl chloride	0.125	0.124	0.124	99.2	99.2	63.0-134			0.000	20
Xylenes, Total	0.375	0.405	0.387	108	103	72.0-127			4.55	20
(S) Toluene-d8				*101*	*101*	*75.0-131*				
(S) 4-Bromofluorobenzene				*99.2*	*99.9*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*101*	*101*	*70.0-130*				

Method an M

M 4120250-1 09/15/24 23:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		0.733	4.00
(S) o-Terphenyl	*60.7*			*18.0-148*

Laborator Contro Samp e LCS

LCS 4120250-2 09/16/24 00:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C12-C22 Hydrocarbons	50.0	36.9	73.8	50.0-150	
(S) o-Terphenyl			*73.9*	*18.0-148*	

L1776452-07 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776452-07 09/16/24 00:19 MS 4120250-3 09/16/24 00:31 MS 4120250-4 09/16/24 00:44

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C12-C22 Hydrocarbons	59.6	U	33.1	28.2	55.5	47.1	1	50.0-150		6	16.0	20
(S) o-Terphenyl					*48.7*	*38.8*		*18.0-148*				

Method an M

M 4120395-1 09/14/24 17:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2,4-D	U		0.00702	0.0700
Dalapon	U		0.0113	0.0700
2,4-DB	U		0.0297	0.0700
Dicamba	U		0.0157	0.0700
Dichloroprop	U		0.0245	0.0700
Dinoseb	U		0.00697	0.0700
MCPA	U		0.443	6.50
MCPP	U		0.367	6.50
2,4,5-T	U		0.00852	0.0700
2,4,5-TP (Silvex)	U		0.0107	0.0700
(S) 2,4-Dichlorophenyl Acetic Acid	*76.0*			*22.0-132*

Laborator Contro Samp e LCS

LCS 4120395-2 09/14/24 17:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
2,4-D	0.0833	0.0649	77.9	40.0-120	
Dalapon	0.0833	0.0652	78.3	15.0-120	
2,4-DB	0.0833	0.0612	73.5	25.0-143	
Dicamba	0.0833	0.0611	73.3	43.0-120	
Dichloroprop	0.0833	0.0584	70.1	32.0-129	
Dinoseb	0.0833	0.0231	27.7	10.0-120	
MCPA	8.33	6.92	83.1	31.0-121	
MCPP	8.33	5.65	67.8	28.0-133	
2,4,5-T	0.0833	0.0623	74.8	41.0-120	
2,4,5-TP (Silvex)	0.0833	0.0590	70.8	42.0-120	
(S) 2,4-Dichlorophenyl Acetic Acid			*79.0*	*22.0-132*	

L1775589-03 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775589-03 09/14/24 23:38 MS 4120395-3 09/14/24 23:48 MS 4120395-4 09/14/24 23:58

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4-D	0.0834	U	0.102	0.109	123	132	1	10.0-160	P	P	6.70	24
Dalapon	0.0834	U	0.0624	0.0644	74.8	77.6	1	10.0-121			3.19	27
2,4-DB	0.0834	U	0.0781	0.0876	93.7	105	1	10.0-160	P	P	11.5	22

CONFIDENTIAL
No reliance without separate reliance agreement.

L1775589-03 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775589-03 09/14/24 23:38 MS 4120395-3 09/14/24 23:48 MS 4120395-4 09/14/24 23:58

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg				%	%		%			%	%
Dicamba	0.0834	U	0.0586	0.0581	70.4	70.0	1	10.0-154			0.867	21
Dichloroprop	0.0834	U	0.0691	0.0614	82.9	73.9	1	10.0-158			11.8	20
Dinoseb	0.0834	U	0.0415	0.0404	49.8	48.7	1	10.0-120			2.72	40
MCPA	8.34	U	7.78	43.2	93.3	521	1	10.0-160		E 3 5P	139	40
MCPP	8.34	U	7.36	8.30	88.3	99.9	1	10.0-160			11.9	40
2,4,5-T	0.0834	U	0.0550	0.0604	66.0	72.7	1	10.0-157			9.31	20
2,4,5-TP (Silvex)	0.0834	U	0.0581	0.0606	69.7	72.9	1	10.0-156			4.10	20
(S) 2,4-Dichlorophenyl Acetic Acid					*78.8*	*69.5*		*22.0-132*				

Method an M

M 4120335-1 09/16/24 11:18

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Azinphos-Methyl	U		0.0318	0.100
Bolstar (Sulprofos)	U		0.0149	0.100
Chlorpyrifos	U		0.0157	0.100
Coumaphos	U		0.0243	0.100
Demeton,-O and -S	U		0.00584	0.0700
Diazinon	U		0.0225	0.100
Dichlorvos	U		0.0300	0.100
Dimethoate	U		0.0334	0.100
Disulfoton	U		0.0254	0.100
EPN	U		0.0276	0.100
Ethoprop	U		0.0118	0.100
Ethyl Parathion	U		0.0164	0.100
Fensulfothion	U		0.0353	0.100
Fenthion	U		0.0133	0.100
Malathion	U		0.0179	0.100
Merphos	U		0.0232	0.100
Methyl parathion	U		0.0203	0.100
Mevinphos	U		0.0230	0.100
Naled	U		0.0480	0.100
Phorate	U		0.0210	0.100
Ronnel	U		0.0149	0.100
Stirophos	U		0.0178	0.100
Sulfotep	U		0.00986	0.100
TEPP	U		0.157	1.00
Tokuthion (Prothothiofos)	U		0.0150	0.100
Trichloronate	U		0.0201	0.100
(S) Triphenyl Phosphate	*106*			*36.0-121*

Laborator Contro Samp e LCS

LCS 4120335-2 09/16/24 11:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Azinphos-Methyl	0.333	0.381	114	58.0-125	
Bolstar (Sulprofos)	0.333	0.358	108	64.0-120	
Chlorpyrifos	0.333	0.368	111	62.0-120	
Coumaphos	0.333	0.382	115	60.0-120	
Demeton,-O and -S	0.167	0.189	113	59.0-120	
Diazinon	0.333	0.353	106	49.0-120	

Laborator Contro Samp e LCS

LCS 4120335-2 09/16/24 11:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dichlorvos	0.333	0.264	79.3	37.0-120	
Dimethoate	0.333	0.390	117	46.0-127	
Disulfoton	0.333	0.357	107	60.0-121	
EPN	0.333	0.386	116	60.0-121	
Ethoprop	0.333	0.369	111	59.0-120	
Ethyl Parathion	0.333	0.403	121	62.0-120	4
Fensulfothion	0.333	0.368	111	58.0-123	
Fenthion	0.333	0.350	105	61.0-121	
Malathion	0.333	0.389	117	59.0-120	
Merphos	0.333	0.310	93.1	59.0-120	
Methyl parathion	0.333	0.365	110	63.0-120	
Mevinphos	0.333	0.330	99.1	50.0-120	
Naled	0.333	0.229	68.8	10.0-125	
Phorate	0.333	0.360	108	60.0-120	
Ronnel	0.333	0.350	105	62.0-120	
Stirophos	0.333	0.361	108	62.0-120	
Sulfotep	0.333	0.444	133	62.0-122	4
TEPP	3.33	1.42	42.6	10.0-135	
Tokuthion (Prothothiofos)	0.333	0.346	104	63.0-120	
Trichloronate	0.333	0.355	107	62.0-120	
(S) Triphenyl Phosphate			*109*	*36.0-121*	

L1776835-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776835-01 09/16/24 14:39 MS 4120335-3 09/16/24 15:13 MS 4120335-4 09/16/24 15:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Azinphos-Methyl	0.350	U	0.384	0.364	110	104	1	10.0-160			5.50	22
Bolstar (Sulprofos)	0.350	U	0.371	0.347	106	99.1	1	10.0-151			6.94	20
Chlorpyrifos	0.350	U	0.379	0.360	108	103	1	12.0-149			5.28	20
Coumaphos	0.350	U	0.427	0.401	122	115	1	10.0-160			6.28	22
Demeton,-O and -S	0.175	U	0.184	0.177	105	101	1	10.0-160			4.20	23
Diazinon	0.350	U	0.375	0.353	107	101	1	11.0-157			5.95	20
Dichlorvos	0.350	U	0.452	0.409	129	117	1	10.0-160			9.81	24
Dimethoate	0.350	U	0.396	0.376	113	107	1	10.0-150			5.33	27
Disulfoton	0.350	U	0.347	0.329	99.1	94.1	1	12.0-155			5.13	20
EPN	0.350	U	0.403	0.380	115	109	1	10.0-159			5.81	20
Ethoprop	0.350	U	0.365	0.341	104	97.5	1	11.0-156			6.75	20
Ethyl Parathion	0.350	U	0.422	0.397	121	114	1	10.0-147			6.08	20

L1776835-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776835-01 09/16/24 14:39 MS 4120335-3 09/16/24 15:13 MS 4120335-4 09/16/24 15:46

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg				%	%		%			%	%
Fensulfothion	0.350	U	0.386	0.355	110	102	1	10.0-157			8.19	27
Fenthion	0.350	U	0.351	0.350	100	100	1	13.0-155			0.309	20
Malathion	0.350	U	0.414	0.393	118	112	1	13.0-137			5.10	21
Merphos	0.350	U	0.325	0.300	92.9	85.8	1	10.0-147			7.97	26
Methyl parathion	0.350	U	0.376	0.362	107	103	1	10.0-150			3.82	21
Mevinphos	0.350	U	0.329	0.300	94.1	85.8	1	10.0-158			9.29	24
Naled	0.350	U	U	U	8.79	4.55	1	10.0-137	6	3 6	63.6	40
Phorate	0.350	U	0.357	0.336	102	96.0	1	13.0-154			6.25	20
Ronnel	0.350	U	0.349	0.331	99.7	94.7	1	14.0-149			5.10	20
Stirophos	0.350	U	0.371	0.349	106	99.7	1	10.0-150			6.32	20
Sulfotep	0.350	U	0.441	0.416	126	119	1	10.0-160			5.82	20
TEPP	3.50	U	0.941	0.604	26.9	17.3	1	10.0-142		3	43.6	28
Tokuthion (Prothothiofos)	0.350	U	0.370	0.352	106	101	1	12.0-153			5.10	20
Trichloronate	0.350	U	0.384	0.331	110	94.7	1	12.0-152			14.8	20
(S) Triphenyl Phosphate					*109*	*103*		*36.0-121*				

Method an M

M 4120260-1 09/14/24 23:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00376	0.0200
Alpha BHC	U		0.00368	0.0200
Beta BHC	U		0.00379	0.0200
Delta BHC	U		0.00346	0.0200
Gamma BHC	U		0.00344	0.0200
4,4-DDD	U		0.00370	0.0200
4,4-DDE	U		0.00366	0.0200
4,4-DDT	U		0.00627	0.0200
Dieldrin	U		0.00344	0.0200
Endosulfan I	U		0.00363	0.0200
Endosulfan II	U		0.00335	0.0200
Endosulfan sulfate	U		0.00364	0.0200
Endrin	U		0.00350	0.0200
Endrin aldehyde	U		0.00339	0.0200
Endrin ketone	U		0.00711	0.0200
Heptachlor	U		0.00428	0.0200
Heptachlor epoxide	U		0.00339	0.0200
Hexachlorobenzene	U		0.00346	0.0200
Methoxychlor	U		0.00484	0.0200
Chlordane	U		0.103	0.300
Toxaphene	U		0.124	0.400
(S) Decachlorobiphenyl	*94.6*			*10.0-135*
(S) Tetrachloro-m-xylene	*94.9*			*10.0-139*

Laborator Contro Samp e LCS

LCS 4120260-2 09/14/24 23:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0675	101	34.0-136	
Alpha BHC	0.0666	0.0683	103	34.0-139	
Beta BHC	0.0666	0.0630	94.6	34.0-133	
Delta BHC	0.0666	0.0631	94.7	34.0-135	
Gamma BHC	0.0666	0.0671	101	34.0-136	
4,4-DDD	0.0666	0.0672	101	33.0-141	
4,4-DDE	0.0666	0.0666	100	34.0-134	
4,4-DDT	0.0666	0.0672	101	30.0-143	
Dieldrin	0.0666	0.0681	102	35.0-137	
Endosulfan I	0.0666	0.0649	97.4	34.0-134	

Laborator Contro Samp e LCS

LCS 4120260-2 09/14/24 23:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	0.0666	0.0664	99.7	35.0-132	
Endosulfan sulfate	0.0666	0.0659	98.9	35.0-132	
Endrin	0.0666	0.0668	100	34.0-137	
Endrin aldehyde	0.0666	0.0621	93.2	23.0-121	
Endrin ketone	0.0666	0.0667	100	35.0-144	
Heptachlor	0.0666	0.0753	113	36.0-141	
Heptachlor epoxide	0.0666	0.0688	103	36.0-134	
Hexachlorobenzene	0.0666	0.0671	101	33.0-129	
Methoxychlor	0.0666	0.0633	95.0	28.0-150	
(S) Decachlorobiphenyl			*97.7*	*10.0-135*	
(S) Tetrachloro-m-xylene			*94.1*	*10.0-139*	

L1775074-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775074-01 09/15/24 01:16 MS 4120260-3 09/15/24 01:26 MS 4120260-4 09/15/24 01:36

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0666	U	0.0300	0.0306	45.0	45.9	1	20.0-135			1.98	37
Alpha BHC	0.0666	U	0.0308	0.0313	46.2	47.0	1	27.0-140			1.61	35
Beta BHC	0.0666	U	0.0291	0.0293	43.7	44.0	1	23.0-141			0.685	37
Delta BHC	0.0666	U	0.0281	0.0272	42.2	40.8	1	21.0-138			3.25	35
Gamma BHC	0.0666	U	0.0305	0.0312	45.8	46.8	1	27.0-137			2.27	36
4,4-DDD	0.0666	U	0.0304	0.0314	45.6	47.1	1	15.0-152			3.24	39
4,4-DDE	0.0666	U	0.0323	0.0351	48.5	52.7	1	10.0-152			8.31	40
4,4-DDT	0.0666	U	0.0281	0.0299	42.2	44.9	1	10.0-151			6.21	40
Dieldrin	0.0666	U	0.0301	0.0304	45.2	45.6	1	17.0-145			0.992	37
Endosulfan I	0.0666	U	0.0278	0.0286	41.7	42.9	1	20.0-137			2.84	36
Endosulfan II	0.0666	U	0.0265	0.0241	39.8	36.2	1	15.0-141			9.49	37
Endosulfan sulfate	0.0666	U	0.0248	0.0206	37.2	30.9	1	15.0-143			18.5	38
Endrin	0.0666	U	0.0294	0.0301	44.1	45.2	1	19.0-143			2.35	37
Endrin aldehyde	0.0666	U	0.0256	0.0236	38.4	35.4	1	10.0-139			8.13	40
Endrin ketone	0.0666	U	0.0271	0.0245	40.7	36.8	1	17.0-149			10.1	38
Heptachlor	0.0666	U	0.0341	0.0345	51.2	51.8	1	22.0-138			1.17	37
Heptachlor epoxide	0.0666	U	0.0307	0.0313	46.1	47.0	1	22.0-138			1.94	36
Hexachlorobenzene	0.0666	U	0.0318	0.0325	47.7	48.8	1	25.0-126			2.18	35
Methoxychlor	0.0666	U	0.0256	0.0232	38.4	34.8	1	10.0-159			9.84	40
(S) Decachlorobiphenyl					*31.8*	*48.5*		*10.0-135*				
(S) Tetrachloro-m-xylene					*34.1*	*50.2*		*10.0-139*				

Method an M

M 4122263-2 09/19/24 18:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00539	0.0333
Acenaphthylene	U		0.00469	0.0333
Anthracene	U		0.00593	0.0333
Benzidine	U		0.0626	1.67
Benzo(a)anthracene	U		0.00587	0.0333
Benzo(b)fluoranthene	U		0.00621	0.0333
Benzo(k)fluoranthene	U		0.00592	0.0333
Benzo(g,h,i)perylene	U		0.00609	0.0333
Benzo(a)pyrene	U		0.00619	0.0333
Bis(2-chlorethoxy)methane	U		0.0100	0.333
Bis(2-chloroethyl)ether	U		0.0110	0.333
2,2-Oxybis(1-Chloropropane)	U		0.0144	0.333
4-Bromophenyl-phenylether	U		0.0117	0.333
2-Chloronaphthalene	U		0.00585	0.0333
4-Chlorophenyl-phenylether	U		0.0116	0.333
Chrysene	U		0.00662	0.0333
Dibenz(a,h)anthracene	U		0.00923	0.0333
3,3-Dichlorobenzidine	U		0.0123	0.333
2,4-Dinitrotoluene	U		0.00955	0.333
2,6-Dinitrotoluene	U		0.0109	0.333
Fluoranthene	U		0.00601	0.0333
Fluorene	U		0.00542	0.0333
Hexachlorobenzene	U		0.0118	0.333
Hexachloro-1,3-butadiene	U		0.0112	0.333
Hexachlorocyclopentadiene	U		0.0175	0.333
Hexachloroethane	U		0.0131	0.333
Indeno(1,2,3-cd)pyrene	U		0.00941	0.0333
Isophorone	U		0.0102	0.333
Naphthalene	U		0.00836	0.0333
Nitrobenzene	U		0.0116	0.333
n-Nitrosodimethylamine	U		0.0494	0.333
n-Nitrosodiphenylamine	U		0.0252	0.333
n-Nitrosodi-n-propylamine	U		0.0111	0.333
Phenanthrene	U		0.00661	0.0333
Benzylbutyl phthalate	U		0.0104	0.333
Bis(2-ethylhexyl)phthalate	U		0.0422	0.333
Di-n-butyl phthalate	U		0.0114	0.333
Diethyl phthalate	U		0.0110	0.333
Dimethyl phthalate	U		0.0706	0.333
Di-n-octyl phthalate	U		0.0225	0.333

Method an M

M 4122263-2 09/19/24 18:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.00648	0.0333
1,2,4-Trichlorobenzene	U		0.0104	0.333
4-Chloro-3-methylphenol	U		0.0108	0.333
2-Chlorophenol	U		0.0110	0.333
2,4-Dichlorophenol	U		0.00970	0.333
2,4-Dimethylphenol	U		0.00870	0.333
4,6-Dinitro-2-methylphenol	U		0.0755	0.333
2,4-Dinitrophenol	U		0.0779	0.333
2-Nitrophenol	U		0.0119	0.333
4-Nitrophenol	U		0.0104	0.333
Pentachlorophenol	U		0.00896	0.333
Phenol	U		0.0134	0.333
2,4,6-Trichlorophenol	U		0.0107	0.333
(S) 2-Fluorophenol	*73.7*			*12.0-120*
(S) Phenol-d5	*69.4*			*10.0-120*
(S) Nitrobenzene-d5	*58.6*			*10.0-122*
(S) 2-Fluorobiphenyl	*74.2*			*15.0-120*
(S) 2,4,6-Tribromophenol	*75.8*			*10.0-127*
(S) p-Terphenyl-d14	*88.6*			*10.0-120*

Laborator Contro Samp e LCS

LCS 4122263-1 09/19/24 18:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.399	59.9	38.0-120	
Acenaphthylene	0.666	0.393	59.0	40.0-120	
Anthracene	0.666	0.474	71.2	42.0-120	
Benzidine	1.33	0.314	23.6	10.0-120	-
Benzo(a)anthracene	0.666	0.512	76.9	44.0-120	
Benzo(b)fluoranthene	0.666	0.516	77.5	43.0-120	
Benzo(k)fluoranthene	0.666	0.512	76.9	44.0-120	
Benzo(g,h,i)perylene	0.666	0.478	71.8	43.0-120	
Benzo(a)pyrene	0.666	0.531	79.7	45.0-120	
Bis(2-chlorethoxy)methane	0.666	0.317	47.6	20.0-120	-
Bis(2-chloroethyl)ether	0.666	0.380	57.1	16.0-120	
2,2-Oxybis(1-Chloropropane)	0.666	0.337	50.6	23.0-120	
4-Bromophenyl-phenylether	0.666	0.481	72.2	40.0-120	
2-Chloronaphthalene	0.666	0.379	56.9	35.0-120	

Laborator Contro Samp e LCS

LCS 4122263-1 09/19/24 18:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Chlorophenyl-phenylether	0.666	0.436	65.5	40.0-120	
Chrysene	0.666	0.521	78.2	43.0-120	
Dibenz(a,h)anthracene	0.666	0.521	78.2	44.0-120	
3,3-Dichlorobenzidine	1.33	1.05	78.9	28.0-120	
2,4-Dinitrotoluene	0.666	0.522	78.4	45.0-120	
2,6-Dinitrotoluene	0.666	0.442	66.4	42.0-120	
Fluoranthene	0.666	0.517	77.6	44.0-120	
Fluorene	0.666	0.434	65.2	41.0-120	
Hexachlorobenzene	0.666	0.466	70.0	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.323	48.5	15.0-120	
Hexachlorocyclopentadiene	0.666	0.00173	0.260	15.0-120	4
Hexachloroethane	0.666	0.315	47.3	17.0-120	
Indeno(1,2,3-cd)pyrene	0.666	0.490	73.6	45.0-120	
Isophorone	0.666	0.308	46.2	23.0-120	
Naphthalene	0.666	0.317	47.6	18.0-120	
Nitrobenzene	0.666	0.305	45.8	17.0-120	
n-Nitrosodimethylamine	0.666	0.354	53.2	10.0-125	
n-Nitrosodiphenylamine	0.666	0.455	68.3	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.361	54.2	26.0-120	
Phenanthrene	0.666	0.476	71.5	42.0-120	
Benzylbutyl phthalate	0.666	0.495	74.3	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.495	74.3	41.0-120	
Di-n-butyl phthalate	0.666	0.486	73.0	43.0-120	
Diethyl phthalate	0.666	0.482	72.4	43.0-120	
Dimethyl phthalate	0.666	0.419	62.9	43.0-120	
Di-n-octyl phthalate	0.666	0.494	74.2	40.0-120	
Pyrene	0.666	0.505	75.8	41.0-120	
1,2,4-Trichlorobenzene	0.666	0.321	48.2	17.0-120	
4-Chloro-3-methylphenol	0.666	0.281	42.2	28.0-120	
2-Chlorophenol	0.666	0.390	58.6	28.0-120	
2,4-Dichlorophenol	0.666	0.343	51.5	25.0-120	
2,4-Dimethylphenol	0.666	0.292	43.8	15.0-120	
4,6-Dinitro-2-methylphenol	0.666	0.399	59.9	16.0-120	
2,4-Dinitrophenol	0.666	0.263	39.5	10.0-120	
2-Nitrophenol	0.666	0.342	51.4	20.0-120	
4-Nitrophenol	0.666	0.484	72.7	27.0-120	
Pentachlorophenol	0.666	0.422	63.4	29.0-120	
Phenol	0.666	0.137	20.6	28.0-120	4
2,4,6-Trichlorophenol	0.666	0.362	54.4	37.0-120	
(S) 2-Fluorophenol			*59.9*	*12.0-120*	