Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyclohexane	U		0.000277	0.00103	1	05/11/2021 16:05	WG1668173
1,2-Dibromo-3-Chloropropane	U		0.00196	0.00517	1	05/11/2021 16:05	WG1668173
1,2-Dibromoethane	U		0.000258	0.00103	1	05/11/2021 16:05	WG1668173
Dichlorodifluoromethane	U		0.000296	0.00517	1	05/11/2021 16:05	WG1668173
1,1-Dichloroethane	U		0.000277	0.00103	1	05/11/2021 16:05	WG1668173
1,2-Dichloroethane	U		0.000465	0.00103	1	05/11/2021 16:05	WG1668173
1,2-Dichlorobenzene	U		0.000439	0.00103	1	05/11/2021 16:05	WG1668173
1,3-Dichlorobenzene	U		0.000620	0.00103	1	05/11/2021 16:05	WG1668173
1,4-Dichlorobenzene	U		0.000857	0.00103	1	05/11/2021 16:05	WG1668173
1,1-Dichloroethene	U		0.000367	0.00103	1	05/11/2021 16:05	WG1668173
cis-1,2-Dichloroethene	U		0.000491	0.00103	1	05/11/2021 16:05	WG1668173
trans-1,2-Dichloroethene	U		0.000517	0.00103	1	05/11/2021 16:05	WG1668173
1,2-Dichloropropane	U		0.000169	0.00103	1	05/11/2021 16:05	WG1668173
cis-1,3-Dichloropropene	U		0.000439	0.00103	1	05/11/2021 16:05	WG1668173
trans-1,3-Dichloropropene	U		0.000697	0.00103	1	05/11/2021 16:05	WG1668173
Ethylbenzene	U		0.000310	0.00103	1	05/11/2021 16:05	WG1668173
2-Hexanone	U		0.00185	0.0103	1	05/11/2021 16:05	WG1668173
Isopropylbenzene	U		0.000439	0.00103	1	05/11/2021 16:05	WG1668173
2-Butanone (MEK)	U		0.00483	0.0103	1	05/11/2021 16:05	WG1668173
Methyl Acetate	U		0.00310	0.0207	1	05/11/2021 16:05	WG1668173
Methyl Cyclohexane	U		0.000801	0.00103	1	05/11/2021 16:05	WG1668173
Methylene Chloride	U		0.00103	0.00517	1	05/11/2021 16:05	WG1668173
4-Methyl-2-pentanone (MIBK)	U		0.000981	0.0103	1	05/11/2021 16:05	WG1668173
Methyl tert-butyl ether	U		0.000362	0.00103	1	05/11/2021 16:05	WG1668173
Styrene	U		0.000230	0.00103	1	05/11/2021 16:05	WG1668173
1,1,2,2-Tetrachloroethane	U		0.000239	0.00103	1	05/11/2021 16:05	WG1668173
Tetrachloroethene	U		0.000336	0.00103	1	05/11/2021 16:05	WG1668173
Toluene	U		0.00127	0.00517	1	05/11/2021 16:05	WG1668173
1,2,3-Trichlorobenzene	U		0.000316	0.00103	1	05/11/2021 16:05	WG1668173
1,2,4-Trichlorobenzene	U		0.000401	0.00103	1	05/11/2021 16:05	WG1668173
1,1,1-Trichloroethane	U		0.000382	0.00103	1	05/11/2021 16:05	WG1668173
1,1,2-Trichloroethane	U		0.000439	0.00103	1	05/11/2021 16:05	WG1668173
Trichloroethene	U		0.000207	0.00103	1	05/11/2021 16:05	WG1668173
Trichlorofluoromethane	U		0.000368	0.00517	1	05/11/2021 16:05	WG1668173
1,1,2-Trichlorotrifluoroethane	U		0.000440	0.00103	1	05/11/2021 16:05	WG1668173
Vinyl chloride	U		0.000233	0.00103	1	05/11/2021 16:05	WG1668173
Xylenes, Total	U		0.000517	0.00310	1	05/11/2021 16:05	WG1668173
(S) Toluene-d8	*113*			*75.0-131*		*05/11/2021 16:05*	WG1668173
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*05/11/2021 16:05*	WG1668173
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*05/11/2021 16:05*	WG1668173

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	0.000		0.000	0.000	1	05/11/2021 16:05	WG1668173		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00388	0.0207	1	05/06/2021 14:44	WG1663467
Alpha BHC	U		0.00380	0.0207	1	05/06/2021 14:44	WG1663467
Beta BHC	U		0.00392	0.0207	1	05/06/2021 14:44	WG1663467
Delta BHC	U		0.00357	0.0207	1	05/06/2021 14:44	WG1663467
Gamma BHC	U		0.00355	0.0207	1	05/06/2021 14:44	WG1663467
Chlordane	U		0.106	0.310	1	05/06/2021 14:44	WG1663467
4,4-DDD	U		0.00382	0.0207	1	05/06/2021 14:44	WG1663467
4,4-DDE	U		0.00378	0.0207	1	05/06/2021 14:44	WG1663467
4,4-DDT	U		0.00648	0.0207	1	05/06/2021 14:44	WG1663467
Dieldrin	U		0.00355	0.0207	1	05/06/2021 14:44	WG1663467
Endosulfan I	U		0.00375	0.0207	1	05/06/2021 14:44	WG1663467
Endosulfan II	U		0.00346	0.0207	1	05/06/2021 14:44	WG1663467
Endosulfan sulfate	U		0.00376	0.0207	1	05/06/2021 14:44	WG1663467
Endrin	U		0.00362	0.0207	1	05/06/2021 14:44	WG1663467
Endrin aldehyde	U		0.00350	0.0207	1	05/06/2021 14:44	WG1663467
Endrin ketone	U		0.00735	0.0207	1	05/06/2021 14:44	WG1663467
Hexachlorobenzene	U		0.00357	0.0207	1	05/06/2021 14:44	WG1663467
Heptachlor	U		0.00442	0.0207	1	05/06/2021 14:44	WG1663467
Heptachlor epoxide	U		0.00350	0.0207	1	05/06/2021 14:44	WG1663467
Methoxychlor	U		0.00500	0.0207	1	05/06/2021 14:44	WG1663467
Toxaphene	U		0.128	0.413	1	05/06/2021 14:44	WG1663467
(S) Decachlorobiphenyl	*60.6*			*30.0-150*		*05/06/2021 14:44*	WG1663467
(S) Tetrachloro-m-xylene	*62.6*			*30.0-150*		*05/06/2021 14:44*	WG1663467

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0122	0.0351	1	05/05/2021 17:34	WG1663467
PCB 1221	U		0.0122	0.0351	1	05/05/2021 17:34	WG1663467
PCB 1232	U		0.0122	0.0351	1	05/05/2021 17:34	WG1663467
PCB 1242	U		0.0122	0.0351	1	05/05/2021 17:34	WG1663467
PCB 1248	U		0.00762	0.0176	1	05/05/2021 17:34	WG1663467
PCB 1254	U		0.00762	0.0176	1	05/05/2021 17:34	WG1663467
PCB 1260	U		0.00762	0.0176	1	05/05/2021 17:34	WG1663467
Total PCBs	U		0.00762	0.0176	1	05/05/2021 17:34	WG1663467
(S) Decachlorobiphenyl	*65.5*			*30.0-150*		*05/05/2021 17:34*	WG1663467
(S) Tetrachloro-m-xylene	*61.3*			*30.0-150*		*05/05/2021 17:34*	WG1663467

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U	J4	0.00557	0.0344	1	05/10/2021 16:19	WG1666923
Acenaphthylene	U	J4	0.00485	0.0344	1	05/10/2021 16:19	WG1666923
Acetophenone	U	J4	0.0107	0.344	1	05/10/2021 16:19	WG1666923
Anthracene	U	J4	0.00613	0.0344	1	05/10/2021 16:19	WG1666923
Atrazine	U	J4	0.0119	0.344	1	05/10/2021 16:19	WG1666923
Benzaldehyde	U		0.0183	0.344	1	05/10/2021 16:19	WG1666923
Benzo(a)anthracene	U	J4	0.00606	0.0344	1	05/10/2021 16:19	WG1666923
Benzo(b)fluoranthene	U	J4	0.00642	0.0344	1	05/10/2021 16:19	WG1666923
Benzo(k)fluoranthene	U	J4	0.00612	0.0344	1	05/10/2021 16:19	WG1666923
Benzo(g,h,i)perylene	U	J4	0.00629	0.0344	1	05/10/2021 16:19	WG1666923
Benzo(a)pyrene	U	J4	0.00639	0.0344	1	05/10/2021 16:19	WG1666923
Biphenyl	U	J4	0.0110	0.344	1	05/10/2021 16:19	WG1666923
Bis(2-chlorethoxy)methane	U	J4	0.0103	0.344	1	05/10/2021 16:19	WG1666923
Bis(2-chloroethyl)ether	U	J4	0.0114	0.344	1	05/10/2021 16:19	WG1666923

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,2-Oxybis(1-Chloropropane)	U	J4	0.0149	0.344	1	05/10/2021 16:19	WG1666923
4-Bromophenyl-phenylether	U	J4	0.0121	0.344	1	05/10/2021 16:19	WG1666923
Caprolactam	U		0.0170	0.344	1	05/10/2021 16:19	WG1666923
Carbazole	U	J4	0.0106	0.344	1	05/10/2021 16:19	WG1666923
4-Chloroaniline	U	J4	0.0124	0.344	1	05/10/2021 16:19	WG1666923
2-Chloronaphthalene	U	J4	0.00604	0.0344	1	05/10/2021 16:19	WG1666923
4-Chlorophenyl-phenylether	U	J4	0.0120	0.344	1	05/10/2021 16:19	WG1666923
Chrysene	U	J4	0.00684	0.0344	1	05/10/2021 16:19	WG1666923
Dibenz(a,h)anthracene	U	J4	0.00954	0.0344	1	05/10/2021 16:19	WG1666923
Dibenzofuran	U	J4	0.0113	0.344	1	05/10/2021 16:19	WG1666923
3,3-Dichlorobenzidine	U	J4	0.0127	0.344	1	05/10/2021 16:19	WG1666923
2,4-Dinitrotoluene	U	J4	0.00987	0.344	1	05/10/2021 16:19	WG1666923
2,6-Dinitrotoluene	U	J4	0.0113	0.344	1	05/10/2021 16:19	WG1666923
Fluoranthene	U	J4	0.00621	0.0344	1	05/10/2021 16:19	WG1666923
Fluorene	U	J4	0.00560	0.0344	1	05/10/2021 16:19	WG1666923
Hexachlorobenzene	U	J4	0.0122	0.344	1	05/10/2021 16:19	WG1666923
Hexachloro-1,3-butadiene	U	J4	0.0116	0.344	1	05/10/2021 16:19	WG1666923
Hexachlorocyclopentadiene	U		0.0181	0.344	1	05/10/2021 16:19	WG1666923
Hexachloroethane	U		0.0135	0.344	1	05/10/2021 16:19	WG1666923
Indeno(1,2,3-cd)pyrene	U	J4	0.00972	0.0344	1	05/10/2021 16:19	WG1666923
Isophorone	U	J4	0.0105	0.344	1	05/10/2021 16:19	WG1666923
2-Methylnaphthalene	U	J4	0.00446	0.0344	1	05/10/2021 16:19	WG1666923
Naphthalene	U	J4	0.00864	0.0344	1	05/10/2021 16:19	WG1666923
2-Nitroaniline	U	J4	0.0111	0.344	1	05/10/2021 16:19	WG1666923
3-Nitroaniline	U	J4	0.0110	0.344	1	05/10/2021 16:19	WG1666923
4-Nitroaniline	U		0.0100	0.344	1	05/10/2021 16:19	WG1666923
Nitrobenzene	U	J4	0.0120	0.344	1	05/10/2021 16:19	WG1666923
n-Nitrosodiphenylamine	U		0.0260	0.344	1	05/10/2021 16:19	WG1666923
n-Nitrosodi-n-propylamine	U	J4	0.0115	0.344	1	05/10/2021 16:19	WG1666923
Phenanthrene	U	J4	0.00683	0.0344	1	05/10/2021 16:19	WG1666923
Benzylbutyl phthalate	U	J4	0.0107	0.344	1	05/10/2021 16:19	WG1666923
Bis(2-ethylhexyl)phthalate	U	J4	0.0436	0.344	1	05/10/2021 16:19	WG1666923
Di-n-butyl phthalate	U	J4	0.0118	0.344	1	05/10/2021 16:19	WG1666923
Diethyl phthalate	U	J4	0.0114	0.344	1	05/10/2021 16:19	WG1666923
Dimethyl phthalate	U	J4	0.0729	0.344	1	05/10/2021 16:19	WG1666923
Di-n-octyl phthalate	U	J4	0.0232	0.344	1	05/10/2021 16:19	WG1666923
Pyrene	U	J4	0.00669	0.0344	1	05/10/2021 16:19	WG1666923
1,2,4,5-Tetrachlorobenzene	U	J4	0.0164	0.344	1	05/10/2021 16:19	WG1666923
4-Chloro-3-methylphenol	U	J4	0.0112	0.344	1	05/10/2021 16:19	WG1666923
2-Chlorophenol	U	J4	0.0114	0.344	1	05/10/2021 16:19	WG1666923
2-Methylphenol	U	J4	0.0103	0.344	1	05/10/2021 16:19	WG1666923
3&4-Methyl Phenol	U		0.0107	0.344	1	05/10/2021 16:19	WG1666923
2,4-Dichlorophenol	U	J4	0.0100	0.344	1	05/10/2021 16:19	WG1666923
2,4-Dimethylphenol	U	J4	0.00899	0.344	1	05/10/2021 16:19	WG1666923
4,6-Dinitro-2-methylphenol	U	J4	0.0780	0.344	1	05/10/2021 16:19	WG1666923
2,4-Dinitrophenol	U		0.0805	0.344	1	05/10/2021 16:19	WG1666923
2-Nitrophenol	U	J4	0.0123	0.344	1	05/10/2021 16:19	WG1666923
4-Nitrophenol	U		0.0107	0.344	1	05/10/2021 16:19	WG1666923
Pentachlorophenol	U		0.00926	0.344	1	05/10/2021 16:19	WG1666923
Phenol	U		0.0138	0.344	1	05/10/2021 16:19	WG1666923
2,4,5-Trichlorophenol	U	J4	0.0117	0.344	1	05/10/2021 16:19	WG1666923
2,4,6-Trichlorophenol	U	J4	0.0111	0.344	1	05/10/2021 16:19	WG1666923
(S) 2-Fluorophenol	*60.5*			*30.0-130*		*05/10/2021 16:19*	WG1666923
(S) Phenol-d5	*56.0*			*30.0-130*		*05/10/2021 16:19*	WG1666923
(S) Nitrobenzene-d5	*48.6*			*30.0-130*		*05/10/2021 16:19*	WG1666923
(S) 2-Fluorobiphenyl	*56.3*			*30.0-130*		*05/10/2021 16:19*	WG1666923

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2,4,6-Tribromophenol	*64.6*			*30.0-130*		*05/10/2021 16:19*	WG1666923
(S) p-Terphenyl-d14	*65.2*			*30.0-130*		*05/10/2021 16:19*	WG1666923

Semi Volatile Organic Compounds (GC/MS) by Method 8270C/8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	0.0898	J N	0.000	0.000	1	05/10/2021 16:19	WG1666923		
Unknown-01	0.0898	J N	0.000	0.000	1	05/10/2021 16:19	WG1666923	000123-42-2	2.68

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.0		1	05/08/2021 09:27	WG1666770

Wet Chemistry by Method 9012B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cyanide	U		0.0763	0.260	1	05/11/2021 19:26	WG1668185

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0187	0.0417	1	05/06/2021 16:47	WG1662823

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aluminum	3370	J5 J6 O1	6.33	10.4	1	05/07/2021 00:44	WG1662840
Antimony	U		0.566	2.08	1	05/07/2021 00:44	WG1662840
Arsenic	2.56		0.539	2.08	1	05/07/2021 00:44	WG1662840
Barium	8.09		0.0887	0.521	1	05/07/2021 00:44	WG1662840
Beryllium	0.379		0.0328	0.208	1	05/07/2021 00:44	WG1662840
Cadmium	0.0498	J	0.0490	0.521	1	05/07/2021 00:44	WG1662840
Calcium	93.1	J	11.0	104	1	05/07/2021 00:44	WG1662840
Chromium	9.04		0.138	1.04	1	05/07/2021 00:44	WG1662840
Cobalt	1.85		0.0845	1.04	1	05/07/2021 00:44	WG1662840
Copper	5.38		0.417	2.08	1	05/07/2021 00:44	WG1662840
Iron	9230	O1 V	2.33	10.4	1	05/07/2021 00:44	WG1662840
Lead	2.31		0.217	0.521	1	05/07/2021 00:44	WG1662840
Magnesium	912		7.69	104	1	05/07/2021 00:44	WG1662840
Manganese	30.4		0.138	1.04	1	05/07/2021 00:44	WG1662840
Nickel	4.64		0.137	2.08	1	05/07/2021 00:44	WG1662840
Potassium	908	J6	21.8	104	1	05/07/2021 00:44	WG1662840
Selenium	U		0.796	2.08	1	05/07/2021 00:44	WG1662840
Silver	U		0.132	1.04	1	05/07/2021 00:44	WG1662840
Sodium	110	B	42.9	104	1	05/07/2021 10:06	WG1662840
Thallium	U		0.410	2.08	1	05/07/2021 00:44	WG1662840
Vanadium	11.6		0.527	2.08	1	05/07/2021 00:44	WG1662840
Zinc	16.9		0.866	5.21	1	05/07/2021 00:44	WG1662840

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0216	0.0521	1	05/11/2021 16:27	WG1668173
Benzene	U		0.000391	0.00104	1	05/11/2021 16:27	WG1668173
Bromochloromethane	U		0.000349	0.00104	1	05/11/2021 16:27	WG1668173
Bromodichloromethane	U		0.000755	0.00104	1	05/11/2021 16:27	WG1668173
Bromoform	U		0.000442	0.00104	1	05/11/2021 16:27	WG1668173
Bromomethane	U		0.00122	0.00521	1	05/11/2021 16:27	WG1668173
Carbon disulfide	U		0.000729	0.00104	1	05/11/2021 16:27	WG1668173
Carbon tetrachloride	U		0.000258	0.00104	1	05/11/2021 16:27	WG1668173
Chlorobenzene	U		0.000200	0.00104	1	05/11/2021 16:27	WG1668173
Chlorodibromomethane	U		0.000233	0.00104	1	05/11/2021 16:27	WG1668173
Chloroethane	U		0.00104	0.00521	1	05/11/2021 16:27	WG1668173
Chloroform	U		0.00107	0.00521	1	05/11/2021 16:27	WG1668173
Chloromethane	U		0.000677	0.00260	1	05/11/2021 16:27	WG1668173

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyclohexane	U		0.000279	0.00104	1	05/11/2021 16:27	WG1668173
1,2-Dibromo-3-Chloropropane	U		0.00198	0.00521	1	05/11/2021 16:27	WG1668173
1,2-Dibromoethane	U		0.000260	0.00104	1	05/11/2021 16:27	WG1668173
Dichlorodifluoromethane	U		0.000299	0.00521	1	05/11/2021 16:27	WG1668173
1,1-Dichloroethane	U		0.000279	0.00104	1	05/11/2021 16:27	WG1668173
1,2-Dichloroethane	U		0.000469	0.00104	1	05/11/2021 16:27	WG1668173
1,2-Dichlorobenzene	U		0.000443	0.00104	1	05/11/2021 16:27	WG1668173
1,3-Dichlorobenzene	U		0.000625	0.00104	1	05/11/2021 16:27	WG1668173
1,4-Dichlorobenzene	U		0.000864	0.00104	1	05/11/2021 16:27	WG1668173
1,1-Dichloroethene	U		0.000370	0.00104	1	05/11/2021 16:27	WG1668173
cis-1,2-Dichloroethene	U		0.000495	0.00104	1	05/11/2021 16:27	WG1668173
trans-1,2-Dichloroethene	U		0.000521	0.00104	1	05/11/2021 16:27	WG1668173
1,2-Dichloropropane	U		0.000171	0.00104	1	05/11/2021 16:27	WG1668173
cis-1,3-Dichloropropene	U		0.000443	0.00104	1	05/11/2021 16:27	WG1668173
trans-1,3-Dichloropropene	U		0.000703	0.00104	1	05/11/2021 16:27	WG1668173
Ethylbenzene	U		0.000312	0.00104	1	05/11/2021 16:27	WG1668173
2-Hexanone	U		0.00186	0.0104	1	05/11/2021 16:27	WG1668173
Isopropylbenzene	U		0.000443	0.00104	1	05/11/2021 16:27	WG1668173
2-Butanone (MEK)	U		0.00487	0.0104	1	05/11/2021 16:27	WG1668173
Methyl Acetate	U		0.00312	0.0208	1	05/11/2021 16:27	WG1668173
Methyl Cyclohexane	U		0.000807	0.00104	1	05/11/2021 16:27	WG1668173
Methylene Chloride	U		0.00104	0.00521	1	05/11/2021 16:27	WG1668173
4-Methyl-2-pentanone (MIBK)	U		0.000989	0.0104	1	05/11/2021 16:27	WG1668173
Methyl tert-butyl ether	U		0.000364	0.00104	1	05/11/2021 16:27	WG1668173
Styrene	U		0.000232	0.00104	1	05/11/2021 16:27	WG1668173
1,1,2,2-Tetrachloroethane	U		0.000241	0.00104	1	05/11/2021 16:27	WG1668173
Tetrachloroethene	U		0.000338	0.00104	1	05/11/2021 16:27	WG1668173
Toluene	U		0.00128	0.00521	1	05/11/2021 16:27	WG1668173
1,2,3-Trichlorobenzene	U		0.000319	0.00104	1	05/11/2021 16:27	WG1668173
1,2,4-Trichlorobenzene	U		0.000404	0.00104	1	05/11/2021 16:27	WG1668173
1,1,1-Trichloroethane	U		0.000385	0.00104	1	05/11/2021 16:27	WG1668173
1,1,2-Trichloroethane	U		0.000443	0.00104	1	05/11/2021 16:27	WG1668173
Trichloroethene	U		0.000208	0.00104	1	05/11/2021 16:27	WG1668173
Trichlorofluoromethane	U		0.000371	0.00521	1	05/11/2021 16:27	WG1668173
1,1,2-Trichlorotrifluoroethane	U		0.000444	0.00104	1	05/11/2021 16:27	WG1668173
Vinyl chloride	U		0.000235	0.00104	1	05/11/2021 16:27	WG1668173
Xylenes, Total	U		0.000521	0.00312	1	05/11/2021 16:27	WG1668173
(S) Toluene-d8	*113*			*75.0-131*		*05/11/2021 16:27*	WG1668173
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*05/11/2021 16:27*	WG1668173
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*05/11/2021 16:27*	WG1668173

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	0.000		0.000	0.000	1	05/11/2021 16:27	WG1668173		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00392	0.0208	1	05/06/2021 14:58	WG1663467
Alpha BHC	U		0.00383	0.0208	1	05/06/2021 14:58	WG1663467
Beta BHC	U		0.00395	0.0208	1	05/06/2021 14:58	WG1663467
Delta BHC	U		0.00360	0.0208	1	05/06/2021 14:58	WG1663467
Gamma BHC	U		0.00358	0.0208	1	05/06/2021 14:58	WG1663467
Chlordane	U		0.107	0.312	1	05/06/2021 14:58	WG1663467
4,4-DDD	U		0.00385	0.0208	1	05/06/2021 14:58	WG1663467
4,4-DDE	U		0.00381	0.0208	1	05/06/2021 14:58	WG1663467
4,4-DDT	U		0.00653	0.0208	1	05/06/2021 14:58	WG1663467
Dieldrin	U		0.00358	0.0208	1	05/06/2021 14:58	WG1663467
Endosulfan I	U		0.00378	0.0208	1	05/06/2021 14:58	WG1663467
Endosulfan II	U		0.00349	0.0208	1	05/06/2021 14:58	WG1663467
Endosulfan sulfate	U		0.00379	0.0208	1	05/06/2021 14:58	WG1663467
Endrin	U		0.00364	0.0208	1	05/06/2021 14:58	WG1663467
Endrin aldehyde	U		0.00353	0.0208	1	05/06/2021 14:58	WG1663467
Endrin ketone	U		0.00740	0.0208	1	05/06/2021 14:58	WG1663467
Hexachlorobenzene	U		0.00360	0.0208	1	05/06/2021 14:58	WG1663467
Heptachlor	U		0.00446	0.0208	1	05/06/2021 14:58	WG1663467
Heptachlor epoxide	U		0.00353	0.0208	1	05/06/2021 14:58	WG1663467
Methoxychlor	U		0.00504	0.0208	1	05/06/2021 14:58	WG1663467
Toxaphene	U		0.129	0.417	1	05/06/2021 14:58	WG1663467
(S) Decachlorobiphenyl	*49.0*			*30.0-150*		*05/06/2021 14:58*	WG1663467
(S) Tetrachloro-m-xylene	*49.2*			*30.0-150*		*05/06/2021 14:58*	WG1663467

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0123	0.0354	1	05/05/2021 17:44	WG1663467
PCB 1221	U		0.0123	0.0354	1	05/05/2021 17:44	WG1663467
PCB 1232	U		0.0123	0.0354	1	05/05/2021 17:44	WG1663467
PCB 1242	U		0.0123	0.0354	1	05/05/2021 17:44	WG1663467
PCB 1248	U		0.00769	0.0177	1	05/05/2021 17:44	WG1663467
PCB 1254	U		0.00769	0.0177	1	05/05/2021 17:44	WG1663467
PCB 1260	U		0.00769	0.0177	1	05/05/2021 17:44	WG1663467
Total PCBs	U		0.00769	0.0177	1	05/05/2021 17:44	WG1663467
(S) Decachlorobiphenyl	*50.2*			*30.0-150*		*05/05/2021 17:44*	WG1663467
(S) Tetrachloro-m-xylene	*46.5*			*30.0-150*		*05/05/2021 17:44*	WG1663467

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U	J4	0.00561	0.0347	1	05/05/2021 17:28	WG1664372
Acenaphthylene	U	J4	0.00488	0.0347	1	05/05/2021 17:28	WG1664372
Acetophenone	U	J4	0.0108	0.347	1	05/05/2021 17:28	WG1664372
Anthracene	U	J4	0.00618	0.0347	1	05/05/2021 17:28	WG1664372
Atrazine	U		0.0120	0.347	1	05/05/2021 17:28	WG1664372
Benzaldehyde	U		0.0184	0.347	1	05/05/2021 17:28	WG1664372
Benzo(a)anthracene	U	J4	0.00611	0.0347	1	05/05/2021 17:28	WG1664372
Benzo(b)fluoranthene	U	J4	0.00647	0.0347	1	05/05/2021 17:28	WG1664372
Benzo(k)fluoranthene	U	J4	0.00616	0.0347	1	05/05/2021 17:28	WG1664372
Benzo(g,h,i)perylene	U	J4	0.00634	0.0347	1	05/05/2021 17:28	WG1664372
Benzo(a)pyrene	U	J4	0.00645	0.0347	1	05/05/2021 17:28	WG1664372
Biphenyl	U	J4	0.0110	0.347	1	05/05/2021 17:28	WG1664372
Bis(2-chlorethoxy)methane	U	J4	0.0104	0.347	1	05/05/2021 17:28	WG1664372
Bis(2-chloroethyl)ether	U	J4	0.0115	0.347	1	05/05/2021 17:28	WG1664372

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,2-Oxybis(1-Chloropropane)	U	J4	0.0150	0.347	1	05/05/2021 17:28	WG1664372
4-Bromophenyl-phenylether	U		0.0122	0.347	1	05/05/2021 17:28	WG1664372
Caprolactam	U		0.0172	0.347	1	05/05/2021 17:28	WG1664372
Carbazole	U	J4	0.0107	0.347	1	05/05/2021 17:28	WG1664372
4-Chloroaniline	U	J4	0.0125	0.347	1	05/05/2021 17:28	WG1664372
2-Chloronaphthalene	U	J4	0.00609	0.0347	1	05/05/2021 17:28	WG1664372
4-Chlorophenyl-phenylether	U	J4	0.0121	0.347	1	05/05/2021 17:28	WG1664372
Chrysene	U	J4	0.00689	0.0347	1	05/05/2021 17:28	WG1664372
Dibenz(a,h)anthracene	U	J4	0.00961	0.0347	1	05/05/2021 17:28	WG1664372
Dibenzofuran	U	J4	0.0114	0.347	1	05/05/2021 17:28	WG1664372
3,3-Dichlorobenzidine	U	J4	0.0128	0.347	1	05/05/2021 17:28	WG1664372
2,4-Dinitrotoluene	U	J4	0.00994	0.347	1	05/05/2021 17:28	WG1664372
2,6-Dinitrotoluene	U	J4	0.0114	0.347	1	05/05/2021 17:28	WG1664372
Fluoranthene	U	J4	0.00626	0.0347	1	05/05/2021 17:28	WG1664372
Fluorene	U	J4	0.00564	0.0347	1	05/05/2021 17:28	WG1664372
Hexachlorobenzene	U	J4	0.0123	0.347	1	05/05/2021 17:28	WG1664372
Hexachloro-1,3-butadiene	U	J4	0.0117	0.347	1	05/05/2021 17:28	WG1664372
Hexachlorocyclopentadiene	U		0.0182	0.347	1	05/05/2021 17:28	WG1664372
Hexachloroethane	U		0.0136	0.347	1	05/05/2021 17:28	WG1664372
Indeno(1,2,3-cd)pyrene	U	J4	0.00980	0.0347	1	05/05/2021 17:28	WG1664372
Isophorone	U	J4	0.0106	0.347	1	05/05/2021 17:28	WG1664372
2-Methylnaphthalene	U	J4	0.00450	0.0347	1	05/05/2021 17:28	WG1664372
Naphthalene	U	J4	0.00871	0.0347	1	05/05/2021 17:28	WG1664372
2-Nitroaniline	U		0.0111	0.347	1	05/05/2021 17:28	WG1664372
3-Nitroaniline	U	J4	0.0110	0.347	1	05/05/2021 17:28	WG1664372
4-Nitroaniline	U		0.0101	0.347	1	05/05/2021 17:28	WG1664372
Nitrobenzene	U	J4	0.0121	0.347	1	05/05/2021 17:28	WG1664372
n-Nitrosodiphenylamine	U		0.0262	0.347	1	05/05/2021 17:28	WG1664372
n-Nitrosodi-n-propylamine	U	J4	0.0116	0.347	1	05/05/2021 17:28	WG1664372
Phenanthrene	U	J4	0.00688	0.0347	1	05/05/2021 17:28	WG1664372
Benzylbutyl phthalate	U	J4	0.0108	0.347	1	05/05/2021 17:28	WG1664372
Bis(2-ethylhexyl)phthalate	U	J4	0.0439	0.347	1	05/05/2021 17:28	WG1664372
Di-n-butyl phthalate	U	J4	0.0119	0.347	1	05/05/2021 17:28	WG1664372
Diethyl phthalate	U	J4	0.0115	0.347	1	05/05/2021 17:28	WG1664372
Dimethyl phthalate	U	J4	0.0735	0.347	1	05/05/2021 17:28	WG1664372
Di-n-octyl phthalate	U	J4	0.0234	0.347	1	05/05/2021 17:28	WG1664372
Pyrene	U	J4	0.00675	0.0347	1	05/05/2021 17:28	WG1664372
1,2,4,5-Tetrachlorobenzene	U	J4	0.0166	0.347	1	05/05/2021 17:28	WG1664372
4-Chloro-3-methylphenol	U	J4	0.0112	0.347	1	05/05/2021 17:28	WG1664372
2-Chlorophenol	U	J4	0.0115	0.347	1	05/05/2021 17:28	WG1664372
2-Methylphenol	U	J4	0.0104	0.347	1	05/05/2021 17:28	WG1664372
3&4-Methyl Phenol	U		0.0108	0.347	1	05/05/2021 17:28	WG1664372
2,4-Dichlorophenol	U	J4	0.0101	0.347	1	05/05/2021 17:28	WG1664372
2,4-Dimethylphenol	U	J4	0.00906	0.347	1	05/05/2021 17:28	WG1664372
4,6-Dinitro-2-methylphenol	U	J4	0.0786	0.347	1	05/05/2021 17:28	WG1664372
2,4-Dinitrophenol	U		0.0811	0.347	1	05/05/2021 17:28	WG1664372
2-Nitrophenol	U	J4	0.0124	0.347	1	05/05/2021 17:28	WG1664372
4-Nitrophenol	U		0.0108	0.347	1	05/05/2021 17:28	WG1664372
Pentachlorophenol	U		0.00933	0.347	1	05/05/2021 17:28	WG1664372
Phenol	U		0.0140	0.347	1	05/05/2021 17:28	WG1664372
2,4,5-Trichlorophenol	U	J4	0.0118	0.347	1	05/05/2021 17:28	WG1664372
2,4,6-Trichlorophenol	U	J4	0.0111	0.347	1	05/05/2021 17:28	WG1664372
(S) 2-Fluorophenol	*70.8*			*30.0-130*		*05/05/2021 17:28*	WG1664372
(S) Phenol-d5	*67.3*			*30.0-130*		*05/05/2021 17:28*	WG1664372
(S) Nitrobenzene-d5	*62.1*			*30.0-130*		*05/05/2021 17:28*	WG1664372
(S) 2-Fluorobiphenyl	*64.5*			*30.0-130*		*05/05/2021 17:28*	WG1664372

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2,4,6-Tribromophenol	*76.1*			*30.0-130*		*05/05/2021 17:28*	WG1664372
(S) p-Terphenyl-d14	*63.6*			*30.0-130*		*05/05/2021 17:28*	WG1664372

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.3		1	05/04/2021 13:40	WG1664020

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0187	0.0416	1	05/06/2021 16:55	WG1662823

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aluminum	2470		6.32	10.4	1	05/07/2021 08:44	WG1662844
Antimony	U		0.565	2.08	1	05/07/2021 08:44	WG1662844
Arsenic	0.954	J	0.538	2.08	1	05/07/2021 08:44	WG1662844
Barium	7.05		0.0885	0.519	1	05/07/2021 08:44	WG1662844
Beryllium	0.209		0.0327	0.208	1	05/07/2021 08:44	WG1662844
Cadmium	U		0.0489	0.519	1	05/07/2021 08:44	WG1662844
Calcium	60.1	J	11.0	104	1	05/07/2021 08:44	WG1662844
Chromium	5.21		0.138	1.04	1	05/07/2021 08:44	WG1662844
Cobalt	1.32		0.0842	1.04	1	05/07/2021 08:44	WG1662844
Copper	2.96		0.416	2.08	1	05/07/2021 08:44	WG1662844
Iron	5030		2.33	10.4	1	05/07/2021 08:44	WG1662844
Lead	1.88		0.216	0.519	1	05/07/2021 08:44	WG1662844
Magnesium	688		7.67	104	1	05/07/2021 08:44	WG1662844
Manganese	16.9		0.138	1.04	1	05/07/2021 08:44	WG1662844
Nickel	3.63		0.137	2.08	1	05/07/2021 08:44	WG1662844
Potassium	636		21.7	104	1	05/07/2021 08:44	WG1662844
Selenium	0.811	J	0.794	2.08	1	05/07/2021 08:44	WG1662844
Silver	U		0.132	1.04	1	05/07/2021 08:44	WG1662844
Sodium	52.3	J	42.8	104	1	05/07/2021 08:44	WG1662844
Thallium	U		0.409	2.08	1	05/07/2021 08:44	WG1662844
Vanadium	6.66		0.526	2.08	1	05/07/2021 08:44	WG1662844
Zinc	10.1		0.864	5.19	1	05/07/2021 08:44	WG1662844

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0215	0.0519	1	05/08/2021 01:42	WG1666286
Benzene	U		0.000390	0.00104	1	05/08/2021 01:42	WG1666286
Bromochloromethane	U		0.000348	0.00104	1	05/08/2021 01:42	WG1666286
Bromodichloromethane	U		0.000753	0.00104	1	05/08/2021 01:42	WG1666286
Bromoform	U		0.000440	0.00104	1	05/08/2021 01:42	WG1666286
Bromomethane	U		0.00122	0.00519	1	05/08/2021 01:42	WG1666286
Carbon disulfide	U		0.000727	0.00104	1	05/08/2021 01:42	WG1666286
Carbon tetrachloride	U		0.000258	0.00104	1	05/08/2021 01:42	WG1666286
Chlorobenzene	U		0.000199	0.00104	1	05/08/2021 01:42	WG1666286
Chlorodibromomethane	U		0.000233	0.00104	1	05/08/2021 01:42	WG1666286
Chloroethane	U		0.00104	0.00519	1	05/08/2021 01:42	WG1666286
Chloroform	U		0.00107	0.00519	1	05/08/2021 01:42	WG1666286
Chloromethane	U		0.000675	0.00260	1	05/08/2021 01:42	WG1666286
Cyclohexane	U		0.000278	0.00104	1	05/08/2021 01:42	WG1666286
1,2-Dibromo-3-Chloropropane	U		0.00197	0.00519	1	05/08/2021 01:42	WG1666286
1,2-Dibromoethane	U		0.000260	0.00104	1	05/08/2021 01:42	WG1666286
Dichlorodifluoromethane	U		0.000298	0.00519	1	05/08/2021 01:42	WG1666286
1,1-Dichloroethane	U		0.000278	0.00104	1	05/08/2021 01:42	WG1666286

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000467	0.00104	1	05/08/2021 01:42	WG1666286
1,2-Dichlorobenzene	U		0.000441	0.00104	1	05/08/2021 01:42	WG1666286
1,3-Dichlorobenzene	U		0.000623	0.00104	1	05/08/2021 01:42	WG1666286
1,4-Dichlorobenzene	U		0.000862	0.00104	1	05/08/2021 01:42	WG1666286
1,1-Dichloroethene	U		0.000369	0.00104	1	05/08/2021 01:42	WG1666286
cis-1,2-Dichloroethene	U		0.000493	0.00104	1	05/08/2021 01:42	WG1666286
trans-1,2-Dichloroethene	U		0.000519	0.00104	1	05/08/2021 01:42	WG1666286
1,2-Dichloropropane	U		0.000170	0.00104	1	05/08/2021 01:42	WG1666286
cis-1,3-Dichloropropene	U		0.000441	0.00104	1	05/08/2021 01:42	WG1666286
trans-1,3-Dichloropropene	U		0.000701	0.00104	1	05/08/2021 01:42	WG1666286
Ethylbenzene	U		0.000312	0.00104	1	05/08/2021 01:42	WG1666286
2-Hexanone	U		0.00186	0.0104	1	05/08/2021 01:42	WG1666286
Isopropylbenzene	U		0.000441	0.00104	1	05/08/2021 01:42	WG1666286
2-Butanone (MEK)	U		0.00486	0.0104	1	05/08/2021 01:42	WG1666286
Methyl Acetate	U		0.00312	0.0208	1	05/08/2021 01:42	WG1666286
Methyl Cyclohexane	U		0.000805	0.00104	1	05/08/2021 01:42	WG1666286
Methylene Chloride	U		0.00104	0.00519	1	05/08/2021 01:42	WG1666286
4-Methyl-2-pentanone (MIBK)	U		0.000987	0.0104	1	05/08/2021 01:42	WG1666286
Methyl tert-butyl ether	U		0.000364	0.00104	1	05/08/2021 01:42	WG1666286
Styrene	U		0.000232	0.00104	1	05/08/2021 01:42	WG1666286
1,1,2,2-Tetrachloroethane	U	C3	0.000240	0.00104	1	05/08/2021 01:42	WG1666286
Tetrachloroethene	U		0.000338	0.00104	1	05/08/2021 01:42	WG1666286
Toluene	U		0.00128	0.00519	1	05/08/2021 01:42	WG1666286
1,2,3-Trichlorobenzene	U		0.000318	0.00104	1	05/08/2021 01:42	WG1666286
1,2,4-Trichlorobenzene	U		0.000403	0.00104	1	05/08/2021 01:42	WG1666286
1,1,1-Trichloroethane	U		0.000384	0.00104	1	05/08/2021 01:42	WG1666286
1,1,2-Trichloroethane	U		0.000441	0.00104	1	05/08/2021 01:42	WG1666286
Trichloroethene	U		0.000208	0.00104	1	05/08/2021 01:42	WG1666286
Trichlorofluoromethane	U		0.000370	0.00519	1	05/08/2021 01:42	WG1666286
1,1,2-Trichlorotrifluoroethane	U		0.000443	0.00104	1	05/08/2021 01:42	WG1666286
Vinyl chloride	U		0.000235	0.00104	1	05/08/2021 01:42	WG1666286
Xylenes, Total	U		0.000519	0.00312	1	05/08/2021 01:42	WG1666286
(S) Toluene-d8	*110*			*75.0-131*		*05/08/2021 01:42*	WG1666286
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*05/08/2021 01:42*	WG1666286
(S) 1,2-Dichloroethane-d4	*127*			*70.0-130*		*05/08/2021 01:42*	WG1666286

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	0.00154	J N	0.000	0.000	1	05/08/2021 01:42	WG1666286		
1-Hexanol, 2-Ethyl-	0.00154	J N	0.000	0.000	1	05/08/2021 01:42	WG1666286	000104-76-7	8.52

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00616	0.0346	1	05/04/2021 21:39	WG1663447
Acenaphthene	U		0.00560	0.0346	1	05/04/2021 21:39	WG1663447
Acenaphthylene	U		0.00487	0.0346	1	05/04/2021 21:39	WG1663447
Benzo(a)anthracene	U		0.00610	0.0346	1	05/04/2021 21:39	WG1663447
Benzo(a)pyrene	U		0.00643	0.0346	1	05/04/2021 21:39	WG1663447
Benzo(b)fluoranthene	U		0.00645	0.0346	1	05/04/2021 21:39	WG1663447
Benzo(g,h,i)perylene	U		0.00633	0.0346	1	05/04/2021 21:39	WG1663447

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(k)fluoranthene	U		0.00615	0.0346	1	05/04/2021 21:39	WG1663447
Chrysene	U		0.00688	0.0346	1	05/04/2021 21:39	WG1663447
Dibenz(a,h)anthracene	U		0.00959	0.0346	1	05/04/2021 21:39	WG1663447
Fluoranthene	U		0.00624	0.0346	1	05/04/2021 21:39	WG1663447
Fluorene	U		0.00563	0.0346	1	05/04/2021 21:39	WG1663447
Indeno(1,2,3-cd)pyrene	U		0.00977	0.0346	1	05/04/2021 21:39	WG1663447
Naphthalene	U		0.00868	0.0346	1	05/04/2021 21:39	WG1663447
Phenanthrene	U		0.00687	0.0346	1	05/04/2021 21:39	WG1663447
Pyrene	U		0.00673	0.0346	1	05/04/2021 21:39	WG1663447
(S) Nitrobenzene-d5	*83.4*			*31.0-146*		*05/04/2021 21:39*	WG1663447
(S) 2-Fluorobiphenyl	*93.4*			*31.0-130*		*05/04/2021 21:39*	WG1663447
(S) p-Terphenyl-d14	*127*			*20.0-127*		*05/04/2021 21:39*	WG1663447

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.2		1	05/04/2021 13:40	WG1664020

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0195	0.0434	1	05/06/2021 16:57	WG1662823

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aluminum	2980		6.59	10.8	1	05/07/2021 08:46	WG1662844
Antimony	0.762	J	0.590	2.17	1	05/07/2021 08:46	WG1662844
Arsenic	2.81		0.562	2.17	1	05/07/2021 08:46	WG1662844
Barium	4.33		0.0924	0.542	1	05/07/2021 08:46	WG1662844
Beryllium	0.258		0.0342	0.217	1	05/07/2021 08:46	WG1662844
Cadmium	U		0.0511	0.542	1	05/07/2021 08:46	WG1662844
Calcium	121		11.5	108	1	05/07/2021 08:46	WG1662844
Chromium	10.3		0.144	1.08	1	05/07/2021 08:46	WG1662844
Cobalt	1.65		0.0879	1.08	1	05/07/2021 08:46	WG1662844
Copper	2.41		0.434	2.17	1	05/07/2021 08:46	WG1662844
Iron	8200		2.43	10.8	1	05/07/2021 08:46	WG1662844
Lead	2.50		0.226	0.542	1	05/07/2021 08:46	WG1662844
Magnesium	847		8.00	108	1	05/07/2021 08:46	WG1662844
Manganese	18.3		0.144	1.08	1	05/07/2021 08:46	WG1662844
Nickel	3.68		0.143	2.17	1	05/07/2021 08:46	WG1662844
Potassium	1420		22.7	108	1	05/07/2021 08:46	WG1662844
Selenium	U		0.828	2.17	1	05/07/2021 08:46	WG1662844
Silver	U		0.138	1.08	1	05/07/2021 08:46	WG1662844
Sodium	58.2	J	44.7	108	1	05/07/2021 08:46	WG1662844
Thallium	U		0.427	2.17	1	05/07/2021 08:46	WG1662844
Vanadium	12.3		0.549	2.17	1	05/07/2021 08:46	WG1662844
Zinc	10.9		0.902	5.42	1	05/07/2021 08:46	WG1662844

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0224	0.0542	1	05/08/2021 02:03	WG1666286
Benzene	U		0.000407	0.00108	1	05/08/2021 02:03	WG1666286
Bromochloromethane	U		0.000363	0.00108	1	05/08/2021 02:03	WG1666286
Bromodichloromethane	U		0.000786	0.00108	1	05/08/2021 02:03	WG1666286
Bromoform	U		0.000460	0.00108	1	05/08/2021 02:03	WG1666286
Bromomethane	U		0.00127	0.00542	1	05/08/2021 02:03	WG1666286
Carbon disulfide	U		0.000759	0.00108	1	05/08/2021 02:03	WG1666286
Carbon tetrachloride	U		0.000269	0.00108	1	05/08/2021 02:03	WG1666286
Chlorobenzene	U		0.000208	0.00108	1	05/08/2021 02:03	WG1666286
Chlorodibromomethane	U		0.000243	0.00108	1	05/08/2021 02:03	WG1666286
Chloroethane	U		0.00108	0.00542	1	05/08/2021 02:03	WG1666286
Chloroform	U		0.00112	0.00542	1	05/08/2021 02:03	WG1666286
Chloromethane	U		0.000705	0.00271	1	05/08/2021 02:03	WG1666286
Cyclohexane	U		0.000291	0.00108	1	05/08/2021 02:03	WG1666286
1,2-Dibromo-3-Chloropropane	U		0.00206	0.00542	1	05/08/2021 02:03	WG1666286
1,2-Dibromoethane	U		0.000271	0.00108	1	05/08/2021 02:03	WG1666286
Dichlorodifluoromethane	U		0.000311	0.00542	1	05/08/2021 02:03	WG1666286
1,1-Dichloroethane	U		0.000291	0.00108	1	05/08/2021 02:03	WG1666286

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000488	0.00108	1	05/08/2021 02:03	WG1666286
1,2-Dichlorobenzene	U		0.000461	0.00108	1	05/08/2021 02:03	WG1666286
1,3-Dichlorobenzene	U		0.000650	0.00108	1	05/08/2021 02:03	WG1666286
1,4-Dichlorobenzene	U		0.000900	0.00108	1	05/08/2021 02:03	WG1666286
1,1-Dichloroethene	U		0.000385	0.00108	1	05/08/2021 02:03	WG1666286
cis-1,2-Dichloroethene	U		0.000515	0.00108	1	05/08/2021 02:03	WG1666286
trans-1,2-Dichloroethene	U		0.000542	0.00108	1	05/08/2021 02:03	WG1666286
1,2-Dichloropropane	U		0.000178	0.00108	1	05/08/2021 02:03	WG1666286
cis-1,3-Dichloropropene	U		0.000461	0.00108	1	05/08/2021 02:03	WG1666286
trans-1,3-Dichloropropene	U		0.000732	0.00108	1	05/08/2021 02:03	WG1666286
Ethylbenzene	U		0.000325	0.00108	1	05/08/2021 02:03	WG1666286
2-Hexanone	U		0.00194	0.0108	1	05/08/2021 02:03	WG1666286
Isopropylbenzene	U		0.000461	0.00108	1	05/08/2021 02:03	WG1666286
2-Butanone (MEK)	U		0.00507	0.0108	1	05/08/2021 02:03	WG1666286
Methyl Acetate	U		0.00325	0.0217	1	05/08/2021 02:03	WG1666286
Methyl Cyclohexane	U		0.000840	0.00108	1	05/08/2021 02:03	WG1666286
Methylene Chloride	U		0.00108	0.00542	1	05/08/2021 02:03	WG1666286
4-Methyl-2-pentanone (MIBK)	U		0.00103	0.0108	1	05/08/2021 02:03	WG1666286
Methyl tert-butyl ether	U		0.000379	0.00108	1	05/08/2021 02:03	WG1666286
Styrene	U		0.000242	0.00108	1	05/08/2021 02:03	WG1666286
1,1,2,2-Tetrachloroethane	U	C3	0.000250	0.00108	1	05/08/2021 02:03	WG1666286
Tetrachloroethene	U		0.000352	0.00108	1	05/08/2021 02:03	WG1666286
Toluene	U		0.00133	0.00542	1	05/08/2021 02:03	WG1666286
1,2,3-Trichlorobenzene	U		0.000332	0.00108	1	05/08/2021 02:03	WG1666286
1,2,4-Trichlorobenzene	U		0.000421	0.00108	1	05/08/2021 02:03	WG1666286
1,1,1-Trichloroethane	U		0.000401	0.00108	1	05/08/2021 02:03	WG1666286
1,1,2-Trichloroethane	U		0.000461	0.00108	1	05/08/2021 02:03	WG1666286
Trichloroethene	U		0.000217	0.00108	1	05/08/2021 02:03	WG1666286
Trichlorofluoromethane	U		0.000386	0.00542	1	05/08/2021 02:03	WG1666286
1,1,2-Trichlorotrifluoroethane	U		0.000462	0.00108	1	05/08/2021 02:03	WG1666286
Vinyl chloride	U		0.000245	0.00108	1	05/08/2021 02:03	WG1666286
Xylenes, Total	U		0.000542	0.00325	1	05/08/2021 02:03	WG1666286
(S) Toluene-d8	*108*			*75.0-131*		*05/08/2021 02:03*	WG1666286
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*05/08/2021 02:03*	WG1666286
(S) 1,2-Dichloroethane-d4	*123*			*70.0-130*		*05/08/2021 02:03*	WG1666286

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	0.000		0.000	0.000	1	05/08/2021 02:03	WG1666286		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00643	0.0361	1	05/04/2021 22:00	WG1663447
Acenaphthene	U		0.00584	0.0361	1	05/04/2021 22:00	WG1663447
Acenaphthylene	U		0.00508	0.0361	1	05/04/2021 22:00	WG1663447
Benzo(a)anthracene	U		0.00636	0.0361	1	05/04/2021 22:00	WG1663447
Benzo(a)pyrene	U		0.00671	0.0361	1	05/04/2021 22:00	WG1663447
Benzo(b)fluoranthene	U		0.00673	0.0361	1	05/04/2021 22:00	WG1663447
Benzo(g,h,i)perylene	U		0.00660	0.0361	1	05/04/2021 22:00	WG1663447
Benzo(k)fluoranthene	U		0.00642	0.0361	1	05/04/2021 22:00	WG1663447

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	U		0.00718	0.0361	1	05/04/2021 22:00	WG1663447
Dibenz(a,h)anthracene	U		0.0100	0.0361	1	05/04/2021 22:00	WG1663447
Fluoranthene	U		0.00652	0.0361	1	05/04/2021 22:00	WG1663447
Fluorene	U		0.00588	0.0361	1	05/04/2021 22:00	WG1663447
Indeno(1,2,3-cd)pyrene	U		0.0102	0.0361	1	05/04/2021 22:00	WG1663447
Naphthalene	U		0.00906	0.0361	1	05/04/2021 22:00	WG1663447
Phenanthrene	U		0.00717	0.0361	1	05/04/2021 22:00	WG1663447
Pyrene	U		0.00703	0.0361	1	05/04/2021 22:00	WG1663447
(S) Nitrobenzene-d5	*91.8*			*31.0-146*		*05/04/2021 22:00*	WG1663447
(S) 2-Fluorobiphenyl	*101*			*31.0-130*		*05/04/2021 22:00*	WG1663447
(S) p-Terphenyl-d14	*133*	J1		*20.0-127*		*05/04/2021 22:00*	WG1663447

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.8		1	05/04/2021 13:40	WG1664020

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0198	0.0441	1	05/06/2021 17:00	WG1662823

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aluminum	2250		6.70	11.0	1	05/07/2021 08:49	WG1662844
Antimony	U		0.599	2.20	1	05/07/2021 08:49	WG1662844
Arsenic	2.29		0.571	2.20	1	05/07/2021 08:49	WG1662844
Barium	6.00		0.0938	0.551	1	05/07/2021 08:49	WG1662844
Beryllium	0.375		0.0347	0.220	1	05/07/2021 08:49	WG1662844
Cadmium	U		0.0519	0.551	1	05/07/2021 08:49	WG1662844
Calcium	131		11.7	110	1	05/07/2021 08:49	WG1662844
Chromium	11.4		0.146	1.10	1	05/07/2021 08:49	WG1662844
Cobalt	1.23		0.0893	1.10	1	05/07/2021 08:49	WG1662844
Copper	3.03		0.441	2.20	1	05/07/2021 08:49	WG1662844
Iron	8210		2.47	11.0	1	05/07/2021 08:49	WG1662844
Lead	2.80		0.229	0.551	1	05/07/2021 08:49	WG1662844
Magnesium	410		8.13	110	1	05/07/2021 08:49	WG1662844
Manganese	13.2		0.146	1.10	1	05/07/2021 08:49	WG1662844
Nickel	2.56		0.145	2.20	1	05/07/2021 08:49	WG1662844
Potassium	575		23.0	110	1	05/07/2021 08:49	WG1662844
Selenium	U		0.842	2.20	1	05/07/2021 08:49	WG1662844
Silver	U		0.140	1.10	1	05/07/2021 08:49	WG1662844
Sodium	53.9	J	45.4	110	1	05/07/2021 08:49	WG1662844
Thallium	U		0.434	2.20	1	05/07/2021 08:49	WG1662844
Vanadium	10.4		0.557	2.20	1	05/07/2021 08:49	WG1662844
Zinc	12.9		0.916	5.51	1	05/07/2021 08:49	WG1662844

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0228	0.0551	1	05/08/2021 02:25	WG1666286
Benzene	U		0.000413	0.00110	1	05/08/2021 02:25	WG1666286
Bromochloromethane	U		0.000369	0.00110	1	05/08/2021 02:25	WG1666286
Bromodichloromethane	U		0.000799	0.00110	1	05/08/2021 02:25	WG1666286
Bromoform	U		0.000467	0.00110	1	05/08/2021 02:25	WG1666286
Bromomethane	U		0.00129	0.00551	1	05/08/2021 02:25	WG1666286
Carbon disulfide	U		0.000771	0.00110	1	05/08/2021 02:25	WG1666286
Carbon tetrachloride	U		0.000273	0.00110	1	05/08/2021 02:25	WG1666286
Chlorobenzene	U		0.000211	0.00110	1	05/08/2021 02:25	WG1666286
Chlorodibromomethane	U		0.000247	0.00110	1	05/08/2021 02:25	WG1666286
Chloroethane	U		0.00110	0.00551	1	05/08/2021 02:25	WG1666286
Chloroform	U		0.00113	0.00551	1	05/08/2021 02:25	WG1666286
Chloromethane	U		0.000716	0.00275	1	05/08/2021 02:25	WG1666286
Cyclohexane	U		0.000295	0.00110	1	05/08/2021 02:25	WG1666286
1,2-Dibromo-3-Chloropropane	U		0.00209	0.00551	1	05/08/2021 02:25	WG1666286
1,2-Dibromoethane	U		0.000275	0.00110	1	05/08/2021 02:25	WG1666286
Dichlorodifluoromethane	U		0.000316	0.00551	1	05/08/2021 02:25	WG1666286
1,1-Dichloroethane	U		0.000295	0.00110	1	05/08/2021 02:25	WG1666286

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000496	0.00110	1	05/08/2021 02:25	WG1666286
1,2-Dichlorobenzene	U		0.000468	0.00110	1	05/08/2021 02:25	WG1666286
1,3-Dichlorobenzene	U		0.000661	0.00110	1	05/08/2021 02:25	WG1666286
1,4-Dichlorobenzene	U		0.000914	0.00110	1	05/08/2021 02:25	WG1666286
1,1-Dichloroethene	U		0.000391	0.00110	1	05/08/2021 02:25	WG1666286
cis-1,2-Dichloroethene	U		0.000523	0.00110	1	05/08/2021 02:25	WG1666286
trans-1,2-Dichloroethene	U		0.000551	0.00110	1	05/08/2021 02:25	WG1666286
1,2-Dichloropropane	U		0.000181	0.00110	1	05/08/2021 02:25	WG1666286
cis-1,3-Dichloropropene	U		0.000468	0.00110	1	05/08/2021 02:25	WG1666286
trans-1,3-Dichloropropene	U		0.000743	0.00110	1	05/08/2021 02:25	WG1666286
Ethylbenzene	U		0.000330	0.00110	1	05/08/2021 02:25	WG1666286
2-Hexanone	U		0.00197	0.0110	1	05/08/2021 02:25	WG1666286
Isopropylbenzene	U		0.000468	0.00110	1	05/08/2021 02:25	WG1666286
2-Butanone (MEK)	U		0.00515	0.0110	1	05/08/2021 02:25	WG1666286
Methyl Acetate	U		0.00330	0.0220	1	05/08/2021 02:25	WG1666286
Methyl Cyclohexane	U		0.000854	0.00110	1	05/08/2021 02:25	WG1666286
Methylene Chloride	U		0.00110	0.00551	1	05/08/2021 02:25	WG1666286
4-Methyl-2-pentanone (MIBK)	U		0.00105	0.0110	1	05/08/2021 02:25	WG1666286
Methyl tert-butyl ether	U		0.000386	0.00110	1	05/08/2021 02:25	WG1666286
Styrene	U		0.000246	0.00110	1	05/08/2021 02:25	WG1666286
1,1,2,2-Tetrachloroethane	U	C3	0.000254	0.00110	1	05/08/2021 02:25	WG1666286
Tetrachloroethene	U		0.000358	0.00110	1	05/08/2021 02:25	WG1666286
Toluene	U		0.00135	0.00551	1	05/08/2021 02:25	WG1666286
1,2,3-Trichlorobenzene	U		0.000337	0.00110	1	05/08/2021 02:25	WG1666286
1,2,4-Trichlorobenzene	U		0.000427	0.00110	1	05/08/2021 02:25	WG1666286
1,1,1-Trichloroethane	U		0.000408	0.00110	1	05/08/2021 02:25	WG1666286
1,1,2-Trichloroethane	U		0.000468	0.00110	1	05/08/2021 02:25	WG1666286
Trichloroethene	U		0.000220	0.00110	1	05/08/2021 02:25	WG1666286
Trichlorofluoromethane	U		0.000392	0.00551	1	05/08/2021 02:25	WG1666286
1,1,2-Trichlorotrifluoroethane	U		0.000469	0.00110	1	05/08/2021 02:25	WG1666286
Vinyl chloride	U		0.000249	0.00110	1	05/08/2021 02:25	WG1666286
Xylenes, Total	U		0.000551	0.00330	1	05/08/2021 02:25	WG1666286
(S) Toluene-d8	*109*			*75.0-131*		*05/08/2021 02:25*	WG1666286
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*05/08/2021 02:25*	WG1666286
(S) 1,2-Dichloroethane-d4	*126*			*70.0-130*		*05/08/2021 02:25*	WG1666286

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	0.000		0.000	0.000	1	05/08/2021 02:25	WG1666286		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U	J6	0.00653	0.0367	1	05/04/2021 22:20	WG1663447
Acenaphthene	U	J6	0.00594	0.0367	1	05/04/2021 22:20	WG1663447
Acenaphthylene	U	J6	0.00517	0.0367	1	05/04/2021 22:20	WG1663447
Benzo(a)anthracene	U	J6	0.00647	0.0367	1	05/04/2021 22:20	WG1663447
Benzo(a)pyrene	U	J6	0.00682	0.0367	1	05/04/2021 22:20	WG1663447
Benzo(b)fluoranthene	U	J6	0.00684	0.0367	1	05/04/2021 22:20	WG1663447
Benzo(g,h,i)perylene	U	J6	0.00671	0.0367	1	05/04/2021 22:20	WG1663447
Benzo(k)fluoranthene	U	J6	0.00652	0.0367	1	05/04/2021 22:20	WG1663447

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	U	J6	0.00729	0.0367	1	05/04/2021 22:20	WG1663447
Dibenz(a,h)anthracene	U	J6	0.0102	0.0367	1	05/04/2021 22:20	WG1663447
Fluoranthene	0.0127	J J6	0.00662	0.0367	1	05/04/2021 22:20	WG1663447
Fluorene	U	J6	0.00597	0.0367	1	05/04/2021 22:20	WG1663447
Indeno(1,2,3-cd)pyrene	U	J6	0.0104	0.0367	1	05/04/2021 22:20	WG1663447
Naphthalene	U	J6	0.00921	0.0367	1	05/04/2021 22:20	WG1663447
Phenanthrene	0.00995	J J6	0.00728	0.0367	1	05/04/2021 22:20	WG1663447
Pyrene	0.0155	J J6	0.00714	0.0367	1	05/04/2021 22:20	WG1663447
(S) Nitrobenzene-d5	*66.5*			*31.0-146*		*05/04/2021 22:20*	WG1663447
(S) 2-Fluorobiphenyl	*74.0*			*31.0-130*		*05/04/2021 22:20*	WG1663447
(S) p-Terphenyl-d14	*93.7*			*20.0-127*		*05/04/2021 22:20*	WG1663447

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.7		1	05/04/2021 13:40	WG1664020

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0188	0.0418	1	05/06/2021 17:02	WG1662823

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aluminum	2750		6.35	10.4	1	05/07/2021 08:51	WG1662844
Antimony	U		0.568	2.09	1	05/07/2021 08:51	WG1662844
Arsenic	1.26	J	0.541	2.09	1	05/07/2021 08:51	WG1662844
Barium	8.12		0.0890	0.522	1	05/07/2021 08:51	WG1662844
Beryllium	0.302		0.0329	0.209	1	05/07/2021 08:51	WG1662844
Cadmium	U		0.0492	0.522	1	05/07/2021 08:51	WG1662844
Calcium	90.0	J	11.1	104	1	05/07/2021 08:51	WG1662844
Chromium	8.50		0.139	1.04	1	05/07/2021 08:51	WG1662844
Cobalt	1.26		0.0847	1.04	1	05/07/2021 08:51	WG1662844
Copper	3.56		0.418	2.09	1	05/07/2021 08:51	WG1662844
Iron	6420		2.34	10.4	1	05/07/2021 08:51	WG1662844
Lead	2.91		0.217	0.522	1	05/07/2021 08:51	WG1662844
Magnesium	665		7.71	104	1	05/07/2021 08:51	WG1662844
Manganese	18.4		0.139	1.04	1	05/07/2021 08:51	WG1662844
Nickel	3.50		0.138	2.09	1	05/07/2021 08:51	WG1662844
Potassium	655		21.8	104	1	05/07/2021 08:51	WG1662844
Selenium	U		0.798	2.09	1	05/07/2021 08:51	WG1662844
Silver	U		0.133	1.04	1	05/07/2021 08:51	WG1662844
Sodium	56.5	J	43.0	104	1	05/07/2021 08:51	WG1662844
Thallium	U		0.412	2.09	1	05/07/2021 08:51	WG1662844
Vanadium	8.86		0.528	2.09	1	05/07/2021 08:51	WG1662844
Zinc	10.0		0.869	5.22	1	05/07/2021 08:51	WG1662844

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0216	0.0522	1	05/08/2021 06:43	WG1666286
Benzene	U		0.000392	0.00104	1	05/08/2021 06:43	WG1666286
Bromochloromethane	U		0.000350	0.00104	1	05/08/2021 06:43	WG1666286
Bromodichloromethane	U		0.000757	0.00104	1	05/08/2021 06:43	WG1666286
Bromoform	U		0.000443	0.00104	1	05/08/2021 06:43	WG1666286
Bromomethane	U		0.00122	0.00522	1	05/08/2021 06:43	WG1666286
Carbon disulfide	U		0.000731	0.00104	1	05/08/2021 06:43	WG1666286
Carbon tetrachloride	U		0.000259	0.00104	1	05/08/2021 06:43	WG1666286
Chlorobenzene	U		0.000201	0.00104	1	05/08/2021 06:43	WG1666286
Chlorodibromomethane	U		0.000234	0.00104	1	05/08/2021 06:43	WG1666286
Chloroethane	U		0.00104	0.00522	1	05/08/2021 06:43	WG1666286
Chloroform	U		0.00108	0.00522	1	05/08/2021 06:43	WG1666286
Chloromethane	U		0.000679	0.00261	1	05/08/2021 06:43	WG1666286
Cyclohexane	U		0.000280	0.00104	1	05/08/2021 06:43	WG1666286
1,2-Dibromo-3-Chloropropane	U		0.00198	0.00522	1	05/08/2021 06:43	WG1666286
1,2-Dibromoethane	U		0.000261	0.00104	1	05/08/2021 06:43	WG1666286
Dichlorodifluoromethane	U		0.000300	0.00522	1	05/08/2021 06:43	WG1666286
1,1-Dichloroethane	U		0.000280	0.00104	1	05/08/2021 06:43	WG1666286

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000470	0.00104	1	05/08/2021 06:43	WG1666286
1,2-Dichlorobenzene	U		0.000444	0.00104	1	05/08/2021 06:43	WG1666286
1,3-Dichlorobenzene	U		0.000627	0.00104	1	05/08/2021 06:43	WG1666286
1,4-Dichlorobenzene	U		0.000867	0.00104	1	05/08/2021 06:43	WG1666286
1,1-Dichloroethene	U		0.000371	0.00104	1	05/08/2021 06:43	WG1666286
cis-1,2-Dichloroethene	U		0.000496	0.00104	1	05/08/2021 06:43	WG1666286
trans-1,2-Dichloroethene	U		0.000522	0.00104	1	05/08/2021 06:43	WG1666286
1,2-Dichloropropane	U		0.000171	0.00104	1	05/08/2021 06:43	WG1666286
cis-1,3-Dichloropropene	U		0.000444	0.00104	1	05/08/2021 06:43	WG1666286
trans-1,3-Dichloropropene	U		0.000705	0.00104	1	05/08/2021 06:43	WG1666286
Ethylbenzene	U		0.000313	0.00104	1	05/08/2021 06:43	WG1666286
2-Hexanone	U		0.00187	0.0104	1	05/08/2021 06:43	WG1666286
Isopropylbenzene	U		0.000444	0.00104	1	05/08/2021 06:43	WG1666286
2-Butanone (MEK)	U		0.00489	0.0104	1	05/08/2021 06:43	WG1666286
Methyl Acetate	U		0.00313	0.0209	1	05/08/2021 06:43	WG1666286
Methyl Cyclohexane	U		0.000809	0.00104	1	05/08/2021 06:43	WG1666286
Methylene Chloride	U		0.00104	0.00522	1	05/08/2021 06:43	WG1666286
4-Methyl-2-pentanone (MIBK)	U		0.000992	0.0104	1	05/08/2021 06:43	WG1666286
Methyl tert-butyl ether	U		0.000366	0.00104	1	05/08/2021 06:43	WG1666286
Styrene	U		0.000233	0.00104	1	05/08/2021 06:43	WG1666286
1,1,2,2-Tetrachloroethane	U	C3	0.000241	0.00104	1	05/08/2021 06:43	WG1666286
Tetrachloroethene	U		0.000339	0.00104	1	05/08/2021 06:43	WG1666286
Toluene	U		0.00128	0.00522	1	05/08/2021 06:43	WG1666286
1,2,3-Trichlorobenzene	U		0.000320	0.00104	1	05/08/2021 06:43	WG1666286
1,2,4-Trichlorobenzene	U		0.000405	0.00104	1	05/08/2021 06:43	WG1666286
1,1,1-Trichloroethane	U		0.000386	0.00104	1	05/08/2021 06:43	WG1666286
1,1,2-Trichloroethane	U		0.000444	0.00104	1	05/08/2021 06:43	WG1666286
Trichloroethene	U		0.000209	0.00104	1	05/08/2021 06:43	WG1666286
Trichlorofluoromethane	U		0.000372	0.00522	1	05/08/2021 06:43	WG1666286
1,1,2-Trichlorotrifluoroethane	U		0.000445	0.00104	1	05/08/2021 06:43	WG1666286
Vinyl chloride	U		0.000236	0.00104	1	05/08/2021 06:43	WG1666286
Xylenes, Total	U		0.000522	0.00313	1	05/08/2021 06:43	WG1666286
(S) Toluene-d8	*104*			*75.0-131*		*05/08/2021 06:43*	WG1666286
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*05/08/2021 06:43*	WG1666286
(S) 1,2-Dichloroethane-d4	*128*			*70.0-130*		*05/08/2021 06:43*	WG1666286

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	0.000		0.000	0.000	1	05/08/2021 06:43	WG1666286		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00619	0.0348	1	05/04/2021 23:22	WG1663447
Acenaphthene	U		0.00563	0.0348	1	05/04/2021 23:22	WG1663447
Acenaphthylene	U		0.00490	0.0348	1	05/04/2021 23:22	WG1663447
Benzo(a)anthracene	U		0.00613	0.0348	1	05/04/2021 23:22	WG1663447
Benzo(a)pyrene	U		0.00647	0.0348	1	05/04/2021 23:22	WG1663447
Benzo(b)fluoranthene	U		0.00649	0.0348	1	05/04/2021 23:22	WG1663447
Benzo(g,h,i)perylene	U		0.00636	0.0348	1	05/04/2021 23:22	WG1663447
Benzo(k)fluoranthene	U		0.00618	0.0348	1	05/04/2021 23:22	WG1663447

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	U		0.00691	0.0348	1	05/04/2021 23:22	WG1663447
Dibenz(a,h)anthracene	U		0.00964	0.0348	1	05/04/2021 23:22	WG1663447
Fluoranthene	U		0.00628	0.0348	1	05/04/2021 23:22	WG1663447
Fluorene	U		0.00566	0.0348	1	05/04/2021 23:22	WG1663447
Indeno(1,2,3-cd)pyrene	U		0.00983	0.0348	1	05/04/2021 23:22	WG1663447
Naphthalene	U		0.00873	0.0348	1	05/04/2021 23:22	WG1663447
Phenanthrene	U		0.00690	0.0348	1	05/04/2021 23:22	WG1663447
Pyrene	U		0.00677	0.0348	1	05/04/2021 23:22	WG1663447
(S) Nitrobenzene-d5	*90.7*			*31.0-146*		*05/04/2021 23:22*	WG1663447
(S) 2-Fluorobiphenyl	*97.7*			*31.0-130*		*05/04/2021 23:22*	WG1663447
(S) p-Terphenyl-d14	*128*	J1		*20.0-127*		*05/04/2021 23:22*	WG1663447

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.2		1	05/04/2021 13:40	WG1664020

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0187	0.0416	1	05/06/2021 13:24	WG1663631

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aluminum	2480		6.32	10.4	1	05/07/2021 08:54	WG1662844
Antimony	U		0.565	2.08	1	05/07/2021 08:54	WG1662844
Arsenic	1.20	J	0.538	2.08	1	05/07/2021 08:54	WG1662844
Barium	6.77		0.0885	0.520	1	05/07/2021 08:54	WG1662844
Beryllium	0.196	J	0.0327	0.208	1	05/07/2021 08:54	WG1662844
Cadmium	U		0.0490	0.520	1	05/07/2021 08:54	WG1662844
Calcium	87.6	J	11.0	104	1	05/07/2021 08:54	WG1662844
Chromium	6.19		0.138	1.04	1	05/07/2021 08:54	WG1662844
Cobalt	1.15		0.0843	1.04	1	05/07/2021 08:54	WG1662844
Copper	2.90		0.416	2.08	1	05/07/2021 08:54	WG1662844
Iron	4870		2.33	10.4	1	05/07/2021 08:54	WG1662844
Lead	1.95		0.216	0.520	1	05/07/2021 08:54	WG1662844
Magnesium	638		7.67	104	1	05/07/2021 08:54	WG1662844
Manganese	15.5		0.138	1.04	1	05/07/2021 08:54	WG1662844
Nickel	3.11		0.137	2.08	1	05/07/2021 08:54	WG1662844
Potassium	640		21.7	104	1	05/07/2021 08:54	WG1662844
Selenium	U		0.794	2.08	1	05/07/2021 08:54	WG1662844
Silver	U		0.132	1.04	1	05/07/2021 08:54	WG1662844
Sodium	59.7	J	42.8	104	1	05/07/2021 08:54	WG1662844
Thallium	U		0.409	2.08	1	05/07/2021 08:54	WG1662844
Vanadium	7.92		0.526	2.08	1	05/07/2021 08:54	WG1662844
Zinc	8.56		0.865	5.20	1	05/07/2021 08:54	WG1662844

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0215	0.0520	1	05/08/2021 07:05	WG1666286
Benzene	U		0.000390	0.00104	1	05/08/2021 07:05	WG1666286
Bromochloromethane	U		0.000348	0.00104	1	05/08/2021 07:05	WG1666286
Bromodichloromethane	U		0.000753	0.00104	1	05/08/2021 07:05	WG1666286
Bromoform	U		0.000441	0.00104	1	05/08/2021 07:05	WG1666286
Bromomethane	U		0.00122	0.00520	1	05/08/2021 07:05	WG1666286
Carbon disulfide	U		0.000728	0.00104	1	05/08/2021 07:05	WG1666286
Carbon tetrachloride	U		0.000258	0.00104	1	05/08/2021 07:05	WG1666286
Chlorobenzene	U		0.000200	0.00104	1	05/08/2021 07:05	WG1666286
Chlorodibromomethane	U		0.000233	0.00104	1	05/08/2021 07:05	WG1666286
Chloroethane	U		0.00104	0.00520	1	05/08/2021 07:05	WG1666286
Chloroform	U		0.00107	0.00520	1	05/08/2021 07:05	WG1666286
Chloromethane	U		0.000676	0.00260	1	05/08/2021 07:05	WG1666286
Cyclohexane	U		0.000279	0.00104	1	05/08/2021 07:05	WG1666286
1,2-Dibromo-3-Chloropropane	U		0.00197	0.00520	1	05/08/2021 07:05	WG1666286
1,2-Dibromoethane	U		0.000260	0.00104	1	05/08/2021 07:05	WG1666286
Dichlorodifluoromethane	U		0.000298	0.00520	1	05/08/2021 07:05	WG1666286
1,1-Dichloroethane	U		0.000279	0.00104	1	05/08/2021 07:05	WG1666286

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000468	0.00104	1	05/08/2021 07:05	WG1666286
1,2-Dichlorobenzene	U		0.000442	0.00104	1	05/08/2021 07:05	WG1666286
1,3-Dichlorobenzene	U		0.000624	0.00104	1	05/08/2021 07:05	WG1666286
1,4-Dichlorobenzene	U		0.000863	0.00104	1	05/08/2021 07:05	WG1666286
1,1-Dichloroethene	U		0.000369	0.00104	1	05/08/2021 07:05	WG1666286
cis-1,2-Dichloroethene	U		0.000494	0.00104	1	05/08/2021 07:05	WG1666286
trans-1,2-Dichloroethene	U		0.000520	0.00104	1	05/08/2021 07:05	WG1666286
1,2-Dichloropropane	U		0.000170	0.00104	1	05/08/2021 07:05	WG1666286
cis-1,3-Dichloropropene	U		0.000442	0.00104	1	05/08/2021 07:05	WG1666286
trans-1,3-Dichloropropene	U		0.000702	0.00104	1	05/08/2021 07:05	WG1666286
Ethylbenzene	U		0.000312	0.00104	1	05/08/2021 07:05	WG1666286
2-Hexanone	U		0.00186	0.0104	1	05/08/2021 07:05	WG1666286
Isopropylbenzene	U		0.000442	0.00104	1	05/08/2021 07:05	WG1666286
2-Butanone (MEK)	U		0.00486	0.0104	1	05/08/2021 07:05	WG1666286
Methyl Acetate	U		0.00312	0.0208	1	05/08/2021 07:05	WG1666286
Methyl Cyclohexane	U		0.000805	0.00104	1	05/08/2021 07:05	WG1666286
Methylene Chloride	U		0.00104	0.00520	1	05/08/2021 07:05	WG1666286
4-Methyl-2-pentanone (MIBK)	U		0.000987	0.0104	1	05/08/2021 07:05	WG1666286
Methyl tert-butyl ether	U		0.000364	0.00104	1	05/08/2021 07:05	WG1666286
Styrene	U		0.000232	0.00104	1	05/08/2021 07:05	WG1666286
1,1,2,2-Tetrachloroethane	U	C3	0.000240	0.00104	1	05/08/2021 07:05	WG1666286
Tetrachloroethene	U		0.000338	0.00104	1	05/08/2021 07:05	WG1666286
Toluene	U		0.00128	0.00520	1	05/08/2021 07:05	WG1666286
1,2,3-Trichlorobenzene	U		0.000318	0.00104	1	05/08/2021 07:05	WG1666286
1,2,4-Trichlorobenzene	U		0.000403	0.00104	1	05/08/2021 07:05	WG1666286
1,1,1-Trichloroethane	U		0.000385	0.00104	1	05/08/2021 07:05	WG1666286
1,1,2-Trichloroethane	U		0.000442	0.00104	1	05/08/2021 07:05	WG1666286
Trichloroethene	U		0.000208	0.00104	1	05/08/2021 07:05	WG1666286
Trichlorofluoromethane	U		0.000370	0.00520	1	05/08/2021 07:05	WG1666286
1,1,2-Trichlorotrifluoroethane	U		0.000443	0.00104	1	05/08/2021 07:05	WG1666286
Vinyl chloride	U		0.000235	0.00104	1	05/08/2021 07:05	WG1666286
Xylenes, Total	U		0.000520	0.00312	1	05/08/2021 07:05	WG1666286
(S) Toluene-d8	*102*			*75.0-131*		*05/08/2021 07:05*	WG1666286
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*05/08/2021 07:05*	WG1666286
(S) 1,2-Dichloroethane-d4	*127*			*70.0-130*		*05/08/2021 07:05*	WG1666286

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	0.000		0.000	0.000	1	05/08/2021 07:05	WG1666286		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00616	0.0346	1	05/04/2021 23:42	WG1663447
Acenaphthene	U		0.00560	0.0346	1	05/04/2021 23:42	WG1663447
Acenaphthylene	U		0.00487	0.0346	1	05/04/2021 23:42	WG1663447
Benzo(a)anthracene	U		0.00610	0.0346	1	05/04/2021 23:42	WG1663447
Benzo(a)pyrene	U		0.00643	0.0346	1	05/04/2021 23:42	WG1663447
Benzo(b)fluoranthene	U		0.00645	0.0346	1	05/04/2021 23:42	WG1663447
Benzo(g,h,i)perylene	U		0.00633	0.0346	1	05/04/2021 23:42	WG1663447
Benzo(k)fluoranthene	U		0.00615	0.0346	1	05/04/2021 23:42	WG1663447

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	U		0.00688	0.0346	1	05/04/2021 23:42	WG1663447
Dibenz(a,h)anthracene	U		0.00959	0.0346	1	05/04/2021 23:42	WG1663447
Fluoranthene	U		0.00625	0.0346	1	05/04/2021 23:42	WG1663447
Fluorene	U		0.00563	0.0346	1	05/04/2021 23:42	WG1663447
Indeno(1,2,3-cd)pyrene	U		0.00978	0.0346	1	05/04/2021 23:42	WG1663447
Naphthalene	U		0.00869	0.0346	1	05/04/2021 23:42	WG1663447
Phenanthrene	U		0.00687	0.0346	1	05/04/2021 23:42	WG1663447
Pyrene	U		0.00673	0.0346	1	05/04/2021 23:42	WG1663447
(S) Nitrobenzene-d5	*94.3*			*31.0-146*		*05/04/2021 23:42*	WG1663447
(S) 2-Fluorobiphenyl	*101*			*31.0-130*		*05/04/2021 23:42*	WG1663447
(S) p-Terphenyl-d14	*133*	J1		*20.0-127*		*05/04/2021 23:42*	WG1663447

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.1		1	05/04/2021 15:05	WG1664024

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.359		0.0196	0.0435	1	05/06/2021 13:26	WG1663631

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aluminum	7380		6.60	10.9	1	05/07/2021 00:57	WG1662840
Antimony	U		0.591	2.17	1	05/07/2021 00:57	WG1662840
Arsenic	9.09		0.563	2.17	1	05/07/2021 00:57	WG1662840
Barium	63.6		0.0926	0.543	1	05/07/2021 00:57	WG1662840
Beryllium	0.394		0.0342	0.217	1	05/07/2021 00:57	WG1662840
Cadmium	0.236	J	0.0512	0.543	1	05/07/2021 00:57	WG1662840
Calcium	25600		11.5	109	1	05/07/2021 00:57	WG1662840
Chromium	15.6		0.144	1.09	1	05/07/2021 00:57	WG1662840
Cobalt	5.19		0.0881	1.09	1	05/07/2021 00:57	WG1662840
Copper	20.4		0.435	2.17	1	05/07/2021 00:57	WG1662840
Iron	11600		2.43	10.9	1	05/07/2021 00:57	WG1662840
Lead	63.7		0.226	0.543	1	05/07/2021 00:57	WG1662840
Magnesium	7860		8.02	109	1	05/07/2021 00:57	WG1662840
Manganese	150		0.144	1.09	1	05/07/2021 00:57	WG1662840
Nickel	9.27		0.143	2.17	1	05/07/2021 00:57	WG1662840
Potassium	1590		22.7	109	1	05/07/2021 00:57	WG1662840
Selenium	U		0.830	2.17	1	05/07/2021 00:57	WG1662840
Silver	U		0.138	1.09	1	05/07/2021 00:57	WG1662840
Sodium	573		44.8	109	1	05/07/2021 10:18	WG1662840
Thallium	U		0.428	2.17	1	05/07/2021 00:57	WG1662840
Vanadium	27.5		0.550	2.17	1	05/07/2021 00:57	WG1662840
Zinc	99.5		0.904	5.43	1	05/07/2021 00:57	WG1662840

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.206		0.00644	0.0362	1	05/05/2021 04:28	WG1663447
Acenaphthene	0.0645		0.00586	0.0362	1	05/05/2021 04:28	WG1663447
Acenaphthylene	0.0751		0.00509	0.0362	1	05/05/2021 04:28	WG1663447
Benzo(a)anthracene	1.35		0.00638	0.0362	1	05/05/2021 04:28	WG1663447
Benzo(a)pyrene	1.35		0.00672	0.0362	1	05/05/2021 04:28	WG1663447
Benzo(b)fluoranthene	1.64		0.00675	0.0362	1	05/05/2021 04:28	WG1663447
Benzo(g,h,i)perylene	0.953		0.00662	0.0362	1	05/05/2021 04:28	WG1663447
Benzo(k)fluoranthene	0.566		0.00643	0.0362	1	05/05/2021 04:28	WG1663447
Chrysene	1.26		0.00719	0.0362	1	05/05/2021 04:28	WG1663447
Dibenz(a,h)anthracene	0.205		0.0100	0.0362	1	05/05/2021 04:28	WG1663447
Fluoranthene	2.43		0.00653	0.0362	1	05/05/2021 04:28	WG1663447
Fluorene	0.0593		0.00589	0.0362	1	05/05/2021 04:28	WG1663447
Indeno(1,2,3-cd)pyrene	1.21		0.0102	0.0362	1	05/05/2021 04:28	WG1663447
Naphthalene	0.0376		0.00908	0.0362	1	05/05/2021 04:28	WG1663447
Phenanthrene	1.03		0.00718	0.0362	1	05/05/2021 04:28	WG1663447
Pyrene	1.91		0.00704	0.0362	1	05/05/2021 04:28	WG1663447
(S) Nitrobenzene-d5	*90.8*			*31.0-146*		*05/05/2021 04:28*	WG1663447
(S) 2-Fluorobiphenyl	*85.1*			*31.0-130*		*05/05/2021 04:28*	WG1663447

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) p-Terphenyl-d14	*91.4*			*20.0-127*		*05/05/2021 04:28*	WG1663447

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.7		1	05/04/2021 15:05	WG1664024

Wet Chemistry by Method 9012B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cyanide	U		0.0836	0.285	1	05/11/2021 19:27	WG1668185

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0205	0.0456	1	05/06/2021 13:29	WG1663631

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aluminum	13400		6.94	11.4	1	05/07/2021 01:00	WG1662840
Antimony	U		0.621	2.28	1	05/07/2021 01:00	WG1662840
Arsenic	7.64		0.591	2.28	1	05/07/2021 01:00	WG1662840
Barium	29.5		0.0972	0.570	1	05/07/2021 01:00	WG1662840
Beryllium	0.715		0.0359	0.228	1	05/07/2021 01:00	WG1662840
Cadmium	0.0715	J	0.0537	0.570	1	05/07/2021 01:00	WG1662840
Calcium	971		12.1	114	1	05/07/2021 01:00	WG1662840
Chromium	28.4		0.152	1.14	1	05/07/2021 01:00	WG1662840
Cobalt	5.15		0.0925	1.14	1	05/07/2021 01:00	WG1662840
Copper	6.63		0.456	2.28	1	05/07/2021 01:00	WG1662840
Iron	23600		2.56	11.4	1	05/07/2021 01:00	WG1662840
Lead	8.41		0.237	0.570	1	05/07/2021 01:00	WG1662840
Magnesium	2040		8.42	114	1	05/07/2021 01:00	WG1662840
Manganese	91.8		0.152	1.14	1	05/07/2021 01:00	WG1662840
Nickel	10.2		0.151	2.28	1	05/07/2021 01:00	WG1662840
Potassium	2410		23.8	114	1	05/07/2021 01:00	WG1662840
Selenium	1.13	J	0.872	2.28	1	05/07/2021 01:00	WG1662840
Silver	U		0.145	1.14	1	05/07/2021 01:00	WG1662840
Sodium	125	B	47.0	114	1	05/07/2021 10:21	WG1662840
Thallium	U		0.449	2.28	1	05/07/2021 01:00	WG1662840
Vanadium	33.3		0.577	2.28	1	05/07/2021 01:00	WG1662840
Zinc	34.5		0.949	5.70	1	05/07/2021 01:00	WG1662840

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0314	J	0.0236	0.0570	1	05/08/2021 07:26	WG1666286
Benzene	U		0.000428	0.00114	1	05/08/2021 07:26	WG1666286
Bromochloromethane	U		0.000382	0.00114	1	05/08/2021 07:26	WG1666286
Bromodichloromethane	U		0.000827	0.00114	1	05/08/2021 07:26	WG1666286
Bromoform	U		0.000484	0.00114	1	05/08/2021 07:26	WG1666286
Bromomethane	U		0.00133	0.00570	1	05/08/2021 07:26	WG1666286
Carbon disulfide	U		0.000799	0.00114	1	05/08/2021 07:26	WG1666286
Carbon tetrachloride	U		0.000283	0.00114	1	05/08/2021 07:26	WG1666286
Chlorobenzene	U		0.000219	0.00114	1	05/08/2021 07:26	WG1666286
Chlorodibromomethane	U		0.000256	0.00114	1	05/08/2021 07:26	WG1666286
Chloroethane	U		0.00114	0.00570	1	05/08/2021 07:26	WG1666286
Chloroform	U		0.00117	0.00570	1	05/08/2021 07:26	WG1666286
Chloromethane	U		0.000741	0.00285	1	05/08/2021 07:26	WG1666286

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyclohexane	0.000764	J	0.000306	0.00114	1	05/08/2021 07:26	WG1666286
1,2-Dibromo-3-Chloropropane	U		0.00217	0.00570	1	05/08/2021 07:26	WG1666286
1,2-Dibromoethane	U		0.000285	0.00114	1	05/08/2021 07:26	WG1666286
Dichlorodifluoromethane	U		0.000327	0.00570	1	05/08/2021 07:26	WG1666286
1,1-Dichloroethane	U		0.000306	0.00114	1	05/08/2021 07:26	WG1666286
1,2-Dichloroethane	U		0.000513	0.00114	1	05/08/2021 07:26	WG1666286
1,2-Dichlorobenzene	U		0.000485	0.00114	1	05/08/2021 07:26	WG1666286
1,3-Dichlorobenzene	U		0.000684	0.00114	1	05/08/2021 07:26	WG1666286
1,4-Dichlorobenzene	U		0.000947	0.00114	1	05/08/2021 07:26	WG1666286
1,1-Dichloroethene	U		0.000405	0.00114	1	05/08/2021 07:26	WG1666286
cis-1,2-Dichloroethene	U		0.000542	0.00114	1	05/08/2021 07:26	WG1666286
trans-1,2-Dichloroethene	U		0.000570	0.00114	1	05/08/2021 07:26	WG1666286
1,2-Dichloropropane	U		0.000187	0.00114	1	05/08/2021 07:26	WG1666286
cis-1,3-Dichloropropene	U		0.000485	0.00114	1	05/08/2021 07:26	WG1666286
trans-1,3-Dichloropropene	U		0.000770	0.00114	1	05/08/2021 07:26	WG1666286
Ethylbenzene	U		0.000342	0.00114	1	05/08/2021 07:26	WG1666286
2-Hexanone	U		0.00204	0.0114	1	05/08/2021 07:26	WG1666286
Isopropylbenzene	U		0.000485	0.00114	1	05/08/2021 07:26	WG1666286
2-Butanone (MEK)	U		0.00534	0.0114	1	05/08/2021 07:26	WG1666286
Methyl Acetate	U		0.00342	0.0228	1	05/08/2021 07:26	WG1666286
Methyl Cyclohexane	0.00155		0.000884	0.00114	1	05/08/2021 07:26	WG1666286
Methylene Chloride	U		0.00114	0.00570	1	05/08/2021 07:26	WG1666286
4-Methyl-2-pentanone (MIBK)	U		0.00108	0.0114	1	05/08/2021 07:26	WG1666286
Methyl tert-butyl ether	U		0.000399	0.00114	1	05/08/2021 07:26	WG1666286
Styrene	U		0.000254	0.00114	1	05/08/2021 07:26	WG1666286
1,1,2,2-Tetrachloroethane	U	C3	0.000264	0.00114	1	05/08/2021 07:26	WG1666286
Tetrachloroethene	U		0.000371	0.00114	1	05/08/2021 07:26	WG1666286
Toluene	U		0.00140	0.00570	1	05/08/2021 07:26	WG1666286
1,2,3-Trichlorobenzene	U		0.000349	0.00114	1	05/08/2021 07:26	WG1666286
1,2,4-Trichlorobenzene	U		0.000443	0.00114	1	05/08/2021 07:26	WG1666286
1,1,1-Trichloroethane	U		0.000422	0.00114	1	05/08/2021 07:26	WG1666286
1,1,2-Trichloroethane	U		0.000485	0.00114	1	05/08/2021 07:26	WG1666286
Trichloroethene	U		0.000228	0.00114	1	05/08/2021 07:26	WG1666286
Trichlorofluoromethane	U		0.000406	0.00570	1	05/08/2021 07:26	WG1666286
1,1,2-Trichlorotrifluoroethane	U		0.000486	0.00114	1	05/08/2021 07:26	WG1666286
Vinyl chloride	U		0.000258	0.00114	1	05/08/2021 07:26	WG1666286
Xylenes, Total	U		0.000570	0.00342	1	05/08/2021 07:26	WG1666286
(S) Toluene-d8	*112*			*75.0-131*		*05/08/2021 07:26*	WG1666286
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*05/08/2021 07:26*	WG1666286
(S) 1,2-Dichloroethane-d4	*129*			*70.0-130*		*05/08/2021 07:26*	WG1666286

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	0.0236	J N	0.000	0.000	1	05/08/2021 07:26	WG1666286		
.Alpha.-Pinene	0.0148	J N	0.000	0.000	1	05/08/2021 07:26	WG1666286	000080-56-8	6.93
Camphene	0.00512	J N	0.000	0.000	1	05/08/2021 07:26	WG1666286	000079-92-5	7.20
Bicyclo[2.2.1]Heptane, 7,7-Dimethy	0.00363	J N	0.000	0.000	1	05/08/2021 07:26	WG1666286	000471-84-1	7.16

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00429	0.0228	1	05/06/2021 15:13	WG1663467
Alpha BHC	U		0.00420	0.0228	1	05/06/2021 15:13	WG1663467
Beta BHC	U		0.00432	0.0228	1	05/06/2021 15:13	WG1663467
Delta BHC	U		0.00395	0.0228	1	05/06/2021 15:13	WG1663467
Gamma BHC	U		0.00392	0.0228	1	05/06/2021 15:13	WG1663467
Chlordane	U		0.117	0.342	1	05/06/2021 15:13	WG1663467
4,4-DDD	U		0.00422	0.0228	1	05/06/2021 15:13	WG1663467
4,4-DDE	U		0.00418	0.0228	1	05/06/2021 15:13	WG1663467
4,4-DDT	U		0.00715	0.0228	1	05/06/2021 15:13	WG1663467
Dieldrin	U		0.00392	0.0228	1	05/06/2021 15:13	WG1663467
Endosulfan I	U		0.00414	0.0228	1	05/06/2021 15:13	WG1663467
Endosulfan II	U		0.00382	0.0228	1	05/06/2021 15:13	WG1663467
Endosulfan sulfate	U		0.00415	0.0228	1	05/06/2021 15:13	WG1663467
Endrin	U		0.00399	0.0228	1	05/06/2021 15:13	WG1663467
Endrin aldehyde	U		0.00387	0.0228	1	05/06/2021 15:13	WG1663467
Endrin ketone	U		0.00811	0.0228	1	05/06/2021 15:13	WG1663467
Hexachlorobenzene	U		0.00395	0.0228	1	05/06/2021 15:13	WG1663467
Heptachlor	U		0.00488	0.0228	1	05/06/2021 15:13	WG1663467
Heptachlor epoxide	U		0.00387	0.0228	1	05/06/2021 15:13	WG1663467
Methoxychlor	U		0.00552	0.0228	1	05/06/2021 15:13	WG1663467
Toxaphene	U		0.141	0.456	1	05/06/2021 15:13	WG1663467
(S) Decachlorobiphenyl	*81.9*			*30.0-150*		*05/06/2021 15:13*	WG1663467
(S) Tetrachloro-m-xylene	*89.1*			*30.0-150*		*05/06/2021 15:13*	WG1663467

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0135	0.0388	1	05/05/2021 17:54	WG1663467
PCB 1221	U		0.0135	0.0388	1	05/05/2021 17:54	WG1663467
PCB 1232	U		0.0135	0.0388	1	05/05/2021 17:54	WG1663467
PCB 1242	U		0.0135	0.0388	1	05/05/2021 17:54	WG1663467
PCB 1248	U		0.00842	0.0194	1	05/05/2021 17:54	WG1663467
PCB 1254	U		0.00842	0.0194	1	05/05/2021 17:54	WG1663467
PCB 1260	U		0.00842	0.0194	1	05/05/2021 17:54	WG1663467
Total PCBs	U		0.00842	0.0194	1	05/05/2021 17:54	WG1663467
(S) Decachlorobiphenyl	*91.4*			*30.0-150*		*05/05/2021 17:54*	WG1663467
(S) Tetrachloro-m-xylene	*88.5*			*30.0-150*		*05/05/2021 17:54*	WG1663467

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	0.0278	J J4	0.0123	0.0760	2	05/08/2021 21:14	WG1666711
Acenaphthylene	0.0125	J J4	0.0107	0.0760	2	05/08/2021 21:14	WG1666711
Acetophenone	U	J4	0.0237	0.760	2	05/08/2021 21:14	WG1666711
Anthracene	0.0513	J J4	0.0136	0.0760	2	05/08/2021 21:14	WG1666711
Atrazine	U		0.0262	0.760	2	05/08/2021 21:14	WG1666711
Benzaldehyde	U		0.0404	0.760	2	05/08/2021 21:14	WG1666711
Benzo(a)anthracene	0.203	J4	0.0133	0.0760	2	05/08/2021 21:14	WG1666711
Benzo(b)fluoranthene	0.244	J4	0.0141	0.0760	2	05/08/2021 21:14	WG1666711
Benzo(k)fluoranthene	0.0791	J4	0.0135	0.0760	2	05/08/2021 21:14	WG1666711
Benzo(g,h,i)perylene	0.0849	J4	0.0139	0.0760	2	05/08/2021 21:14	WG1666711
Benzo(a)pyrene	0.173	J4	0.0141	0.0760	2	05/08/2021 21:14	WG1666711
Biphenyl	U	J4	0.0242	0.760	2	05/08/2021 21:14	WG1666711
Bis(2-chlorethoxy)methane	U	J4	0.0228	0.760	2	05/08/2021 21:14	WG1666711
Bis(2-chloroethyl)ether	U	J4	0.0251	0.760	2	05/08/2021 21:14	WG1666711

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,2-Oxybis(1-Chloropropane)	U	J4	0.0329	0.760	2	05/08/2021 21:14	WG1666711
4-Bromophenyl-phenylether	U	J4	0.0267	0.760	2	05/08/2021 21:14	WG1666711
Caprolactam	U		0.0376	0.760	2	05/08/2021 21:14	WG1666711
Carbazole	0.0275	J J4	0.0235	0.760	2	05/08/2021 21:14	WG1666711
4-Chloroaniline	U	J4	0.0274	0.760	2	05/08/2021 21:14	WG1666711
2-Chloronaphthalene	U	J4	0.0133	0.0760	2	05/08/2021 21:14	WG1666711
4-Chlorophenyl-phenylether	U	J4	0.0265	0.760	2	05/08/2021 21:14	WG1666711
Chrysene	0.218	J4	0.0151	0.0760	2	05/08/2021 21:14	WG1666711
Dibenz(a,h)anthracene	0.0275	J J4	0.0211	0.0760	2	05/08/2021 21:14	WG1666711
Dibenzofuran	U	J4	0.0249	0.760	2	05/08/2021 21:14	WG1666711
3,3-Dichlorobenzidine	U	J4	0.0281	0.760	2	05/08/2021 21:14	WG1666711
2,4-Dinitrotoluene	U		0.0218	0.760	2	05/08/2021 21:14	WG1666711
2,6-Dinitrotoluene	U	J4	0.0249	0.760	2	05/08/2021 21:14	WG1666711
Fluoranthene	0.388	J4	0.0137	0.0760	2	05/08/2021 21:14	WG1666711
Fluorene	0.0265	J J4	0.0123	0.0760	2	05/08/2021 21:14	WG1666711
Hexachlorobenzene	U	J4	0.0269	0.760	2	05/08/2021 21:14	WG1666711
Hexachloro-1,3-butadiene	U	J4	0.0256	0.760	2	05/08/2021 21:14	WG1666711
Hexachlorocyclopentadiene	U		0.0399	0.760	2	05/08/2021 21:14	WG1666711
Hexachloroethane	U		0.0299	0.760	2	05/08/2021 21:14	WG1666711
Indeno(1,2,3-cd)pyrene	0.0950	J4	0.0214	0.0760	2	05/08/2021 21:14	WG1666711
Isophorone	U	J4	0.0233	0.760	2	05/08/2021 21:14	WG1666711
2-Methylnaphthalene	0.0308	J J4	0.00986	0.0760	2	05/08/2021 21:14	WG1666711
Naphthalene	0.0226	J J4	0.0191	0.0760	2	05/08/2021 21:14	WG1666711
2-Nitroaniline	U	J4	0.0244	0.760	2	05/08/2021 21:14	WG1666711
3-Nitroaniline	U	J4	0.0242	0.760	2	05/08/2021 21:14	WG1666711
4-Nitroaniline	U		0.0221	0.760	2	05/08/2021 21:14	WG1666711
Nitrobenzene	U	J4	0.0265	0.760	2	05/08/2021 21:14	WG1666711
n-Nitrosodiphenylamine	U		0.0575	0.760	2	05/08/2021 21:14	WG1666711
n-Nitrosodi-n-propylamine	U	J4	0.0253	0.760	2	05/08/2021 21:14	WG1666711
Phenanthrene	0.316	J4	0.0151	0.0760	2	05/08/2021 21:14	WG1666711
Benzylbutyl phthalate	U	J4	0.0237	0.760	2	05/08/2021 21:14	WG1666711
Bis(2-ethylhexyl)phthalate	U	J4	0.0963	0.760	2	05/08/2021 21:14	WG1666711
Di-n-butyl phthalate	U	J4	0.0260	0.760	2	05/08/2021 21:14	WG1666711
Diethyl phthalate	U	J4	0.0251	0.760	2	05/08/2021 21:14	WG1666711
Dimethyl phthalate	U	J4	0.161	0.760	2	05/08/2021 21:14	WG1666711
Di-n-octyl phthalate	U	J4	0.0513	0.760	2	05/08/2021 21:14	WG1666711
Pyrene	0.321	J4	0.0148	0.0760	2	05/08/2021 21:14	WG1666711
1,2,4,5-Tetrachlorobenzene	U		0.0363	0.760	2	05/08/2021 21:14	WG1666711
4-Chloro-3-methylphenol	U	J4	0.0246	0.760	2	05/08/2021 21:14	WG1666711
2-Chlorophenol	U	J4	0.0251	0.760	2	05/08/2021 21:14	WG1666711
2-Methylphenol	U	J4	0.0228	0.760	2	05/08/2021 21:14	WG1666711
3&4-Methyl Phenol	U		0.0237	0.760	2	05/08/2021 21:14	WG1666711
2,4-Dichlorophenol	U	J4	0.0221	0.760	2	05/08/2021 21:14	WG1666711
2,4-Dimethylphenol	U	J4	0.0198	0.760	2	05/08/2021 21:14	WG1666711
4,6-Dinitro-2-methylphenol	U	J4	0.172	0.760	2	05/08/2021 21:14	WG1666711
2,4-Dinitrophenol	U		0.178	0.760	2	05/08/2021 21:14	WG1666711
2-Nitrophenol	U	J4	0.0272	0.760	2	05/08/2021 21:14	WG1666711
4-Nitrophenol	U		0.0237	0.760	2	05/08/2021 21:14	WG1666711
Pentachlorophenol	U		0.0204	0.760	2	05/08/2021 21:14	WG1666711
Phenol	U		0.0306	0.760	2	05/08/2021 21:14	WG1666711
2,4,5-Trichlorophenol	U	J4	0.0258	0.760	2	05/08/2021 21:14	WG1666711
2,4,6-Trichlorophenol	U	J4	0.0244	0.760	2	05/08/2021 21:14	WG1666711
(S) 2-Fluorophenol	*69.1*			*30.0-130*		*05/08/2021 21:14*	WG1666711
(S) Phenol-d5	*66.9*			*30.0-130*		*05/08/2021 21:14*	WG1666711
(S) Nitrobenzene-d5	*57.9*			*30.0-130*		*05/08/2021 21:14*	WG1666711
(S) 2-Fluorobiphenyl	*76.2*			*30.0-130*		*05/08/2021 21:14*	WG1666711

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2,4,6-Tribromophenol	*90.1*			*30.0-130*		*05/08/2021 21:14*	WG1666711
(S) p-Terphenyl-d14	*73.2*			*30.0-130*		*05/08/2021 21:14*	WG1666711

Semi Volatile Organic Compounds (GC/MS) by Method 8270C/8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	3.64	J N	0.000	0.000	2	05/08/2021 21:14	WG1666711		
.Alpha.-Pinene	1.87	J N	0.000	0.000	2	05/08/2021 21:14	WG1666711	000080-56-8	2.65
Unknown-02	0.284	J N	0.000	0.000	2	05/08/2021 21:14	WG1666711	000123-42-2	2.21
Unknown-05	0.242	J N	0.000	0.000	2	05/08/2021 21:14	WG1666711	000000-00-0	7.62
Unknown-03	0.235	J N	0.000	0.000	2	05/08/2021 21:14	WG1666711	000565-61-7	2.85
Unknown-06	0.191	J N	0.000	0.000	2	05/08/2021 21:14	WG1666711	021898-95-3	9.35
2-Phenylnaphthalene	0.133	J N	0.000	0.000	2	05/08/2021 21:14	WG1666711	035465-71-5	6.56
Anthracene, 2-Methyl-	0.129	J N	0.000	0.000	2	05/08/2021 21:14	WG1666711	000613-12-7	6.35
Unknown-04	0.125	J N	0.000	0.000	2	05/08/2021 21:14	WG1666711	000086-20-4	7.36
Phenanthrene, 4-Methyl-	0.0926	J N	0.000	0.000	2	05/08/2021 21:14	WG1666711	000832-64-4	6.33
D-Limonene	0.0925	J N	0.000	0.000	2	05/08/2021 21:14	WG1666711	005989-27-5	3.06
Phenanthrene, 1-Methyl-	0.0880	J N	0.000	0.000	2	05/08/2021 21:14	WG1666711	000832-69-9	6.41
Unknown-01	0.0794	J N	0.000	0.000	2	05/08/2021 21:14	WG1666711	000870-63-3	2
Unknown-07	0.0780	J N	0.000	0.000	2	05/08/2021 21:14	WG1666711	027554-26-3	9.64

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.5		1	05/04/2021 15:05	WG1664024

Wet Chemistry by Method 9012B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cyanide	U		0.0857	0.292	1	05/11/2021 19:28	WG1668185

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.396		0.0210	0.0468	1	05/06/2021 13:37	WG1663631

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aluminum	5500		7.11	11.7	1	05/07/2021 01:03	WG1662840
Antimony	U		0.636	2.34	1	05/07/2021 01:03	WG1662840
Arsenic	1.82	J	0.606	2.34	1	05/07/2021 01:03	WG1662840
Barium	37.2		0.0996	0.584	1	05/07/2021 01:03	WG1662840
Beryllium	0.321		0.0368	0.234	1	05/07/2021 01:03	WG1662840
Cadmium	U		0.0551	0.584	1	05/07/2021 01:03	WG1662840
Calcium	3110		12.4	117	1	05/07/2021 01:03	WG1662840
Chromium	11.0		0.155	1.17	1	05/07/2021 01:03	WG1662840
Cobalt	1.56		0.0948	1.17	1	05/07/2021 01:03	WG1662840
Copper	4.91		0.468	2.34	1	05/07/2021 01:03	WG1662840
Iron	6820		2.62	11.7	1	05/07/2021 01:03	WG1662840
Lead	15.5		0.243	0.584	1	05/07/2021 01:03	WG1662840
Magnesium	1940		8.63	117	1	05/07/2021 01:03	WG1662840
Manganese	59.2		0.155	1.17	1	05/07/2021 01:03	WG1662840
Nickel	4.24		0.154	2.34	1	05/07/2021 01:03	WG1662840
Potassium	868		24.4	117	1	05/07/2021 01:03	WG1662840
Selenium	U		0.893	2.34	1	05/07/2021 01:03	WG1662840
Silver	U		0.148	1.17	1	05/07/2021 01:03	WG1662840
Sodium	113	B J	48.2	117	1	05/07/2021 10:23	WG1662840
Thallium	U		0.461	2.34	1	05/07/2021 01:03	WG1662840
Vanadium	13.0		0.592	2.34	1	05/07/2021 01:03	WG1662840
Zinc	17.1		0.973	5.84	1	05/07/2021 01:03	WG1662840

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0242	0.0584	1	05/08/2021 13:57	WG1666768
Benzene	U		0.000438	0.00117	1	05/08/2021 13:57	WG1666768
Bromochloromethane	U		0.000392	0.00117	1	05/08/2021 13:57	WG1666768
Bromodichloromethane	U		0.000848	0.00117	1	05/08/2021 13:57	WG1666768
Bromoform	U		0.000496	0.00117	1	05/08/2021 13:57	WG1666768
Bromomethane	U		0.00137	0.00584	1	05/08/2021 13:57	WG1666768
Carbon disulfide	U		0.000818	0.00117	1	05/08/2021 13:57	WG1666768
Carbon tetrachloride	U		0.000290	0.00117	1	05/08/2021 13:57	WG1666768
Chlorobenzene	U		0.000224	0.00117	1	05/08/2021 13:57	WG1666768
Chlorodibromomethane	U		0.000262	0.00117	1	05/08/2021 13:57	WG1666768
Chloroethane	U		0.00117	0.00584	1	05/08/2021 13:57	WG1666768
Chloroform	U		0.00120	0.00584	1	05/08/2021 13:57	WG1666768
Chloromethane	U		0.000760	0.00292	1	05/08/2021 13:57	WG1666768

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyclohexane	U		0.000313	0.00117	1	05/08/2021 13:57	WG1666768
1,2-Dibromo-3-Chloropropane	U		0.00222	0.00584	1	05/08/2021 13:57	WG1666768
1,2-Dibromoethane	U		0.000292	0.00117	1	05/08/2021 13:57	WG1666768
Dichlorodifluoromethane	U		0.000335	0.00584	1	05/08/2021 13:57	WG1666768
1,1-Dichloroethane	U		0.000313	0.00117	1	05/08/2021 13:57	WG1666768
1,2-Dichloroethane	U		0.000526	0.00117	1	05/08/2021 13:57	WG1666768
1,2-Dichlorobenzene	U		0.000497	0.00117	1	05/08/2021 13:57	WG1666768
1,3-Dichlorobenzene	U		0.000701	0.00117	1	05/08/2021 13:57	WG1666768
1,4-Dichlorobenzene	U		0.000970	0.00117	1	05/08/2021 13:57	WG1666768
1,1-Dichloroethene	U		0.000415	0.00117	1	05/08/2021 13:57	WG1666768
cis-1,2-Dichloroethene	U		0.000555	0.00117	1	05/08/2021 13:57	WG1666768
trans-1,2-Dichloroethene	U		0.000584	0.00117	1	05/08/2021 13:57	WG1666768
1,2-Dichloropropane	U		0.000192	0.00117	1	05/08/2021 13:57	WG1666768
cis-1,3-Dichloropropene	U		0.000497	0.00117	1	05/08/2021 13:57	WG1666768
trans-1,3-Dichloropropene	U		0.000789	0.00117	1	05/08/2021 13:57	WG1666768
Ethylbenzene	U		0.000351	0.00117	1	05/08/2021 13:57	WG1666768
2-Hexanone	U		0.00209	0.0117	1	05/08/2021 13:57	WG1666768
Isopropylbenzene	U		0.000497	0.00117	1	05/08/2021 13:57	WG1666768
2-Butanone (MEK)	U		0.00547	0.0117	1	05/08/2021 13:57	WG1666768
Methyl Acetate	U		0.00351	0.0234	1	05/08/2021 13:57	WG1666768
Methyl Cyclohexane	U		0.000906	0.00117	1	05/08/2021 13:57	WG1666768
Methylene Chloride	U		0.00117	0.00584	1	05/08/2021 13:57	WG1666768
4-Methyl-2-pentanone (MIBK)	U		0.00111	0.0117	1	05/08/2021 13:57	WG1666768
Methyl tert-butyl ether	U		0.000409	0.00117	1	05/08/2021 13:57	WG1666768
Styrene	U		0.000261	0.00117	1	05/08/2021 13:57	WG1666768
1,1,2,2-Tetrachloroethane	U		0.000270	0.00117	1	05/08/2021 13:57	WG1666768
Tetrachloroethene	U		0.000380	0.00117	1	05/08/2021 13:57	WG1666768
Toluene	U		0.00144	0.00584	1	05/08/2021 13:57	WG1666768
1,2,3-Trichlorobenzene	U		0.000358	0.00117	1	05/08/2021 13:57	WG1666768
1,2,4-Trichlorobenzene	U		0.000454	0.00117	1	05/08/2021 13:57	WG1666768
1,1,1-Trichloroethane	U		0.000433	0.00117	1	05/08/2021 13:57	WG1666768
1,1,2-Trichloroethane	U		0.000497	0.00117	1	05/08/2021 13:57	WG1666768
Trichloroethene	U		0.000234	0.00117	1	05/08/2021 13:57	WG1666768
Trichlorofluoromethane	U		0.000416	0.00584	1	05/08/2021 13:57	WG1666768
1,1,2-Trichlorotrifluoroethane	U		0.000498	0.00117	1	05/08/2021 13:57	WG1666768
Vinyl chloride	U		0.000264	0.00117	1	05/08/2021 13:57	WG1666768
Xylenes, Total	U		0.000584	0.00351	1	05/08/2021 13:57	WG1666768
(S) Toluene-d8	*108*			*75.0-131*		*05/08/2021 13:57*	WG1666768
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*05/08/2021 13:57*	WG1666768
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*		*05/08/2021 13:57*	WG1666768

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	0.000		0.000	0.000	1	05/08/2021 13:57	WG1666768		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00440	0.0234	1	05/06/2021 15:29	WG1663467
Alpha BHC	U		0.00430	0.0234	1	05/06/2021 15:29	WG1663467
Beta BHC	U		0.00443	0.0234	1	05/06/2021 15:29	WG1663467
Delta BHC	U		0.00404	0.0234	1	05/06/2021 15:29	WG1663467
Gamma BHC	U		0.00402	0.0234	1	05/06/2021 15:29	WG1663467
Chlordane	U		0.120	0.351	1	05/06/2021 15:29	WG1663467
4,4-DDD	U		0.00433	0.0234	1	05/06/2021 15:29	WG1663467
4,4-DDE	U		0.00428	0.0234	1	05/06/2021 15:29	WG1663467
4,4-DDT	U		0.00733	0.0234	1	05/06/2021 15:29	WG1663467
Dieldrin	U		0.00402	0.0234	1	05/06/2021 15:29	WG1663467
Endosulfan I	U		0.00424	0.0234	1	05/06/2021 15:29	WG1663467
Endosulfan II	U		0.00392	0.0234	1	05/06/2021 15:29	WG1663467
Endosulfan sulfate	U		0.00426	0.0234	1	05/06/2021 15:29	WG1663467
Endrin	U		0.00409	0.0234	1	05/06/2021 15:29	WG1663467
Endrin aldehyde	U		0.00396	0.0234	1	05/06/2021 15:29	WG1663467
Endrin ketone	U		0.00831	0.0234	1	05/06/2021 15:29	WG1663467
Hexachlorobenzene	U		0.00404	0.0234	1	05/06/2021 15:29	WG1663467
Heptachlor	U		0.00500	0.0234	1	05/06/2021 15:29	WG1663467
Heptachlor epoxide	U		0.00396	0.0234	1	05/06/2021 15:29	WG1663467
Methoxychlor	U		0.00566	0.0234	1	05/06/2021 15:29	WG1663467
Toxaphene	U		0.145	0.468	1	05/06/2021 15:29	WG1663467
(S) Decachlorobiphenyl	*67.2*			*30.0-150*		*05/06/2021 15:29*	WG1663467
(S) Tetrachloro-m-xylene	*73.3*			*30.0-150*		*05/06/2021 15:29*	WG1663467

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0138	0.0397	1	05/05/2021 18:04	WG1663467
PCB 1221	U		0.0138	0.0397	1	05/05/2021 18:04	WG1663467
PCB 1232	U		0.0138	0.0397	1	05/05/2021 18:04	WG1663467
PCB 1242	U		0.0138	0.0397	1	05/05/2021 18:04	WG1663467
PCB 1248	U		0.00863	0.0199	1	05/05/2021 18:04	WG1663467
PCB 1254	U		0.00863	0.0199	1	05/05/2021 18:04	WG1663467
PCB 1260	U		0.00863	0.0199	1	05/05/2021 18:04	WG1663467
Total PCBs	U		0.00863	0.0199	1	05/05/2021 18:04	WG1663467
(S) Decachlorobiphenyl	*68.7*			*30.0-150*		*05/05/2021 18:04*	WG1663467
(S) Tetrachloro-m-xylene	*71.5*			*30.0-150*		*05/05/2021 18:04*	WG1663467

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U	J4	0.00630	0.0389	1	05/08/2021 18:47	WG1666711
Acenaphthylene	U	J4	0.00548	0.0389	1	05/08/2021 18:47	WG1666711
Acetophenone	U	J4	0.0122	0.389	1	05/08/2021 18:47	WG1666711
Anthracene	U	J4	0.00693	0.0389	1	05/08/2021 18:47	WG1666711
Atrazine	U		0.0134	0.389	1	05/08/2021 18:47	WG1666711
Benzaldehyde	U		0.0207	0.389	1	05/08/2021 18:47	WG1666711
Benzo(a)anthracene	0.00816	J J4	0.00686	0.0389	1	05/08/2021 18:47	WG1666711
Benzo(b)fluoranthene	0.00969	J J4	0.00726	0.0389	1	05/08/2021 18:47	WG1666711
Benzo(k)fluoranthene	U	J4	0.00692	0.0389	1	05/08/2021 18:47	WG1666711
Benzo(g,h,i)perylene	U	J4	0.00712	0.0389	1	05/08/2021 18:47	WG1666711
Benzo(a)pyrene	U	J4	0.00724	0.0389	1	05/08/2021 18:47	WG1666711
Biphenyl	U	J4	0.0124	0.389	1	05/08/2021 18:47	WG1666711
Bis(2-chlorethoxy)methane	U	J4	0.0117	0.389	1	05/08/2021 18:47	WG1666711
Bis(2-chloroethyl)ether	U	J4	0.0129	0.389	1	05/08/2021 18:47	WG1666711

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,2-Oxybis(1-Chloropropane)	U	J4	0.0168	0.389	1	05/08/2021 18:47	WG1666711
4-Bromophenyl-phenylether	U	J4	0.0137	0.389	1	05/08/2021 18:47	WG1666711
Caprolactam	U		0.0193	0.389	1	05/08/2021 18:47	WG1666711
Carbazole	U	J4	0.0120	0.389	1	05/08/2021 18:47	WG1666711
4-Chloroaniline	U	J4	0.0140	0.389	1	05/08/2021 18:47	WG1666711
2-Chloronaphthalene	U	J4	0.00684	0.0389	1	05/08/2021 18:47	WG1666711
4-Chlorophenyl-phenylether	U	J4	0.0136	0.389	1	05/08/2021 18:47	WG1666711
Chrysene	0.00848	J J4	0.00774	0.0389	1	05/08/2021 18:47	WG1666711
Dibenz(a,h)anthracene	U	J4	0.0108	0.0389	1	05/08/2021 18:47	WG1666711
Dibenzofuran	U	J4	0.0127	0.389	1	05/08/2021 18:47	WG1666711
3,3-Dichlorobenzidine	U	J4	0.0144	0.389	1	05/08/2021 18:47	WG1666711
2,4-Dinitrotoluene	U		0.0112	0.389	1	05/08/2021 18:47	WG1666711
2,6-Dinitrotoluene	U	J4	0.0127	0.389	1	05/08/2021 18:47	WG1666711
Fluoranthene	0.0146	J J4	0.00703	0.0389	1	05/08/2021 18:47	WG1666711
Fluorene	U	J4	0.00634	0.0389	1	05/08/2021 18:47	WG1666711
Hexachlorobenzene	U	J4	0.0138	0.389	1	05/08/2021 18:47	WG1666711
Hexachloro-1,3-butadiene	U	J4	0.0131	0.389	1	05/08/2021 18:47	WG1666711
Hexachlorocyclopentadiene	U		0.0205	0.389	1	05/08/2021 18:47	WG1666711
Hexachloroethane	U		0.0153	0.389	1	05/08/2021 18:47	WG1666711
Indeno(1,2,3-cd)pyrene	U	J4	0.0110	0.0389	1	05/08/2021 18:47	WG1666711
Isophorone	U	J4	0.0119	0.389	1	05/08/2021 18:47	WG1666711
2-Methylnaphthalene	U	J4	0.00505	0.0389	1	05/08/2021 18:47	WG1666711
Naphthalene	U	J4	0.00977	0.0389	1	05/08/2021 18:47	WG1666711
2-Nitroaniline	U	J4	0.0125	0.389	1	05/08/2021 18:47	WG1666711
3-Nitroaniline	U	J4	0.0124	0.389	1	05/08/2021 18:47	WG1666711
4-Nitroaniline	U		0.0114	0.389	1	05/08/2021 18:47	WG1666711
Nitrobenzene	U	J4	0.0136	0.389	1	05/08/2021 18:47	WG1666711
n-Nitrosodiphenylamine	U		0.0295	0.389	1	05/08/2021 18:47	WG1666711
n-Nitrosodi-n-propylamine	U	J4	0.0130	0.389	1	05/08/2021 18:47	WG1666711
Phenanthrene	0.00871	J J4	0.00773	0.0389	1	05/08/2021 18:47	WG1666711
Benzylbutyl phthalate	U	J4	0.0122	0.389	1	05/08/2021 18:47	WG1666711
Bis(2-ethylhexyl)phthalate	U	J4	0.0493	0.389	1	05/08/2021 18:47	WG1666711
Di-n-butyl phthalate	U	J4	0.0133	0.389	1	05/08/2021 18:47	WG1666711
Diethyl phthalate	U	J4	0.0129	0.389	1	05/08/2021 18:47	WG1666711
Dimethyl phthalate	U	J4	0.0825	0.389	1	05/08/2021 18:47	WG1666711
Di-n-octyl phthalate	U	J4	0.0263	0.389	1	05/08/2021 18:47	WG1666711
Pyrene	0.0122	J J4	0.00757	0.0389	1	05/08/2021 18:47	WG1666711
1,2,4,5-Tetrachlorobenzene	U		0.0186	0.389	1	05/08/2021 18:47	WG1666711
4-Chloro-3-methylphenol	U	J4	0.0126	0.389	1	05/08/2021 18:47	WG1666711
2-Chlorophenol	U	J4	0.0129	0.389	1	05/08/2021 18:47	WG1666711
2-Methylphenol	U	J4	0.0117	0.389	1	05/08/2021 18:47	WG1666711
3&4-Methyl Phenol	U		0.0122	0.389	1	05/08/2021 18:47	WG1666711
2,4-Dichlorophenol	U	J4	0.0113	0.389	1	05/08/2021 18:47	WG1666711
2,4-Dimethylphenol	U	J4	0.0102	0.389	1	05/08/2021 18:47	WG1666711
4,6-Dinitro-2-methylphenol	U	J4	0.0883	0.389	1	05/08/2021 18:47	WG1666711
2,4-Dinitrophenol	U		0.0911	0.389	1	05/08/2021 18:47	WG1666711
2-Nitrophenol	U	J4	0.0139	0.389	1	05/08/2021 18:47	WG1666711
4-Nitrophenol	U		0.0122	0.389	1	05/08/2021 18:47	WG1666711
Pentachlorophenol	U		0.0105	0.389	1	05/08/2021 18:47	WG1666711
Phenol	U		0.0157	0.389	1	05/08/2021 18:47	WG1666711
2,4,5-Trichlorophenol	U	J4	0.0132	0.389	1	05/08/2021 18:47	WG1666711
2,4,6-Trichlorophenol	U	J4	0.0125	0.389	1	05/08/2021 18:47	WG1666711
(S) 2-Fluorophenol	*69.1*			*30.0-130*		*05/08/2021 18:47*	WG1666711
(S) Phenol-d5	*65.7*			*30.0-130*		*05/08/2021 18:47*	WG1666711
(S) Nitrobenzene-d5	*54.3*			*30.0-130*		*05/08/2021 18:47*	WG1666711
(S) 2-Fluorobiphenyl	*75.9*			*30.0-130*		*05/08/2021 18:47*	WG1666711

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2,4,6-Tribromophenol	*93.4*			*30.0-130*		*05/08/2021 18:47*	WG1666711
(S) p-Terphenyl-d14	*74.4*			*30.0-130*		*05/08/2021 18:47*	WG1666711

Semi Volatile Organic Compounds (GC/MS) by Method 8270C/8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	2.90	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711		
Cyclohexadecane	0.582	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	000295-65-8	9.39
Unknown-01	0.396	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	000123-42-2	2.21
Octadecane, 1-Chloro-	0.323	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	003386-33-2	8.34
Unknown-05	0.311	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	001119-87-5	10.68
Sulfur, Mol. (S8)	0.210	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	010544-50-0	6.95
Unknown-06	0.153	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	005076-20-0	13.60
Phosphonic Acid, Dioctadecyl Ester	0.151	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	019047-85-9	12.18
(Z)14-Tricosenyl Formate	0.115	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	077899-10-6	13.16
Eicosane	0.112	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	000112-95-8	12.11
Nonacosane	0.109	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	000630-03-5	10.65
1-Hexacosanal	0.108	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	000000-00-0	10.24
Ergostanol	0.0931	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	006538-02-9	13.66
17-Pentatriacontene	0.0900	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	006971-40-0	13.55
Unknown-04	0.0787	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	000613-12-7	5.05
Octadecanal	0.0690	J N	0.000	0.000	1	05/08/2021 18:47	WG1666711	000638-66-4	11.67

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cyanide	U		1.80	5.00	1	05/06/2021 20:28	WG1665647

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.100	0.200	1	05/07/2021 11:53	WG1663098

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aluminum	5810		18.5	100	1	05/15/2021 00:28	WG1669683
Antimony	U		1.03	4.00	1	05/15/2021 00:28	WG1669683
Arsenic	4.83		0.180	2.00	1	05/15/2021 00:28	WG1669683
Barium	65.8		0.381	20.0	1	05/15/2021 00:28	WG1669683
Beryllium	0.375	J	0.190	2.00	1	05/15/2021 00:28	WG1669683
Cadmium	0.238	J	0.150	1.00	1	05/15/2021 00:28	WG1669683
Calcium	78600		93.6	1000	1	05/15/2021 00:28	WG1669683
Chromium	26.8		1.24	2.00	1	05/15/2021 00:28	WG1669683
Copper	20.0		1.51	5.00	1	05/15/2021 00:28	WG1669683
Cobalt	51.3		0.0596	2.00	1	05/15/2021 00:28	WG1669683
Iron	11600		28.1	100	1	05/15/2021 00:28	WG1669683
Lead	28.2		0.849	2.00	1	05/15/2021 00:28	WG1669683
Magnesium	28100		73.5	1000	1	05/15/2021 00:28	WG1669683
Manganese	222		0.704	5.00	1	05/15/2021 00:28	WG1669683
Nickel	12.6		0.816	2.00	1	05/15/2021 00:28	WG1669683
Potassium	11600		108	2000	1	05/15/2021 00:28	WG1669683
Selenium	34.0		0.300	2.00	1	05/15/2021 00:28	WG1669683
Silver	U		0.0700	2.00	1	05/15/2021 00:28	WG1669683
Sodium	56200		376	2000	1	05/15/2021 00:28	WG1669683
Thallium	0.132	J	0.121	2.00	1	05/15/2021 00:28	WG1669683
Vanadium	29.7		0.664	5.00	1	05/15/2021 00:28	WG1669683
Zinc	110		3.02	25.0	1	05/15/2021 00:28	WG1669683

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	05/04/2021 22:15	WG1664238
Benzene	U		0.0941	1.00	1	05/04/2021 22:15	WG1664238
Bromochloromethane	U		0.128	1.00	1	05/04/2021 22:15	WG1664238
Bromodichloromethane	U		0.136	1.00	1	05/04/2021 22:15	WG1664238
Bromoform	U		0.129	1.00	1	05/04/2021 22:15	WG1664238
Bromomethane	U		0.605	5.00	1	05/04/2021 22:15	WG1664238
Carbon disulfide	U		0.0962	1.00	1	05/04/2021 22:15	WG1664238
Carbon tetrachloride	U		0.128	1.00	1	05/04/2021 22:15	WG1664238
Chlorobenzene	U		0.116	1.00	1	05/04/2021 22:15	WG1664238
Chlorodibromomethane	U		0.140	1.00	1	05/04/2021 22:15	WG1664238
Chloroethane	U		0.192	5.00	1	05/04/2021 22:15	WG1664238
Chloroform	U		0.111	5.00	1	05/04/2021 22:15	WG1664238
Chloromethane	U		0.960	2.50	1	05/04/2021 22:15	WG1664238
Cyclohexane	U		0.188	1.00	1	05/04/2021 22:15	WG1664238
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	05/04/2021 22:15	WG1664238
1,2-Dibromoethane	U		0.126	1.00	1	05/04/2021 22:15	WG1664238
1,2-Dichlorobenzene	U		0.107	1.00	1	05/04/2021 22:15	WG1664238
1,3-Dichlorobenzene	U		0.110	1.00	1	05/04/2021 22:15	WG1664238

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,4-Dichlorobenzene	U		0.120	1.00	1	05/04/2021 22:15	WG1664238
Dichlorodifluoromethane	U		0.374	5.00	1	05/04/2021 22:15	WG1664238
1,1-Dichloroethane	U		0.100	1.00	1	05/04/2021 22:15	WG1664238
1,2-Dichloroethane	U		0.0819	1.00	1	05/04/2021 22:15	WG1664238
1,1-Dichloroethene	U		0.188	1.00	1	05/04/2021 22:15	WG1664238
cis-1,2-Dichloroethene	U		0.126	1.00	1	05/04/2021 22:15	WG1664238
trans-1,2-Dichloroethene	U		0.149	1.00	1	05/04/2021 22:15	WG1664238
1,2-Dichloropropane	U		0.149	1.00	1	05/04/2021 22:15	WG1664238
cis-1,3-Dichloropropene	U		0.111	1.00	1	05/04/2021 22:15	WG1664238
trans-1,3-Dichloropropene	U		0.118	1.00	1	05/04/2021 22:15	WG1664238
Ethylbenzene	U		0.137	1.00	1	05/04/2021 22:15	WG1664238
2-Hexanone	U		0.787	10.0	1	05/04/2021 22:15	WG1664238
Isopropylbenzene	U		0.105	1.00	1	05/04/2021 22:15	WG1664238
2-Butanone (MEK)	U		1.19	10.0	1	05/04/2021 22:15	WG1664238
Methyl Acetate	U		1.29	20.0	1	05/04/2021 22:15	WG1664238
Methyl Cyclohexane	U		0.660	1.00	1	05/04/2021 22:15	WG1664238
Methylene Chloride	U		0.430	5.00	1	05/04/2021 22:15	WG1664238
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	05/04/2021 22:15	WG1664238
Methyl tert-butyl ether	U		0.101	1.00	1	05/04/2021 22:15	WG1664238
Naphthalene	U		1.00	5.00	1	05/04/2021 22:15	WG1664238
tert-Butyl alcohol	U		4.06	5.00	1	05/04/2021 22:15	WG1664238
Styrene	U		0.118	1.00	1	05/04/2021 22:15	WG1664238
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	05/04/2021 22:15	WG1664238
Tetrachloroethene	U		0.300	1.00	1	05/04/2021 22:15	WG1664238
Toluene	U		0.278	1.00	1	05/04/2021 22:15	WG1664238
1,2,3-Trichlorobenzene	U		0.230	1.00	1	05/04/2021 22:15	WG1664238
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/04/2021 22:15	WG1664238
1,1,1-Trichloroethane	0.676	J	0.149	1.00	1	05/04/2021 22:15	WG1664238
1,1,2-Trichloroethane	U		0.158	1.00	1	05/04/2021 22:15	WG1664238
Trichloroethene	U		0.190	1.00	1	05/04/2021 22:15	WG1664238
Trichlorofluoromethane	U		0.160	5.00	1	05/04/2021 22:15	WG1664238
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	05/04/2021 22:15	WG1664238
Vinyl chloride	U	C3	0.234	1.00	1	05/04/2021 22:15	WG1664238
Xylenes, Total	U		0.174	3.00	1	05/04/2021 22:15	WG1664238
(S) Toluene-d8	*105*			*80.0-120*		*05/04/2021 22:15*	WG1664238
(S) 4-Bromofluorobenzene	*93.3*			*77.0-126*		*05/04/2021 22:15*	WG1664238
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*		*05/04/2021 22:15*	WG1664238

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	CAS #	RT
	ug/l		ug/l	ug/l		date / time			
Total Tic	0.000		0.000	0.000	1	05/04/2021 22:15	WG1664238		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	05/06/2021 15:43	WG1664603
1,2-Dibromo-3-Chloropropane	U		0.00748	0.0200	1	05/06/2021 15:43	WG1664603

Pesticides (GC) by Method 8081B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Aldrin	U		0.00813	0.0400	1	05/05/2021 22:42	WG1664121
Alpha BHC	U		0.0166	0.0200	1	05/05/2021 22:42	WG1664121
Beta BHC	U		0.0184	0.0400	1	05/05/2021 22:42	WG1664121
Delta BHC	U		0.0197	0.0500	1	05/05/2021 22:42	WG1664121
Gamma BHC	U		0.0176	0.0300	1	05/05/2021 22:42	WG1664121
Chlordane	U		0.0977	0.500	1	05/05/2021 22:42	WG1664121
4,4-DDD	U		0.0170	0.0500	1	05/05/2021 22:42	WG1664121
4,4-DDE	U		0.0164	0.0500	1	05/05/2021 22:42	WG1664121
4,4-DDT	U		0.0177	0.0500	1	05/05/2021 22:42	WG1664121
Dieldrin	U		0.00751	0.0500	1	05/05/2021 22:42	WG1664121
Endosulfan I	U		0.0179	0.0500	1	05/05/2021 22:42	WG1664121
Endosulfan II	U		0.0176	0.0500	1	05/05/2021 22:42	WG1664121
Endosulfan sulfate	U		0.0196	0.0500	1	05/05/2021 22:42	WG1664121
Endrin	U		0.0189	0.0500	1	05/05/2021 22:42	WG1664121
Endrin aldehyde	U	J4	0.0142	0.0500	1	05/05/2021 22:42	WG1664121
Endrin ketone	U		0.0170	0.0500	1	05/05/2021 22:42	WG1664121
Hexachlorobenzene	U		0.0134	0.0500	1	05/05/2021 22:42	WG1664121
Heptachlor	U		0.0108	0.0500	1	05/05/2021 22:42	WG1664121
Heptachlor epoxide	U		0.0175	0.0500	1	05/05/2021 22:42	WG1664121
Methoxychlor	U		0.0193	0.0500	1	05/05/2021 22:42	WG1664121
Toxaphene	U		0.168	0.500	1	05/05/2021 22:42	WG1664121
(S) Decachlorobiphenyl	*29.8*	J2		*30.0-150*		*05/05/2021 22:42*	WG1664121
(S) Tetrachloro-m-xylene	*84.0*			*30.0-150*		*05/05/2021 22:42*	WG1664121

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
PCB 1016	U		0.100	0.500	1	05/05/2021 15:54	WG1664121
PCB 1221	U		0.0730	0.500	1	05/05/2021 15:54	WG1664121
PCB 1232	U		0.0420	0.500	1	05/05/2021 15:54	WG1664121
PCB 1242	U		0.0470	0.500	1	05/05/2021 15:54	WG1664121
PCB 1248	U		0.0860	0.500	1	05/05/2021 15:54	WG1664121
PCB 1254	U		0.0470	0.500	1	05/05/2021 15:54	WG1664121
PCB 1260	U		0.120	0.500	1	05/05/2021 15:54	WG1664121
Total PCBs	U		0.0420	0.500	1	05/05/2021 15:54	WG1664121
(S) Decachlorobiphenyl	*35.3*			*30.0-150*		*05/05/2021 15:54*	WG1664121
(S) Tetrachloro-m-xylene	*80.8*			*30.0-150*		*05/05/2021 15:54*	WG1664121

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetophenone	U		0.237	11.4	1.14	05/05/2021 21:39	WG1663492
Atrazine	U		0.291	11.4	1.14	05/05/2021 21:39	WG1663492
Benzaldehyde	U	J4	1.93	11.4	1.14	05/05/2021 21:39	WG1663492
Biphenyl	U		0.901	11.4	1.14	05/05/2021 21:39	WG1663492
Bis(2-chlorethoxy)methane	U		0.132	11.4	1.14	05/05/2021 21:39	WG1663492
Bis(2-chloroethyl)ether	U		0.156	11.4	1.14	05/05/2021 21:39	WG1663492
2,2-Oxybis(1-Chloropropane)	U		0.239	11.4	1.14	05/05/2021 21:39	WG1663492
4-Bromophenyl-phenylether	U		0.100	11.4	1.14	05/05/2021 21:39	WG1663492
Caprolactam	U		0.352	11.4	1.14	05/05/2021 21:39	WG1663492
Carbazole	U		0.127	11.4	1.14	05/05/2021 21:39	WG1663492
4-Chloroaniline	U	J4	0.267	11.4	1.14	05/05/2021 21:39	WG1663492
4-Chlorophenyl-phenylether	U		0.106	11.4	1.14	05/05/2021 21:39	WG1663492
Dibenzofuran	U		0.111	11.4	1.14	05/05/2021 21:39	WG1663492
3,3-Dichlorobenzidine	U		0.242	11.4	1.14	05/05/2021 21:39	WG1663492

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
2,4-Dinitrotoluene	U		0.112	11.4	1.14	05/05/2021 21:39	WG1663492
2,6-Dinitrotoluene	U		0.285	11.4	1.14	05/05/2021 21:39	WG1663492
Hexachloro-1,3-butadiene	U		0.110	11.4	1.14	05/05/2021 21:39	WG1663492
Hexachlorocyclopentadiene	U		0.0682	11.4	1.14	05/05/2021 21:39	WG1663492
Hexachloroethane	U		0.145	11.4	1.14	05/05/2021 21:39	WG1663492
Isophorone	U		0.163	11.4	1.14	05/05/2021 21:39	WG1663492
2-Nitroaniline	U		0.116	11.4	1.14	05/05/2021 21:39	WG1663492
3-Nitroaniline	U		0.0991	11.4	1.14	05/05/2021 21:39	WG1663492
4-Nitroaniline	U		0.104	11.4	1.14	05/05/2021 21:39	WG1663492
Nitrobenzene	U		0.339	11.4	1.14	05/05/2021 21:39	WG1663492
n-Nitrosodiphenylamine	U		2.70	11.4	1.14	05/05/2021 21:39	WG1663492
n-Nitrosodi-n-propylamine	U		0.298	11.4	1.14	05/05/2021 21:39	WG1663492
Benzylbutyl phthalate	U		0.872	3.42	1.14	05/05/2021 21:39	WG1663492
Bis(2-ethylhexyl)phthalate	U		1.02	3.42	1.14	05/05/2021 21:39	WG1663492
Di-n-butyl phthalate	U		0.516	3.42	1.14	05/05/2021 21:39	WG1663492
Diethyl phthalate	U		0.327	3.42	1.14	05/05/2021 21:39	WG1663492
Dimethyl phthalate	U		0.296	3.42	1.14	05/05/2021 21:39	WG1663492
Di-n-octyl phthalate	U		1.06	3.42	1.14	05/05/2021 21:39	WG1663492
1,2,4,5-Tetrachlorobenzene	U		0.0738	11.4	1.14	05/05/2021 21:39	WG1663492
4-Chloro-3-methylphenol	U	J4	0.149	11.4	1.14	05/05/2021 21:39	WG1663492
2-Chlorophenol	U	J4	0.152	11.4	1.14	05/05/2021 21:39	WG1663492
2-Methylphenol	U	J4	0.106	11.4	1.14	05/05/2021 21:39	WG1663492
3&4-Methyl Phenol	U		0.192	11.4	1.14	05/05/2021 21:39	WG1663492
2,4-Dichlorophenol	U		0.116	11.4	1.14	05/05/2021 21:39	WG1663492
2,4-Dimethylphenol	U	J4	0.0725	11.4	1.14	05/05/2021 21:39	WG1663492
4,6-Dinitro-2-methylphenol	U		1.28	11.4	1.14	05/05/2021 21:39	WG1663492
2,4-Dinitrophenol	U		6.76	11.4	1.14	05/05/2021 21:39	WG1663492
2-Nitrophenol	U		0.133	11.4	1.14	05/05/2021 21:39	WG1663492
4-Nitrophenol	U		0.163	11.4	1.14	05/06/2021 15:06	WG1663492
Pentachlorophenol	U		0.357	11.4	1.14	05/05/2021 21:39	WG1663492
Phenol	U		4.94	11.4	1.14	05/05/2021 21:39	WG1663492
2,4,5-Trichlorophenol	U		0.124	11.4	1.14	05/05/2021 21:39	WG1663492
2,4,6-Trichlorophenol	U		0.114	11.4	1.14	05/05/2021 21:39	WG1663492
(S) 2-Fluorophenol	*56.8*			*15.0-110*		*05/06/2021 15:06*	WG1663492
(S) 2-Fluorophenol	*56.8*			*15.0-110*		*05/05/2021 21:39*	WG1663492
(S) Phenol-d5	*39.1*			*15.0-110*		*05/05/2021 21:39*	WG1663492
(S) Phenol-d5	*40.4*			*15.0-110*		*05/06/2021 15:06*	WG1663492
(S) Nitrobenzene-d5	*85.5*			*30.0-130*		*05/05/2021 21:39*	WG1663492
(S) Nitrobenzene-d5	*85.9*			*30.0-130*		*05/06/2021 15:06*	WG1663492
(S) 2-Fluorobiphenyl	*103*			*30.0-130*		*05/06/2021 15:06*	WG1663492
(S) 2-Fluorobiphenyl	*104*			*30.0-130*		*05/05/2021 21:39*	WG1663492
(S) 2,4,6-Tribromophenol	*107*			*15.0-110*		*05/05/2021 21:39*	WG1663492
(S) 2,4,6-Tribromophenol	*109*			*15.0-110*		*05/06/2021 15:06*	WG1663492
(S) p-Terphenyl-d14	*94.7*			*30.0-130*		*05/05/2021 21:39*	WG1663492
(S) p-Terphenyl-d14	*97.4*			*30.0-130*		*05/06/2021 15:06*	WG1663492

Sample Narrative:

L1346268-25 WG1663492: Dilution due to sample volume.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	0.000		0.000	0.000	1.14	05/06/2021 15:06	WG1663492		
Total Tic	11.3	J N	0.000	0.000	1.14	05/05/2021 21:39	WG1663492		
Unknown-01	11.3	J N	0.000	0.000	1.14	05/05/2021 21:39	WG1663492	000076-06-2	1.62

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	CAS #	RT
	ug/l		ug/l	ug/l		date / time			

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Anthracene	U		0.0190	0.0500	1	05/06/2021 02:57	WG1665257
Acenaphthene	U		0.0190	0.0500	1	05/06/2021 02:57	WG1665257
Acenaphthylene	U		0.0171	0.0500	1	05/06/2021 02:57	WG1665257
Benzo(a)anthracene	U		0.0203	0.0500	1	05/06/2021 02:57	WG1665257
Benzo(a)pyrene	U		0.0184	0.0500	1	05/06/2021 02:57	WG1665257
Benzo(b)fluoranthene	U		0.0168	0.0500	1	05/06/2021 02:57	WG1665257
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	05/06/2021 02:57	WG1665257
Benzo(k)fluoranthene	U		0.0202	0.0500	1	05/06/2021 02:57	WG1665257
Chrysene	U		0.0179	0.0500	1	05/06/2021 02:57	WG1665257
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	05/06/2021 02:57	WG1665257
Fluoranthene	U		0.0270	0.100	1	05/06/2021 02:57	WG1665257
Fluorene	U		0.0169	0.0500	1	05/06/2021 02:57	WG1665257
Hexachlorobenzene	U		0.00670	0.0200	1	05/06/2021 02:57	WG1665257
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	05/06/2021 02:57	WG1665257
Naphthalene	U		0.0917	0.250	1	05/06/2021 02:57	WG1665257
Phenanthrene	0.0249	J	0.0180	0.0500	1	05/06/2021 02:57	WG1665257
Pyrene	U		0.0169	0.0500	1	05/06/2021 02:57	WG1665257
1-Methylnaphthalene	U		0.0687	0.250	1	05/06/2021 02:57	WG1665257
2-Methylnaphthalene	U		0.0674	0.250	1	05/06/2021 02:57	WG1665257
2-Chloronaphthalene	U		0.0682	0.250	1	05/06/2021 02:57	WG1665257
(S) Nitrobenzene-d5	*135*			*31.0-160*		*05/06/2021 02:57*	WG1665257
(S) 2-Fluorobiphenyl	*97.4*			*48.0-148*		*05/06/2021 02:57*	WG1665257
(S) p-Terphenyl-d14	*78.4*			*37.0-146*		*05/06/2021 02:57*	WG1665257

Wet Chemistry by Method 4500CN E-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Cyanide	2.20	J	1.80	5.00	1	05/06/2021 20:29	WG1665647

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	0.173	J	0.100	0.200	1	05/07/2021 11:55	WG1663098

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Aluminum	163000		185	1000	10	05/15/2021 00:31	WG1669683
Antimony	3.28	J	1.03	4.00	1	05/15/2021 01:46	WG1669683
Arsenic	249		1.80	20.0	10	05/15/2021 00:31	WG1669683
Barium	799		3.81	200	10	05/15/2021 00:31	WG1669683
Beryllium	18.5	J	1.90	20.0	10	05/15/2021 00:31	WG1669683
Cadmium	3.79	J	1.50	10.0	10	05/15/2021 00:31	WG1669683
Calcium	75900		936	10000	10	05/15/2021 00:31	WG1669683
Chromium	592		12.4	20.0	10	05/15/2021 00:31	WG1669683
Copper	404		15.1	50.0	10	05/15/2021 00:31	WG1669683
Cobalt	238		0.596	20.0	10	05/15/2021 00:31	WG1669683
Iron	479000		281	1000	10	05/15/2021 00:31	WG1669683
Lead	435		8.49	20.0	10	05/15/2021 00:31	WG1669683
Magnesium	84400		735	10000	10	05/15/2021 00:31	WG1669683
Manganese	2720		7.04	50.0	10	05/15/2021 00:31	WG1669683
Nickel	192		8.16	20.0	10	05/15/2021 00:31	WG1669683
Potassium	16900	J	1080	20000	10	05/15/2021 00:31	WG1669683
Selenium	31.8		3.00	20.0	10	05/15/2021 00:31	WG1669683
Silver	1.40	B J	0.700	20.0	10	05/15/2021 00:31	WG1669683
Sodium	21500		3760	20000	10	05/15/2021 00:31	WG1669683
Thallium	2.01	J	1.21	20.0	10	05/15/2021 00:31	WG1669683
Vanadium	1130		6.64	50.0	10	05/15/2021 00:31	WG1669683
Zinc	901		30.2	250	10	05/15/2021 00:31	WG1669683

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	05/04/2021 22:36	WG1664238
Benzene	U		0.0941	1.00	1	05/04/2021 22:36	WG1664238
Bromochloromethane	U		0.128	1.00	1	05/04/2021 22:36	WG1664238
Bromodichloromethane	U		0.136	1.00	1	05/04/2021 22:36	WG1664238
Bromoform	U		0.129	1.00	1	05/04/2021 22:36	WG1664238
Bromomethane	U		0.605	5.00	1	05/04/2021 22:36	WG1664238
Carbon disulfide	U		0.0962	1.00	1	05/04/2021 22:36	WG1664238
Carbon tetrachloride	U		0.128	1.00	1	05/04/2021 22:36	WG1664238
Chlorobenzene	U		0.116	1.00	1	05/04/2021 22:36	WG1664238
Chlorodibromomethane	U		0.140	1.00	1	05/04/2021 22:36	WG1664238
Chloroethane	U		0.192	5.00	1	05/04/2021 22:36	WG1664238
Chloroform	U		0.111	5.00	1	05/04/2021 22:36	WG1664238
Chloromethane	U		0.960	2.50	1	05/04/2021 22:36	WG1664238
Cyclohexane	U		0.188	1.00	1	05/04/2021 22:36	WG1664238
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	05/04/2021 22:36	WG1664238
1,2-Dibromoethane	U		0.126	1.00	1	05/04/2021 22:36	WG1664238
1,2-Dichlorobenzene	U		0.107	1.00	1	05/04/2021 22:36	WG1664238
1,3-Dichlorobenzene	U		0.110	1.00	1	05/04/2021 22:36	WG1664238

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,4-Dichlorobenzene	U		0.120	1.00	1	05/04/2021 22:36	WG1664238
Dichlorodifluoromethane	U		0.374	5.00	1	05/04/2021 22:36	WG1664238
1,1-Dichloroethane	U		0.100	1.00	1	05/04/2021 22:36	WG1664238
1,2-Dichloroethane	U		0.0819	1.00	1	05/04/2021 22:36	WG1664238
1,1-Dichloroethene	U		0.188	1.00	1	05/04/2021 22:36	WG1664238
cis-1,2-Dichloroethene	U		0.126	1.00	1	05/04/2021 22:36	WG1664238
trans-1,2-Dichloroethene	U		0.149	1.00	1	05/04/2021 22:36	WG1664238
1,2-Dichloropropane	U		0.149	1.00	1	05/04/2021 22:36	WG1664238
cis-1,3-Dichloropropene	U		0.111	1.00	1	05/04/2021 22:36	WG1664238
trans-1,3-Dichloropropene	U		0.118	1.00	1	05/04/2021 22:36	WG1664238
Ethylbenzene	U		0.137	1.00	1	05/04/2021 22:36	WG1664238
2-Hexanone	U		0.787	10.0	1	05/04/2021 22:36	WG1664238
Isopropylbenzene	U		0.105	1.00	1	05/04/2021 22:36	WG1664238
2-Butanone (MEK)	U		1.19	10.0	1	05/04/2021 22:36	WG1664238
Methyl Acetate	U		1.29	20.0	1	05/04/2021 22:36	WG1664238
Methyl Cyclohexane	U		0.660	1.00	1	05/04/2021 22:36	WG1664238
Methylene Chloride	U		0.430	5.00	1	05/04/2021 22:36	WG1664238
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	05/04/2021 22:36	WG1664238
Methyl tert-butyl ether	U		0.101	1.00	1	05/04/2021 22:36	WG1664238
Naphthalene	U		1.00	5.00	1	05/04/2021 22:36	WG1664238
tert-Butyl alcohol	U		4.06	5.00	1	05/04/2021 22:36	WG1664238
Styrene	U		0.118	1.00	1	05/04/2021 22:36	WG1664238
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	05/04/2021 22:36	WG1664238
Tetrachloroethene	U		0.300	1.00	1	05/04/2021 22:36	WG1664238
Toluene	U		0.278	1.00	1	05/04/2021 22:36	WG1664238
1,2,3-Trichlorobenzene	U		0.230	1.00	1	05/04/2021 22:36	WG1664238
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/04/2021 22:36	WG1664238
1,1,1-Trichloroethane	U		0.149	1.00	1	05/04/2021 22:36	WG1664238
1,1,2-Trichloroethane	U		0.158	1.00	1	05/04/2021 22:36	WG1664238
Trichloroethene	U		0.190	1.00	1	05/04/2021 22:36	WG1664238
Trichlorofluoromethane	U		0.160	5.00	1	05/04/2021 22:36	WG1664238
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	05/04/2021 22:36	WG1664238
Vinyl chloride	U	C3	0.234	1.00	1	05/04/2021 22:36	WG1664238
Xylenes, Total	U		0.174	3.00	1	05/04/2021 22:36	WG1664238
(S) Toluene-d8	*102*			*80.0-120*		*05/04/2021 22:36*	WG1664238
(S) 4-Bromofluorobenzene	*91.8*			*77.0-126*		*05/04/2021 22:36*	WG1664238
(S) 1,2-Dichloroethane-d4	*124*			*70.0-130*		*05/04/2021 22:36*	WG1664238

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	CAS #	RT
	ug/l		ug/l	ug/l		date / time			
Total Tic	0.000		0.000	0.000	1	05/04/2021 22:36	WG1664238		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	05/06/2021 15:55	WG1664603
1,2-Dibromo-3-Chloropropane	U		0.00748	0.0200	1	05/06/2021 15:55	WG1664603

Pesticides (GC) by Method 8081B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aldrin	U		0.00813	0.0400	1	05/05/2021 22:55	WG1664121
Alpha BHC	U		0.0166	0.0200	1	05/05/2021 22:55	WG1664121
Beta BHC	U		0.0184	0.0400	1	05/05/2021 22:55	WG1664121
Delta BHC	U		0.0197	0.0500	1	05/05/2021 22:55	WG1664121
Gamma BHC	U		0.0176	0.0300	1	05/05/2021 22:55	WG1664121
Chlordane	U		0.0977	0.500	1	05/05/2021 22:55	WG1664121
4,4-DDD	U		0.0170	0.0500	1	05/05/2021 22:55	WG1664121
4,4-DDE	U		0.0164	0.0500	1	05/05/2021 22:55	WG1664121
4,4-DDT	U		0.0177	0.0500	1	05/05/2021 22:55	WG1664121
Dieldrin	U		0.00751	0.0500	1	05/05/2021 22:55	WG1664121
Endosulfan I	0.371		0.0179	0.0500	1	05/05/2021 22:55	WG1664121
Endosulfan II	U		0.0176	0.0500	1	05/05/2021 22:55	WG1664121
Endosulfan sulfate	U		0.0196	0.0500	1	05/05/2021 22:55	WG1664121
Endrin	U		0.0189	0.0500	1	05/05/2021 22:55	WG1664121
Endrin aldehyde	U	J4	0.0142	0.0500	1	05/05/2021 22:55	WG1664121
Endrin ketone	U		0.0170	0.0500	1	05/05/2021 22:55	WG1664121
Hexachlorobenzene	U		0.0134	0.0500	1	05/05/2021 22:55	WG1664121
Heptachlor	U		0.0108	0.0500	1	05/05/2021 22:55	WG1664121
Heptachlor epoxide	0.271		0.0175	0.0500	1	05/05/2021 22:55	WG1664121
Methoxychlor	U		0.0193	0.0500	1	05/05/2021 22:55	WG1664121
Toxaphene	U		0.168	0.500	1	05/05/2021 22:55	WG1664121
(S) Decachlorobiphenyl	*23.9*	J2		*30.0-150*		*05/05/2021 22:55*	WG1664121
(S) Tetrachloro-m-xylene	*78.8*			*30.0-150*		*05/05/2021 22:55*	WG1664121

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
PCB 1016	U		0.100	0.500	1	05/05/2021 16:06	WG1664121
PCB 1221	U		0.0730	0.500	1	05/05/2021 16:06	WG1664121
PCB 1232	U		0.0420	0.500	1	05/05/2021 16:06	WG1664121
PCB 1242	U		0.0470	0.500	1	05/05/2021 16:06	WG1664121
PCB 1248	U		0.0860	0.500	1	05/05/2021 16:06	WG1664121
PCB 1254	U		0.0470	0.500	1	05/05/2021 16:06	WG1664121
PCB 1260	U		0.120	0.500	1	05/05/2021 16:06	WG1664121
Total PCBs	U		0.0420	0.500	1	05/05/2021 16:06	WG1664121
(S) Decachlorobiphenyl	*34.2*			*30.0-150*		*05/05/2021 16:06*	WG1664121
(S) Tetrachloro-m-xylene	*77.6*			*30.0-150*		*05/05/2021 16:06*	WG1664121

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetophenone	U		0.212	10.2	1.02	05/05/2021 22:01	WG1663492
Atrazine	U		0.260	10.2	1.02	05/05/2021 22:01	WG1663492
Benzaldehyde	U	J4	1.72	10.2	1.02	05/05/2021 22:01	WG1663492
Biphenyl	U		0.806	10.2	1.02	05/05/2021 22:01	WG1663492
Bis(2-chlorethoxy)methane	U		0.118	10.2	1.02	05/05/2021 22:01	WG1663492
Bis(2-chloroethyl)ether	U		0.140	10.2	1.02	05/05/2021 22:01	WG1663492
2,2-Oxybis(1-Chloropropane)	U		0.214	10.2	1.02	05/05/2021 22:01	WG1663492
4-Bromophenyl-phenylether	U		0.0895	10.2	1.02	05/05/2021 22:01	WG1663492
Caprolactam	U		0.315	10.2	1.02	05/05/2021 22:01	WG1663492
Carbazole	U		0.113	10.2	1.02	05/05/2021 22:01	WG1663492
4-Chloroaniline	U	J4	0.239	10.2	1.02	05/05/2021 22:01	WG1663492
4-Chlorophenyl-phenylether	U		0.0945	10.2	1.02	05/05/2021 22:01	WG1663492
Dibenzofuran	U		0.0989	10.2	1.02	05/05/2021 22:01	WG1663492
3,3-Dichlorobenzidine	U		0.216	10.2	1.02	05/05/2021 22:01	WG1663492

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
2,4-Dinitrotoluene	U		0.100	10.2	1.02	05/05/2021 22:01	WG1663492
2,6-Dinitrotoluene	U		0.255	10.2	1.02	05/05/2021 22:01	WG1663492
Hexachloro-1,3-butadiene	U		0.0987	10.2	1.02	05/05/2021 22:01	WG1663492
Hexachlorocyclopentadiene	U		0.0610	10.2	1.02	05/05/2021 22:01	WG1663492
Hexachloroethane	U		0.130	10.2	1.02	05/05/2021 22:01	WG1663492
Isophorone	U		0.146	10.2	1.02	05/05/2021 22:01	WG1663492
2-Nitroaniline	U		0.104	10.2	1.02	05/05/2021 22:01	WG1663492
3-Nitroaniline	U		0.0886	10.2	1.02	05/05/2021 22:01	WG1663492
4-Nitroaniline	U		0.0928	10.2	1.02	05/05/2021 22:01	WG1663492
Nitrobenzene	U		0.303	10.2	1.02	05/05/2021 22:01	WG1663492
n-Nitrosodiphenylamine	U		2.42	10.2	1.02	05/05/2021 22:01	WG1663492
n-Nitrosodi-n-propylamine	U		0.266	10.2	1.02	05/05/2021 22:01	WG1663492
Benzylbutyl phthalate	U		0.780	3.06	1.02	05/05/2021 22:01	WG1663492
Bis(2-ethylhexyl)phthalate	U		0.913	3.06	1.02	05/05/2021 22:01	WG1663492
Di-n-butyl phthalate	U		0.462	3.06	1.02	05/05/2021 22:01	WG1663492
Diethyl phthalate	U		0.293	3.06	1.02	05/05/2021 22:01	WG1663492
Dimethyl phthalate	U		0.265	3.06	1.02	05/05/2021 22:01	WG1663492
Di-n-octyl phthalate	U		0.951	3.06	1.02	05/05/2021 22:01	WG1663492
1,2,4,5-Tetrachlorobenzene	U		0.0660	10.2	1.02	05/05/2021 22:01	WG1663492
4-Chloro-3-methylphenol	U	J4	0.134	10.2	1.02	05/05/2021 22:01	WG1663492
2-Chlorophenol	U	J4	0.136	10.2	1.02	05/05/2021 22:01	WG1663492
2-Methylphenol	U	J4	0.0948	10.2	1.02	05/05/2021 22:01	WG1663492
3&4-Methyl Phenol	U		0.171	10.2	1.02	05/05/2021 22:01	WG1663492
2,4-Dichlorophenol	U		0.104	10.2	1.02	05/05/2021 22:01	WG1663492
2,4-Dimethylphenol	U	J4	0.0649	10.2	1.02	05/05/2021 22:01	WG1663492
4,6-Dinitro-2-methylphenol	U		1.14	10.2	1.02	05/05/2021 22:01	WG1663492
2,4-Dinitrophenol	U		6.05	10.2	1.02	05/05/2021 22:01	WG1663492
2-Nitrophenol	U		0.119	10.2	1.02	05/05/2021 22:01	WG1663492
4-Nitrophenol	U		0.146	10.2	1.02	05/06/2021 15:27	WG1663492
Pentachlorophenol	U		0.319	10.2	1.02	05/05/2021 22:01	WG1663492
Phenol	U		4.42	10.2	1.02	05/05/2021 22:01	WG1663492
2,4,5-Trichlorophenol	U		0.111	10.2	1.02	05/05/2021 22:01	WG1663492
2,4,6-Trichlorophenol	U		0.102	10.2	1.02	05/05/2021 22:01	WG1663492
(S) 2-Fluorophenol	*52.5*			*15.0-110*		*05/06/2021 15:27*	WG1663492
(S) 2-Fluorophenol	*50.5*			*15.0-110*		*05/05/2021 22:01*	WG1663492
(S) Phenol-d5	*36.1*			*15.0-110*		*05/06/2021 15:27*	WG1663492
(S) Phenol-d5	*35.5*			*15.0-110*		*05/05/2021 22:01*	WG1663492
(S) Nitrobenzene-d5	*81.3*			*30.0-130*		*05/05/2021 22:01*	WG1663492
(S) Nitrobenzene-d5	*79.4*			*30.0-130*		*05/06/2021 15:27*	WG1663492
(S) 2-Fluorobiphenyl	*96.4*			*30.0-130*		*05/05/2021 22:01*	WG1663492
(S) 2-Fluorobiphenyl	*94.2*			*30.0-130*		*05/06/2021 15:27*	WG1663492
(S) 2,4,6-Tribromophenol	*97.1*			*15.0-110*		*05/05/2021 22:01*	WG1663492
(S) 2,4,6-Tribromophenol	*99.0*			*15.0-110*		*05/06/2021 15:27*	WG1663492
(S) p-Terphenyl-d14	*93.2*			*30.0-130*		*05/05/2021 22:01*	WG1663492
(S) p-Terphenyl-d14	*91.2*			*30.0-130*		*05/06/2021 15:27*	WG1663492

Sample Narrative:

L1346268-26 WG1663492: Dilution due to sample volume.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	0.000		0.000	0.000	1.02	05/06/2021 15:27	WG1663492		
Total Tic	10.5	J N	0.000	0.000	1.02	05/05/2021 22:01	WG1663492		
Carbon Tetrachloride	10.5	J N	0.000	0.000	1.02	05/05/2021 22:01	WG1663492	000056-23-5	1.63

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	CAS #	RT
	ug/l		ug/l	ug/l		date / time			

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Anthracene	U		0.0190	0.0500	1	05/06/2021 03:17	WG1665257
Acenaphthene	U		0.0190	0.0500	1	05/06/2021 03:17	WG1665257
Acenaphthylene	U		0.0171	0.0500	1	05/06/2021 03:17	WG1665257
Benzo(a)anthracene	U		0.0203	0.0500	1	05/06/2021 03:17	WG1665257
Benzo(a)pyrene	U		0.0184	0.0500	1	05/06/2021 03:17	WG1665257
Benzo(b)fluoranthene	U		0.0168	0.0500	1	05/06/2021 03:17	WG1665257
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	05/06/2021 03:17	WG1665257
Benzo(k)fluoranthene	U		0.0202	0.0500	1	05/06/2021 03:17	WG1665257
Chrysene	U		0.0179	0.0500	1	05/06/2021 03:17	WG1665257
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	05/06/2021 03:17	WG1665257
Fluoranthene	U		0.0270	0.100	1	05/06/2021 03:17	WG1665257
Fluorene	U		0.0169	0.0500	1	05/06/2021 03:17	WG1665257
Hexachlorobenzene	U		0.00670	0.0200	1	05/06/2021 03:17	WG1665257
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	05/06/2021 03:17	WG1665257
Naphthalene	U		0.0917	0.250	1	05/06/2021 03:17	WG1665257
Phenanthrene	0.0307	J	0.0180	0.0500	1	05/06/2021 03:17	WG1665257
Pyrene	U		0.0169	0.0500	1	05/06/2021 03:17	WG1665257
1-Methylnaphthalene	U		0.0687	0.250	1	05/06/2021 03:17	WG1665257
2-Methylnaphthalene	U		0.0674	0.250	1	05/06/2021 03:17	WG1665257
2-Chloronaphthalene	U		0.0682	0.250	1	05/06/2021 03:17	WG1665257
(S) Nitrobenzene-d5	*97.4*			*31.0-160*		*05/06/2021 03:17*	WG1665257
(S) 2-Fluorobiphenyl	*82.6*			*48.0-148*		*05/06/2021 03:17*	WG1665257
(S) p-Terphenyl-d14	*94.7*			*37.0-146*		*05/06/2021 03:17*	WG1665257

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cyanide	U		1.80	5.00	1	05/06/2021 21:08	WG1665647

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.152	J	0.100	0.200	1	05/07/2021 11:57	WG1663098

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aluminum	79100		185	1000	10	05/15/2021 00:34	WG1669683
Antimony	1.86	J	1.03	4.00	1	05/15/2021 01:49	WG1669683
Arsenic	61.0		1.80	20.0	10	05/15/2021 00:34	WG1669683
Barium	287		3.81	200	10	05/15/2021 00:34	WG1669683
Beryllium	33.9		1.90	20.0	10	05/15/2021 00:34	WG1669683
Cadmium	1.75	J	1.50	10.0	10	05/15/2021 00:34	WG1669683
Calcium	73000		936	10000	10	05/15/2021 00:34	WG1669683
Chromium	1840		12.4	20.0	10	05/15/2021 00:34	WG1669683
Copper	781		15.1	50.0	10	05/15/2021 00:34	WG1669683
Cobalt	167		0.596	20.0	10	05/15/2021 00:34	WG1669683
Iron	290000		281	1000	10	05/15/2021 00:34	WG1669683
Lead	91.1		8.49	20.0	10	05/15/2021 00:34	WG1669683
Magnesium	20300		735	10000	10	05/15/2021 00:34	WG1669683
Manganese	1720		7.04	50.0	10	05/15/2021 00:34	WG1669683
Nickel	261		8.16	20.0	10	05/15/2021 00:34	WG1669683
Potassium	17000	J	1080	20000	10	05/15/2021 00:34	WG1669683
Selenium	31.6		3.00	20.0	10	05/15/2021 00:34	WG1669683
Silver	1.14	B J	0.700	20.0	10	05/15/2021 00:34	WG1669683
Sodium	18600	J	3760	20000	10	05/15/2021 00:34	WG1669683
Thallium	0.737	J	0.121	2.00	1	05/15/2021 01:49	WG1669683
Vanadium	457		6.64	50.0	10	05/15/2021 00:34	WG1669683
Zinc	474		30.2	250	10	05/15/2021 00:34	WG1669683

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	05/04/2021 22:56	WG1664238
Benzene	0.148	J	0.0941	1.00	1	05/04/2021 22:56	WG1664238
Bromochloromethane	U		0.128	1.00	1	05/04/2021 22:56	WG1664238
Bromodichloromethane	U		0.136	1.00	1	05/04/2021 22:56	WG1664238
Bromoform	U		0.129	1.00	1	05/04/2021 22:56	WG1664238
Bromomethane	U		0.605	5.00	1	05/04/2021 22:56	WG1664238
Carbon disulfide	U		0.0962	1.00	1	05/04/2021 22:56	WG1664238
Carbon tetrachloride	U		0.128	1.00	1	05/04/2021 22:56	WG1664238
Chlorobenzene	U		0.116	1.00	1	05/04/2021 22:56	WG1664238
Chlorodibromomethane	U		0.140	1.00	1	05/04/2021 22:56	WG1664238
Chloroethane	U		0.192	5.00	1	05/04/2021 22:56	WG1664238
Chloroform	5.34		0.111	5.00	1	05/04/2021 22:56	WG1664238
Chloromethane	U		0.960	2.50	1	05/04/2021 22:56	WG1664238
Cyclohexane	U		0.188	1.00	1	05/04/2021 22:56	WG1664238
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	05/04/2021 22:56	WG1664238
1,2-Dibromoethane	U		0.126	1.00	1	05/04/2021 22:56	WG1664238
1,2-Dichlorobenzene	U		0.107	1.00	1	05/04/2021 22:56	WG1664238
1,3-Dichlorobenzene	U		0.110	1.00	1	05/04/2021 22:56	WG1664238

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dichlorobenzene	U		0.120	1.00	1	05/04/2021 22:56	WG1664238
Dichlorodifluoromethane	U		0.374	5.00	1	05/04/2021 22:56	WG1664238
1,1-Dichloroethane	U		0.100	1.00	1	05/04/2021 22:56	WG1664238
1,2-Dichloroethane	U		0.0819	1.00	1	05/04/2021 22:56	WG1664238
1,1-Dichloroethene	U		0.188	1.00	1	05/04/2021 22:56	WG1664238
cis-1,2-Dichloroethene	U		0.126	1.00	1	05/04/2021 22:56	WG1664238
trans-1,2-Dichloroethene	U		0.149	1.00	1	05/04/2021 22:56	WG1664238
1,2-Dichloropropane	U		0.149	1.00	1	05/04/2021 22:56	WG1664238
cis-1,3-Dichloropropene	U		0.111	1.00	1	05/04/2021 22:56	WG1664238
trans-1,3-Dichloropropene	U		0.118	1.00	1	05/04/2021 22:56	WG1664238
Ethylbenzene	U		0.137	1.00	1	05/04/2021 22:56	WG1664238
2-Hexanone	U		0.787	10.0	1	05/04/2021 22:56	WG1664238
Isopropylbenzene	U		0.105	1.00	1	05/04/2021 22:56	WG1664238
2-Butanone (MEK)	1.52	J	1.19	10.0	1	05/04/2021 22:56	WG1664238
Methyl Acetate	U		1.29	20.0	1	05/04/2021 22:56	WG1664238
Methyl Cyclohexane	U		0.660	1.00	1	05/04/2021 22:56	WG1664238
Methylene Chloride	U		0.430	5.00	1	05/04/2021 22:56	WG1664238
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	05/04/2021 22:56	WG1664238
Methyl tert-butyl ether	U		0.101	1.00	1	05/04/2021 22:56	WG1664238
Naphthalene	U		1.00	5.00	1	05/04/2021 22:56	WG1664238
tert-Butyl alcohol	U		4.06	5.00	1	05/04/2021 22:56	WG1664238
Styrene	U		0.118	1.00	1	05/04/2021 22:56	WG1664238
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	05/04/2021 22:56	WG1664238
Tetrachloroethene	U		0.300	1.00	1	05/04/2021 22:56	WG1664238
Toluene	U		0.278	1.00	1	05/04/2021 22:56	WG1664238
1,2,3-Trichlorobenzene	U		0.230	1.00	1	05/04/2021 22:56	WG1664238
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/04/2021 22:56	WG1664238
1,1,1-Trichloroethane	U		0.149	1.00	1	05/04/2021 22:56	WG1664238
1,1,2-Trichloroethane	U		0.158	1.00	1	05/04/2021 22:56	WG1664238
Trichloroethene	U		0.190	1.00	1	05/04/2021 22:56	WG1664238
Trichlorofluoromethane	U		0.160	5.00	1	05/04/2021 22:56	WG1664238
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	05/04/2021 22:56	WG1664238
Vinyl chloride	U	C3	0.234	1.00	1	05/04/2021 22:56	WG1664238
Xylenes, Total	U		0.174	3.00	1	05/04/2021 22:56	WG1664238
(S) Toluene-d8	*103*			*80.0-120*		*05/04/2021 22:56*	WG1664238
(S) 4-Bromofluorobenzene	*91.1*			*77.0-126*		*05/04/2021 22:56*	WG1664238
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*05/04/2021 22:56*	WG1664238

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	7.42	J N	0.000	0.000	1	05/04/2021 22:56	WG1664238		
1-Propene, 2-Methyl-	5.18	J N	0.000	0.000	1	05/04/2021 22:56	WG1664238	000115-11-7	1.84
1-Pentene	2.24	J N	0.000	0.000	1	05/04/2021 22:56	WG1664238	000109-67-1	2.30

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00536	0.0200	1	05/06/2021 16:07	WG1664603
1,2-Dibromo-3-Chloropropane	U		0.00748	0.0200	1	05/06/2021 16:07	WG1664603

Pesticides (GC) by Method 8081B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aldrin	U		0.00813	0.0400	1	05/05/2021 23:07	WG1664121
Alpha BHC	U		0.0166	0.0200	1	05/05/2021 23:07	WG1664121
Beta BHC	U		0.0184	0.0400	1	05/05/2021 23:07	WG1664121
Delta BHC	U		0.0197	0.0500	1	05/05/2021 23:07	WG1664121
Gamma BHC	U		0.0176	0.0300	1	05/05/2021 23:07	WG1664121
Chlordane	U		0.0977	0.500	1	05/05/2021 23:07	WG1664121
4,4-DDD	U		0.0170	0.0500	1	05/05/2021 23:07	WG1664121
4,4-DDE	U		0.0164	0.0500	1	05/05/2021 23:07	WG1664121
4,4-DDT	U		0.0177	0.0500	1	05/05/2021 23:07	WG1664121
Dieldrin	U		0.00751	0.0500	1	05/05/2021 23:07	WG1664121
Endosulfan I	U		0.0179	0.0500	1	05/05/2021 23:07	WG1664121
Endosulfan II	U		0.0176	0.0500	1	05/05/2021 23:07	WG1664121
Endosulfan sulfate	U		0.0196	0.0500	1	05/05/2021 23:07	WG1664121
Endrin	U		0.0189	0.0500	1	05/05/2021 23:07	WG1664121
Endrin aldehyde	U	J4	0.0142	0.0500	1	05/05/2021 23:07	WG1664121
Endrin ketone	U		0.0170	0.0500	1	05/05/2021 23:07	WG1664121
Hexachlorobenzene	U		0.0134	0.0500	1	05/05/2021 23:07	WG1664121
Heptachlor	U		0.0108	0.0500	1	05/05/2021 23:07	WG1664121
Heptachlor epoxide	U		0.0175	0.0500	1	05/05/2021 23:07	WG1664121
Methoxychlor	U		0.0193	0.0500	1	05/05/2021 23:07	WG1664121
Toxaphene	U		0.168	0.500	1	05/05/2021 23:07	WG1664121
(S) Decachlorobiphenyl	*22.0*	J2		*30.0-150*		*05/05/2021 23:07*	WG1664121
(S) Tetrachloro-m-xylene	*76.4*			*30.0-150*		*05/05/2021 23:07*	WG1664121

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
PCB 1016	U		0.100	0.500	1	05/05/2021 16:18	WG1664121
PCB 1221	U		0.0730	0.500	1	05/05/2021 16:18	WG1664121
PCB 1232	U		0.0420	0.500	1	05/05/2021 16:18	WG1664121
PCB 1242	U		0.0470	0.500	1	05/05/2021 16:18	WG1664121
PCB 1248	U		0.0860	0.500	1	05/05/2021 16:18	WG1664121
PCB 1254	U		0.0470	0.500	1	05/05/2021 16:18	WG1664121
PCB 1260	U		0.120	0.500	1	05/05/2021 16:18	WG1664121
Total PCBs	U		0.0420	0.500	1	05/05/2021 16:18	WG1664121
(S) Decachlorobiphenyl	*16.9*	J2		*30.0-150*		*05/05/2021 16:18*	WG1664121
(S) Tetrachloro-m-xylene	*67.3*			*30.0-150*		*05/05/2021 16:18*	WG1664121

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetophenone	U		0.239	11.5	1.15	05/05/2021 22:22	WG1663492
Atrazine	U		0.293	11.5	1.15	05/05/2021 22:22	WG1663492
Benzaldehyde	U	J4	1.94	11.5	1.15	05/05/2021 22:22	WG1663492
Biphenyl	U		0.909	11.5	1.15	05/05/2021 22:22	WG1663492
Bis(2-chlorethoxy)methane	U		0.133	11.5	1.15	05/05/2021 22:22	WG1663492
Bis(2-chloroethyl)ether	U		0.158	11.5	1.15	05/05/2021 22:22	WG1663492
2,2-Oxybis(1-Chloropropane)	U		0.242	11.5	1.15	05/05/2021 22:22	WG1663492
4-Bromophenyl-phenylether	U		0.101	11.5	1.15	05/05/2021 22:22	WG1663492
Caprolactam	U		0.355	11.5	1.15	05/05/2021 22:22	WG1663492
Carbazole	U		0.128	11.5	1.15	05/05/2021 22:22	WG1663492
4-Chloroaniline	U	J4	0.269	11.5	1.15	05/05/2021 22:22	WG1663492
4-Chlorophenyl-phenylether	U		0.106	11.5	1.15	05/05/2021 22:22	WG1663492
Dibenzofuran	U		0.112	11.5	1.15	05/05/2021 22:22	WG1663492
3,3-Dichlorobenzidine	U		0.244	11.5	1.15	05/05/2021 22:22	WG1663492

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
2,4-Dinitrotoluene	U		0.113	11.5	1.15	05/05/2021 22:22	WG1663492
2,6-Dinitrotoluene	U		0.288	11.5	1.15	05/05/2021 22:22	WG1663492
Hexachloro-1,3-butadiene	U		0.111	11.5	1.15	05/05/2021 22:22	WG1663492
Hexachlorocyclopentadiene	U		0.0688	11.5	1.15	05/05/2021 22:22	WG1663492
Hexachloroethane	U		0.146	11.5	1.15	05/05/2021 22:22	WG1663492
Isophorone	U		0.164	11.5	1.15	05/05/2021 22:22	WG1663492
2-Nitroaniline	U		0.117	11.5	1.15	05/05/2021 22:22	WG1663492
3-Nitroaniline	U		0.0999	11.5	1.15	05/05/2021 22:22	WG1663492
4-Nitroaniline	U		0.105	11.5	1.15	05/05/2021 22:22	WG1663492
Nitrobenzene	U		0.342	11.5	1.15	05/05/2021 22:22	WG1663492
n-Nitrosodiphenylamine	U		2.73	11.5	1.15	05/05/2021 22:22	WG1663492
n-Nitrosodi-n-propylamine	U		0.300	11.5	1.15	05/05/2021 22:22	WG1663492
Benzylbutyl phthalate	U		0.880	3.45	1.15	05/05/2021 22:22	WG1663492
Bis(2-ethylhexyl)phthalate	U		1.03	3.45	1.15	05/05/2021 22:22	WG1663492
Di-n-butyl phthalate	U		0.521	3.45	1.15	05/05/2021 22:22	WG1663492
Diethyl phthalate	U		0.330	3.45	1.15	05/05/2021 22:22	WG1663492
Dimethyl phthalate	U		0.299	3.45	1.15	05/05/2021 22:22	WG1663492
Di-n-octyl phthalate	U		1.07	3.45	1.15	05/05/2021 22:22	WG1663492
1,2,4,5-Tetrachlorobenzene	U		0.0744	11.5	1.15	05/05/2021 22:22	WG1663492
4-Chloro-3-methylphenol	U	J4	0.151	11.5	1.15	05/05/2021 22:22	WG1663492
2-Chlorophenol	U	J4	0.153	11.5	1.15	05/05/2021 22:22	WG1663492
2-Methylphenol	U	J4	0.107	11.5	1.15	05/05/2021 22:22	WG1663492
3&4-Methyl Phenol	U		0.193	11.5	1.15	05/05/2021 22:22	WG1663492
2,4-Dichlorophenol	0.154	J	0.117	11.5	1.15	05/05/2021 22:22	WG1663492
2,4-Dimethylphenol	U	J4	0.0731	11.5	1.15	05/05/2021 22:22	WG1663492
4,6-Dinitro-2-methylphenol	U		1.29	11.5	1.15	05/05/2021 22:22	WG1663492
2,4-Dinitrophenol	U		6.82	11.5	1.15	05/05/2021 22:22	WG1663492
2-Nitrophenol	U		0.135	11.5	1.15	05/05/2021 22:22	WG1663492
4-Nitrophenol	U		0.164	11.5	1.15	05/06/2021 15:49	WG1663492
Pentachlorophenol	U		0.360	11.5	1.15	05/05/2021 22:22	WG1663492
Phenol	U		4.98	11.5	1.15	05/05/2021 22:22	WG1663492
2,4,5-Trichlorophenol	U		0.125	11.5	1.15	05/05/2021 22:22	WG1663492
2,4,6-Trichlorophenol	U		0.115	11.5	1.15	05/05/2021 22:22	WG1663492
(S) 2-Fluorophenol	*57.0*			*15.0-110*		*05/06/2021 15:49*	WG1663492
(S) 2-Fluorophenol	*57.4*			*15.0-110*		*05/05/2021 22:22*	WG1663492
(S) Phenol-d5	*37.9*			*15.0-110*		*05/05/2021 22:22*	WG1663492
(S) Phenol-d5	*38.3*			*15.0-110*		*05/06/2021 15:49*	WG1663492
(S) Nitrobenzene-d5	*86.3*			*30.0-130*		*05/06/2021 15:49*	WG1663492
(S) Nitrobenzene-d5	*85.6*			*30.0-130*		*05/05/2021 22:22*	WG1663492
(S) 2-Fluorobiphenyl	*98.3*			*30.0-130*		*05/06/2021 15:49*	WG1663492
(S) 2-Fluorobiphenyl	*102*			*30.0-130*		*05/05/2021 22:22*	WG1663492
(S) 2,4,6-Tribromophenol	*99.1*			*15.0-110*		*05/05/2021 22:22*	WG1663492
(S) 2,4,6-Tribromophenol	*104*			*15.0-110*		*05/06/2021 15:49*	WG1663492
(S) p-Terphenyl-d14	*91.3*			*30.0-130*		*05/05/2021 22:22*	WG1663492
(S) p-Terphenyl-d14	*93.0*			*30.0-130*		*05/06/2021 15:49*	WG1663492

Sample Narrative:

L1346268-27 WG1663492: Dilution due to sample volume.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	CAS #	RT
	ug/l		ug/l	ug/l		date / time			
Total Tic	0.000		0.000	0.000	1.15	05/06/2021 15:49	WG1663492		
Total Tic	10.2	J N	0.000	0.000	1.15	05/05/2021 22:22	WG1663492		
Carbon Tetrachloride	10.2	J N	0.000	0.000	1.15	05/05/2021 22:22	WG1663492	000056-23-5	1.63

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	CAS #	RT
	ug/l		ug/l	ug/l		date / time			

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Anthracene	U		0.0190	0.0500	1	05/06/2021 03:37	WG1665257
Acenaphthene	U		0.0190	0.0500	1	05/06/2021 03:37	WG1665257
Acenaphthylene	U		0.0171	0.0500	1	05/06/2021 03:37	WG1665257
Benzo(a)anthracene	U		0.0203	0.0500	1	05/06/2021 03:37	WG1665257
Benzo(a)pyrene	U		0.0184	0.0500	1	05/06/2021 03:37	WG1665257
Benzo(b)fluoranthene	U		0.0168	0.0500	1	05/06/2021 03:37	WG1665257
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	05/06/2021 03:37	WG1665257
Benzo(k)fluoranthene	U		0.0202	0.0500	1	05/06/2021 03:37	WG1665257
Chrysene	U		0.0179	0.0500	1	05/06/2021 03:37	WG1665257
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	05/06/2021 03:37	WG1665257
Fluoranthene	U		0.0270	0.100	1	05/06/2021 03:37	WG1665257
Fluorene	U		0.0169	0.0500	1	05/06/2021 03:37	WG1665257
Hexachlorobenzene	U		0.00670	0.0200	1	05/06/2021 03:37	WG1665257
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	05/06/2021 03:37	WG1665257
Naphthalene	U		0.0917	0.250	1	05/06/2021 03:37	WG1665257
Phenanthrene	0.0355	J	0.0180	0.0500	1	05/06/2021 03:37	WG1665257
Pyrene	U		0.0169	0.0500	1	05/06/2021 03:37	WG1665257
1-Methylnaphthalene	U		0.0687	0.250	1	05/06/2021 03:37	WG1665257
2-Methylnaphthalene	U		0.0674	0.250	1	05/06/2021 03:37	WG1665257
2-Chloronaphthalene	U		0.0682	0.250	1	05/06/2021 03:37	WG1665257
(S) Nitrobenzene-d5	*97.9*			*31.0-160*		*05/06/2021 03:37*	WG1665257
(S) 2-Fluorobiphenyl	*82.6*			*48.0-148*		*05/06/2021 03:37*	WG1665257
(S) p-Terphenyl-d14	*92.1*			*37.0-146*		*05/06/2021 03:37*	WG1665257

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cyanide	U		1.80	5.00	1	05/06/2021 21:09	WG1665647

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.100	0.200	1	05/07/2021 11:59	WG1663098

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aluminum	56700		185	1000	10	05/15/2021 00:37	WG1669683
Antimony	1.97	J	1.03	4.00	1	05/15/2021 01:53	WG1669683
Arsenic	20.8		1.80	20.0	10	05/15/2021 00:37	WG1669683
Barium	565		3.81	200	10	05/15/2021 00:37	WG1669683
Beryllium	7.66	J	1.90	20.0	10	05/15/2021 00:37	WG1669683
Cadmium	1.82	J	1.50	10.0	10	05/15/2021 00:37	WG1669683
Calcium	61300		936	10000	10	05/15/2021 00:37	WG1669683
Chromium	1260		12.4	20.0	10	05/15/2021 00:37	WG1669683
Copper	354		15.1	50.0	10	05/15/2021 00:37	WG1669683
Cobalt	50.6		0.596	20.0	10	05/15/2021 00:37	WG1669683
Iron	166000		281	1000	10	05/15/2021 00:37	WG1669683
Lead	84.6		8.49	20.0	10	05/15/2021 00:37	WG1669683
Magnesium	13100		735	10000	10	05/15/2021 00:37	WG1669683
Manganese	1060		7.04	50.0	10	05/15/2021 00:37	WG1669683
Nickel	202		8.16	20.0	10	05/15/2021 00:37	WG1669683
Potassium	10200	J	1080	20000	10	05/15/2021 00:37	WG1669683
Selenium	14.9	J	3.00	20.0	10	05/15/2021 00:37	WG1669683
Silver	0.720	B J	0.0700	2.00	1	05/15/2021 01:53	WG1669683
Sodium	14600	J	3760	20000	10	05/15/2021 00:37	WG1669683
Thallium	0.339	J	0.121	2.00	1	05/15/2021 01:53	WG1669683
Vanadium	203		6.64	50.0	10	05/15/2021 00:37	WG1669683
Zinc	429		30.2	250	10	05/15/2021 00:37	WG1669683

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	05/04/2021 23:16	WG1664238
Benzene	U		0.0941	1.00	1	05/04/2021 23:16	WG1664238
Bromochloromethane	U		0.128	1.00	1	05/04/2021 23:16	WG1664238
Bromodichloromethane	U		0.136	1.00	1	05/04/2021 23:16	WG1664238
Bromoform	U		0.129	1.00	1	05/04/2021 23:16	WG1664238
Bromomethane	U		0.605	5.00	1	05/04/2021 23:16	WG1664238
Carbon disulfide	U		0.0962	1.00	1	05/04/2021 23:16	WG1664238
Carbon tetrachloride	U		0.128	1.00	1	05/04/2021 23:16	WG1664238
Chlorobenzene	U		0.116	1.00	1	05/04/2021 23:16	WG1664238
Chlorodibromomethane	U		0.140	1.00	1	05/04/2021 23:16	WG1664238
Chloroethane	U		0.192	5.00	1	05/04/2021 23:16	WG1664238
Chloroform	8.28		0.111	5.00	1	05/04/2021 23:16	WG1664238
Chloromethane	U		0.960	2.50	1	05/04/2021 23:16	WG1664238
Cyclohexane	U		0.188	1.00	1	05/04/2021 23:16	WG1664238
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	05/04/2021 23:16	WG1664238
1,2-Dibromoethane	U		0.126	1.00	1	05/04/2021 23:16	WG1664238
1,2-Dichlorobenzene	U		0.107	1.00	1	05/04/2021 23:16	WG1664238
1,3-Dichlorobenzene	U		0.110	1.00	1	05/04/2021 23:16	WG1664238

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dichlorobenzene	U		0.120	1.00	1	05/04/2021 23:16	WG1664238
Dichlorodifluoromethane	U		0.374	5.00	1	05/04/2021 23:16	WG1664238
1,1-Dichloroethane	U		0.100	1.00	1	05/04/2021 23:16	WG1664238
1,2-Dichloroethane	U		0.0819	1.00	1	05/04/2021 23:16	WG1664238
1,1-Dichloroethene	U		0.188	1.00	1	05/04/2021 23:16	WG1664238
cis-1,2-Dichloroethene	U		0.126	1.00	1	05/04/2021 23:16	WG1664238
trans-1,2-Dichloroethene	U		0.149	1.00	1	05/04/2021 23:16	WG1664238
1,2-Dichloropropane	U		0.149	1.00	1	05/04/2021 23:16	WG1664238
cis-1,3-Dichloropropene	U		0.111	1.00	1	05/04/2021 23:16	WG1664238
trans-1,3-Dichloropropene	U		0.118	1.00	1	05/04/2021 23:16	WG1664238
Ethylbenzene	U		0.137	1.00	1	05/04/2021 23:16	WG1664238
2-Hexanone	U		0.787	10.0	1	05/04/2021 23:16	WG1664238
Isopropylbenzene	U		0.105	1.00	1	05/04/2021 23:16	WG1664238
2-Butanone (MEK)	U		1.19	10.0	1	05/04/2021 23:16	WG1664238
Methyl Acetate	U		1.29	20.0	1	05/04/2021 23:16	WG1664238
Methyl Cyclohexane	U		0.660	1.00	1	05/04/2021 23:16	WG1664238
Methylene Chloride	U		0.430	5.00	1	05/04/2021 23:16	WG1664238
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	05/04/2021 23:16	WG1664238
Methyl tert-butyl ether	U		0.101	1.00	1	05/04/2021 23:16	WG1664238
Naphthalene	U		1.00	5.00	1	05/04/2021 23:16	WG1664238
tert-Butyl alcohol	U		4.06	5.00	1	05/04/2021 23:16	WG1664238
Styrene	U		0.118	1.00	1	05/04/2021 23:16	WG1664238
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	05/04/2021 23:16	WG1664238
Tetrachloroethene	U		0.300	1.00	1	05/04/2021 23:16	WG1664238
Toluene	U		0.278	1.00	1	05/04/2021 23:16	WG1664238
1,2,3-Trichlorobenzene	U		0.230	1.00	1	05/04/2021 23:16	WG1664238
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/04/2021 23:16	WG1664238
1,1,1-Trichloroethane	U		0.149	1.00	1	05/04/2021 23:16	WG1664238
1,1,2-Trichloroethane	U		0.158	1.00	1	05/04/2021 23:16	WG1664238
Trichloroethene	U		0.190	1.00	1	05/04/2021 23:16	WG1664238
Trichlorofluoromethane	U		0.160	5.00	1	05/04/2021 23:16	WG1664238
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	05/04/2021 23:16	WG1664238
Vinyl chloride	U	C3	0.234	1.00	1	05/04/2021 23:16	WG1664238
Xylenes, Total	U		0.174	3.00	1	05/04/2021 23:16	WG1664238
(S) Toluene-d8	*107*			*80.0-120*		*05/04/2021 23:16*	WG1664238
(S) 4-Bromofluorobenzene	*91.1*			*77.0-126*		*05/04/2021 23:16*	WG1664238
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*05/04/2021 23:16*	WG1664238

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	2.68	J N	0.000	0.000	1	05/04/2021 23:16	WG1664238		
1-Propene, 2-Methyl-	2.68	J N	0.000	0.000	1	05/04/2021 23:16	WG1664238	000115-11-7	1.84

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00536	0.0200	1	05/06/2021 16:19	WG1664603
1,2-Dibromo-3-Chloropropane	U		0.00748	0.0200	1	05/06/2021 16:19	WG1664603

Pesticides (GC) by Method 8081B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Aldrin	U		0.00813	0.0400	1	05/05/2021 23:19	WG1664121
Alpha BHC	U		0.0166	0.0200	1	05/05/2021 23:19	WG1664121
Beta BHC	U		0.0184	0.0400	1	05/05/2021 23:19	WG1664121
Delta BHC	U		0.0197	0.0500	1	05/05/2021 23:19	WG1664121
Gamma BHC	U		0.0176	0.0300	1	05/05/2021 23:19	WG1664121
Chlordane	U		0.0977	0.500	1	05/05/2021 23:19	WG1664121
4,4-DDD	U		0.0170	0.0500	1	05/05/2021 23:19	WG1664121
4,4-DDE	U		0.0164	0.0500	1	05/05/2021 23:19	WG1664121
4,4-DDT	U		0.0177	0.0500	1	05/05/2021 23:19	WG1664121
Dieldrin	U		0.00751	0.0500	1	05/05/2021 23:19	WG1664121
Endosulfan I	U		0.0179	0.0500	1	05/05/2021 23:19	WG1664121
Endosulfan II	U		0.0176	0.0500	1	05/05/2021 23:19	WG1664121
Endosulfan sulfate	U		0.0196	0.0500	1	05/05/2021 23:19	WG1664121
Endrin	U		0.0189	0.0500	1	05/05/2021 23:19	WG1664121
Endrin aldehyde	U	J4	0.0142	0.0500	1	05/05/2021 23:19	WG1664121
Endrin ketone	U		0.0170	0.0500	1	05/05/2021 23:19	WG1664121
Hexachlorobenzene	U		0.0134	0.0500	1	05/05/2021 23:19	WG1664121
Heptachlor	U		0.0108	0.0500	1	05/05/2021 23:19	WG1664121
Heptachlor epoxide	U		0.0175	0.0500	1	05/05/2021 23:19	WG1664121
Methoxychlor	U		0.0193	0.0500	1	05/05/2021 23:19	WG1664121
Toxaphene	U		0.168	0.500	1	05/05/2021 23:19	WG1664121
(S) Decachlorobiphenyl	*13.4*	J2		*30.0-150*		*05/05/2021 23:19*	WG1664121
(S) Tetrachloro-m-xylene	*75.5*			*30.0-150*		*05/05/2021 23:19*	WG1664121

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
PCB 1016	U		0.100	0.500	1	05/05/2021 16:30	WG1664121
PCB 1221	U		0.0730	0.500	1	05/05/2021 16:30	WG1664121
PCB 1232	U		0.0420	0.500	1	05/05/2021 16:30	WG1664121
PCB 1242	U		0.0470	0.500	1	05/05/2021 16:30	WG1664121
PCB 1248	U		0.0860	0.500	1	05/05/2021 16:30	WG1664121
PCB 1254	U		0.0470	0.500	1	05/05/2021 16:30	WG1664121
PCB 1260	U		0.120	0.500	1	05/05/2021 16:30	WG1664121
Total PCBs	U		0.0420	0.500	1	05/05/2021 16:30	WG1664121
(S) Decachlorobiphenyl	*12.9*	J2		*30.0-150*		*05/05/2021 16:30*	WG1664121
(S) Tetrachloro-m-xylene	*72.8*			*30.0-150*		*05/05/2021 16:30*	WG1664121

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetophenone	U		0.208	10.0	1	05/05/2021 22:43	WG1663492
Atrazine	U		0.255	10.0	1	05/05/2021 22:43	WG1663492
Benzaldehyde	U	J4	1.69	10.0	1	05/05/2021 22:43	WG1663492
Biphenyl	U		0.790	10.0	1	05/05/2021 22:43	WG1663492
Bis(2-chlorethoxy)methane	U		0.116	10.0	1	05/05/2021 22:43	WG1663492
Bis(2-chloroethyl)ether	U		0.137	10.0	1	05/05/2021 22:43	WG1663492
2,2-Oxybis(1-Chloropropane)	U		0.210	10.0	1	05/05/2021 22:43	WG1663492
4-Bromophenyl-phenylether	U		0.0877	10.0	1	05/05/2021 22:43	WG1663492
Caprolactam	U		0.309	10.0	1	05/05/2021 22:43	WG1663492
Carbazole	U		0.111	10.0	1	05/05/2021 22:43	WG1663492
4-Chloroaniline	U	J4	0.234	10.0	1	05/05/2021 22:43	WG1663492
4-Chlorophenyl-phenylether	U		0.0926	10.0	1	05/05/2021 22:43	WG1663492
Dibenzofuran	U		0.0970	10.0	1	05/05/2021 22:43	WG1663492
3,3-Dichlorobenzidine	U		0.212	10.0	1	05/05/2021 22:43	WG1663492

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
2,4-Dinitrotoluene	U		0.0983	10.0	1	05/05/2021 22:43	WG1663492
2,6-Dinitrotoluene	U		0.250	10.0	1	05/05/2021 22:43	WG1663492
Hexachloro-1,3-butadiene	U		0.0968	10.0	1	05/05/2021 22:43	WG1663492
Hexachlorocyclopentadiene	U		0.0598	10.0	1	05/05/2021 22:43	WG1663492
Hexachloroethane	U		0.127	10.0	1	05/05/2021 22:43	WG1663492
Isophorone	U		0.143	10.0	1	05/05/2021 22:43	WG1663492
2-Nitroaniline	U		0.102	10.0	1	05/05/2021 22:43	WG1663492
3-Nitroaniline	U		0.0869	10.0	1	05/05/2021 22:43	WG1663492
4-Nitroaniline	U		0.0910	10.0	1	05/05/2021 22:43	WG1663492
Nitrobenzene	U		0.297	10.0	1	05/05/2021 22:43	WG1663492
n-Nitrosodiphenylamine	U		2.37	10.0	1	05/05/2021 22:43	WG1663492
n-Nitrosodi-n-propylamine	U		0.261	10.0	1	05/05/2021 22:43	WG1663492
Benzylbutyl phthalate	U		0.765	3.00	1	05/05/2021 22:43	WG1663492
Bis(2-ethylhexyl)phthalate	U		0.895	3.00	1	05/05/2021 22:43	WG1663492
Di-n-butyl phthalate	U		0.453	3.00	1	05/05/2021 22:43	WG1663492
Diethyl phthalate	U		0.287	3.00	1	05/05/2021 22:43	WG1663492
Dimethyl phthalate	U		0.260	3.00	1	05/05/2021 22:43	WG1663492
Di-n-octyl phthalate	U		0.932	3.00	1	05/05/2021 22:43	WG1663492
1,2,4,5-Tetrachlorobenzene	U		0.0647	10.0	1	05/05/2021 22:43	WG1663492
4-Chloro-3-methylphenol	U	J4	0.131	10.0	1	05/05/2021 22:43	WG1663492
2-Chlorophenol	U	J4	0.133	10.0	1	05/05/2021 22:43	WG1663492
2-Methylphenol	U	J4	0.0929	10.0	1	05/05/2021 22:43	WG1663492
3&4-Methyl Phenol	U		0.168	10.0	1	05/05/2021 22:43	WG1663492
2,4-Dichlorophenol	U		0.102	10.0	1	05/05/2021 22:43	WG1663492
2,4-Dimethylphenol	U	J4	0.0636	10.0	1	05/05/2021 22:43	WG1663492
4,6-Dinitro-2-methylphenol	U		1.12	10.0	1	05/05/2021 22:43	WG1663492
2,4-Dinitrophenol	U		5.93	10.0	1	05/05/2021 22:43	WG1663492
2-Nitrophenol	U		0.117	10.0	1	05/05/2021 22:43	WG1663492
4-Nitrophenol	U		0.143	10.0	1	05/06/2021 16:10	WG1663492
Pentachlorophenol	U		0.313	10.0	1	05/05/2021 22:43	WG1663492
Phenol	U		4.33	10.0	1	05/05/2021 22:43	WG1663492
2,4,5-Trichlorophenol	U		0.109	10.0	1	05/05/2021 22:43	WG1663492
2,4,6-Trichlorophenol	U		0.100	10.0	1	05/05/2021 22:43	WG1663492
(S) 2-Fluorophenol	*37.6*			*15.0-110*		*05/05/2021 22:43*	WG1663492
(S) 2-Fluorophenol	*38.0*			*15.0-110*		*05/06/2021 16:10*	WG1663492
(S) Phenol-d5	*27.7*			*15.0-110*		*05/05/2021 22:43*	WG1663492
(S) Phenol-d5	*27.7*			*15.0-110*		*05/06/2021 16:10*	WG1663492
(S) Nitrobenzene-d5	*78.0*			*30.0-130*		*05/06/2021 16:10*	WG1663492
(S) Nitrobenzene-d5	*78.2*			*30.0-130*		*05/05/2021 22:43*	WG1663492
(S) 2-Fluorobiphenyl	*93.8*			*30.0-130*		*05/05/2021 22:43*	WG1663492
(S) 2-Fluorobiphenyl	*93.8*			*30.0-130*		*05/06/2021 16:10*	WG1663492
(S) 2,4,6-Tribromophenol	*87.9*			*15.0-110*		*05/06/2021 16:10*	WG1663492
(S) 2,4,6-Tribromophenol	*89.0*			*15.0-110*		*05/05/2021 22:43*	WG1663492
(S) p-Terphenyl-d14	*89.3*			*30.0-130*		*05/06/2021 16:10*	WG1663492
(S) p-Terphenyl-d14	*87.7*			*30.0-130*		*05/05/2021 22:43*	WG1663492

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	CAS #	RT
	ug/l		ug/l	ug/l		date / time			
Total Tic	0.000		0.000	0.000	1	05/06/2021 16:10	WG1663492		
Total Tic	7.77	J N	0.000	0.000	1	05/05/2021 22:43	WG1663492		
Unknown-01	7.77	J N	0.000	0.000	1	05/05/2021 22:43	WG1663492	000056-23-5	1.63

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Anthracene	U		0.0190	0.0500	1	05/06/2021 03:57	WG1665257
Acenaphthene	U		0.0190	0.0500	1	05/06/2021 03:57	WG1665257
Acenaphthylene	U		0.0171	0.0500	1	05/06/2021 03:57	WG1665257
Benzo(a)anthracene	U		0.0203	0.0500	1	05/06/2021 03:57	WG1665257
Benzo(a)pyrene	U		0.0184	0.0500	1	05/06/2021 03:57	WG1665257
Benzo(b)fluoranthene	U		0.0168	0.0500	1	05/06/2021 03:57	WG1665257
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	05/06/2021 03:57	WG1665257
Benzo(k)fluoranthene	U		0.0202	0.0500	1	05/06/2021 03:57	WG1665257
Chrysene	U		0.0179	0.0500	1	05/06/2021 03:57	WG1665257
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	05/06/2021 03:57	WG1665257
Fluoranthene	U		0.0270	0.100	1	05/06/2021 03:57	WG1665257
Fluorene	U		0.0169	0.0500	1	05/06/2021 03:57	WG1665257
Hexachlorobenzene	U		0.00670	0.0200	1	05/06/2021 03:57	WG1665257
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	05/06/2021 03:57	WG1665257
Naphthalene	U		0.0917	0.250	1	05/06/2021 03:57	WG1665257
Phenanthrene	0.0209	J	0.0180	0.0500	1	05/06/2021 03:57	WG1665257
Pyrene	U		0.0169	0.0500	1	05/06/2021 03:57	WG1665257
1-Methylnaphthalene	U		0.0687	0.250	1	05/06/2021 03:57	WG1665257
2-Methylnaphthalene	U		0.0674	0.250	1	05/06/2021 03:57	WG1665257
2-Chloronaphthalene	U		0.0682	0.250	1	05/06/2021 03:57	WG1665257
(S) Nitrobenzene-d5	*101*			*31.0-160*		*05/06/2021 03:57*	WG1665257
(S) 2-Fluorobiphenyl	*87.9*			*48.0-148*		*05/06/2021 03:57*	WG1665257
(S) p-Terphenyl-d14	*97.4*			*37.0-146*		*05/06/2021 03:57*	WG1665257

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cyanide	U		1.80	5.00	1	05/06/2021 21:10	WG1665647

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.100	0.200	1	05/07/2021 12:01	WG1663098

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aluminum	73300		185	1000	10	05/15/2021 00:41	WG1669683
Antimony	U		1.03	4.00	1	05/15/2021 01:56	WG1669683
Arsenic	45.2		1.80	20.0	10	05/15/2021 00:41	WG1669683
Barium	212		3.81	200	10	05/15/2021 00:41	WG1669683
Beryllium	29.6		1.90	20.0	10	05/15/2021 00:41	WG1669683
Cadmium	1.01		0.150	1.00	1	05/15/2021 01:56	WG1669683
Calcium	69400		936	10000	10	05/15/2021 00:41	WG1669683
Chromium	885		12.4	20.0	10	05/15/2021 00:41	WG1669683
Copper	495		15.1	50.0	10	05/15/2021 00:41	WG1669683
Cobalt	164		0.596	20.0	10	05/15/2021 00:41	WG1669683
Iron	208000		281	1000	10	05/15/2021 00:41	WG1669683
Lead	63.1		8.49	20.0	10	05/15/2021 00:41	WG1669683
Magnesium	20000		735	10000	10	05/15/2021 00:41	WG1669683
Manganese	1300		7.04	50.0	10	05/15/2021 00:41	WG1669683
Nickel	150		8.16	20.0	10	05/15/2021 00:41	WG1669683
Potassium	13400	J	1080	20000	10	05/15/2021 00:41	WG1669683
Selenium	24.6		3.00	20.0	10	05/15/2021 00:41	WG1669683
Silver	0.609	B J	0.0700	2.00	1	05/15/2021 01:56	WG1669683
Sodium	23200		3760	20000	10	05/15/2021 00:41	WG1669683
Thallium	0.739	J	0.121	2.00	1	05/15/2021 01:56	WG1669683
Vanadium	394		6.64	50.0	10	05/15/2021 00:41	WG1669683
Zinc	414		30.2	250	10	05/15/2021 00:41	WG1669683

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	05/04/2021 23:37	WG1664238
Benzene	U		0.0941	1.00	1	05/04/2021 23:37	WG1664238
Bromochloromethane	U		0.128	1.00	1	05/04/2021 23:37	WG1664238
Bromodichloromethane	U		0.136	1.00	1	05/04/2021 23:37	WG1664238
Bromoform	U		0.129	1.00	1	05/04/2021 23:37	WG1664238
Bromomethane	U		0.605	5.00	1	05/04/2021 23:37	WG1664238
Carbon disulfide	U		0.0962	1.00	1	05/04/2021 23:37	WG1664238
Carbon tetrachloride	U		0.128	1.00	1	05/04/2021 23:37	WG1664238
Chlorobenzene	U		0.116	1.00	1	05/04/2021 23:37	WG1664238
Chlorodibromomethane	U		0.140	1.00	1	05/04/2021 23:37	WG1664238
Chloroethane	U		0.192	5.00	1	05/04/2021 23:37	WG1664238
Chloroform	3.19	J	0.111	5.00	1	05/04/2021 23:37	WG1664238
Chloromethane	U		0.960	2.50	1	05/04/2021 23:37	WG1664238
Cyclohexane	U		0.188	1.00	1	05/04/2021 23:37	WG1664238
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	05/04/2021 23:37	WG1664238
1,2-Dibromoethane	U		0.126	1.00	1	05/04/2021 23:37	WG1664238
1,2-Dichlorobenzene	U		0.107	1.00	1	05/04/2021 23:37	WG1664238
1,3-Dichlorobenzene	U		0.110	1.00	1	05/04/2021 23:37	WG1664238

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,4-Dichlorobenzene	U		0.120	1.00	1	05/04/2021 23:37	WG1664238
Dichlorodifluoromethane	U		0.374	5.00	1	05/04/2021 23:37	WG1664238
1,1-Dichloroethane	U		0.100	1.00	1	05/04/2021 23:37	WG1664238
1,2-Dichloroethane	U		0.0819	1.00	1	05/04/2021 23:37	WG1664238
1,1-Dichloroethene	U		0.188	1.00	1	05/04/2021 23:37	WG1664238
cis-1,2-Dichloroethene	U		0.126	1.00	1	05/04/2021 23:37	WG1664238
trans-1,2-Dichloroethene	U		0.149	1.00	1	05/04/2021 23:37	WG1664238
1,2-Dichloropropane	U		0.149	1.00	1	05/04/2021 23:37	WG1664238
cis-1,3-Dichloropropene	U		0.111	1.00	1	05/04/2021 23:37	WG1664238
trans-1,3-Dichloropropene	U		0.118	1.00	1	05/04/2021 23:37	WG1664238
Ethylbenzene	U		0.137	1.00	1	05/04/2021 23:37	WG1664238
2-Hexanone	U		0.787	10.0	1	05/04/2021 23:37	WG1664238
Isopropylbenzene	U		0.105	1.00	1	05/04/2021 23:37	WG1664238
2-Butanone (MEK)	U		1.19	10.0	1	05/04/2021 23:37	WG1664238
Methyl Acetate	U		1.29	20.0	1	05/04/2021 23:37	WG1664238
Methyl Cyclohexane	U		0.660	1.00	1	05/04/2021 23:37	WG1664238
Methylene Chloride	U		0.430	5.00	1	05/04/2021 23:37	WG1664238
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	05/04/2021 23:37	WG1664238
Methyl tert-butyl ether	U		0.101	1.00	1	05/04/2021 23:37	WG1664238
Naphthalene	U		1.00	5.00	1	05/04/2021 23:37	WG1664238
tert-Butyl alcohol	U		4.06	5.00	1	05/04/2021 23:37	WG1664238
Styrene	U		0.118	1.00	1	05/04/2021 23:37	WG1664238
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	05/04/2021 23:37	WG1664238
Tetrachloroethene	U		0.300	1.00	1	05/04/2021 23:37	WG1664238
Toluene	U		0.278	1.00	1	05/04/2021 23:37	WG1664238
1,2,3-Trichlorobenzene	U		0.230	1.00	1	05/04/2021 23:37	WG1664238
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/04/2021 23:37	WG1664238
1,1,1-Trichloroethane	U		0.149	1.00	1	05/04/2021 23:37	WG1664238
1,1,2-Trichloroethane	U		0.158	1.00	1	05/04/2021 23:37	WG1664238
Trichloroethene	U		0.190	1.00	1	05/04/2021 23:37	WG1664238
Trichlorofluoromethane	U		0.160	5.00	1	05/04/2021 23:37	WG1664238
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	05/04/2021 23:37	WG1664238
Vinyl chloride	U	C3	0.234	1.00	1	05/04/2021 23:37	WG1664238
Xylenes, Total	U		0.174	3.00	1	05/04/2021 23:37	WG1664238
(S) Toluene-d8	*105*			*80.0-120*		*05/04/2021 23:37*	WG1664238
(S) 4-Bromofluorobenzene	*96.5*			*77.0-126*		*05/04/2021 23:37*	WG1664238
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*		*05/04/2021 23:37*	WG1664238

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	CAS #	RT
	ug/l		ug/l	ug/l		date / time			
Total Tic	0.000		0.000	0.000	1	05/04/2021 23:37	WG1664238		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	05/06/2021 16:31	WG1664603
1,2-Dibromo-3-Chloropropane	U		0.00748	0.0200	1	05/06/2021 16:31	WG1664603

Pesticides (GC) by Method 8081B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aldrin	U		0.00813	0.0400	1	05/05/2021 23:32	WG1664121
Alpha BHC	U		0.0166	0.0200	1	05/05/2021 23:32	WG1664121
Beta BHC	U		0.0184	0.0400	1	05/05/2021 23:32	WG1664121
Delta BHC	U		0.0197	0.0500	1	05/05/2021 23:32	WG1664121
Gamma BHC	U		0.0176	0.0300	1	05/05/2021 23:32	WG1664121
Chlordane	U		0.0977	0.500	1	05/05/2021 23:32	WG1664121
4,4-DDD	U		0.0170	0.0500	1	05/05/2021 23:32	WG1664121
4,4-DDE	U		0.0164	0.0500	1	05/05/2021 23:32	WG1664121
4,4-DDT	U		0.0177	0.0500	1	05/05/2021 23:32	WG1664121
Dieldrin	U		0.00751	0.0500	1	05/05/2021 23:32	WG1664121
Endosulfan I	U		0.0179	0.0500	1	05/05/2021 23:32	WG1664121
Endosulfan II	U		0.0176	0.0500	1	05/05/2021 23:32	WG1664121
Endosulfan sulfate	U		0.0196	0.0500	1	05/05/2021 23:32	WG1664121
Endrin	U		0.0189	0.0500	1	05/05/2021 23:32	WG1664121
Endrin aldehyde	U	J4	0.0142	0.0500	1	05/05/2021 23:32	WG1664121
Endrin ketone	U		0.0170	0.0500	1	05/05/2021 23:32	WG1664121
Hexachlorobenzene	U		0.0134	0.0500	1	05/05/2021 23:32	WG1664121
Heptachlor	U		0.0108	0.0500	1	05/05/2021 23:32	WG1664121
Heptachlor epoxide	U		0.0175	0.0500	1	05/05/2021 23:32	WG1664121
Methoxychlor	U		0.0193	0.0500	1	05/05/2021 23:32	WG1664121
Toxaphene	U		0.168	0.500	1	05/05/2021 23:32	WG1664121
(S) Decachlorobiphenyl	*16.6*	J2		*30.0-150*		*05/05/2021 23:32*	WG1664121
(S) Tetrachloro-m-xylene	*65.8*			*30.0-150*		*05/05/2021 23:32*	WG1664121

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
PCB 1016	U		0.100	0.500	1	05/05/2021 16:42	WG1664121
PCB 1221	U		0.0730	0.500	1	05/05/2021 16:42	WG1664121
PCB 1232	U		0.0420	0.500	1	05/05/2021 16:42	WG1664121
PCB 1242	U		0.0470	0.500	1	05/05/2021 16:42	WG1664121
PCB 1248	U		0.0860	0.500	1	05/05/2021 16:42	WG1664121
PCB 1254	U		0.0470	0.500	1	05/05/2021 16:42	WG1664121
PCB 1260	U		0.120	0.500	1	05/05/2021 16:42	WG1664121
Total PCBs	U		0.0420	0.500	1	05/05/2021 16:42	WG1664121
(S) Decachlorobiphenyl	*13.9*	J2		*30.0-150*		*05/05/2021 16:42*	WG1664121
(S) Tetrachloro-m-xylene	*62.4*			*30.0-150*		*05/05/2021 16:42*	WG1664121

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetophenone	U		0.214	10.3	1.03	05/05/2021 23:04	WG1663492
Atrazine	U		0.263	10.3	1.03	05/05/2021 23:04	WG1663492
Benzaldehyde	U	J4	1.74	10.3	1.03	05/05/2021 23:04	WG1663492
Biphenyl	U		0.814	10.3	1.03	05/05/2021 23:04	WG1663492
Bis(2-chlorethoxy)methane	U		0.119	10.3	1.03	05/05/2021 23:04	WG1663492
Bis(2-chloroethyl)ether	U		0.141	10.3	1.03	05/05/2021 23:04	WG1663492
2,2-Oxybis(1-Chloropropane)	U		0.216	10.3	1.03	05/05/2021 23:04	WG1663492
4-Bromophenyl-phenylether	U		0.0903	10.3	1.03	05/05/2021 23:04	WG1663492
Caprolactam	U		0.318	10.3	1.03	05/05/2021 23:04	WG1663492
Carbazole	U		0.114	10.3	1.03	05/05/2021 23:04	WG1663492
4-Chloroaniline	U	J4	0.241	10.3	1.03	05/05/2021 23:04	WG1663492
4-Chlorophenyl-phenylether	U		0.0954	10.3	1.03	05/05/2021 23:04	WG1663492
Dibenzofuran	U		0.0999	10.3	1.03	05/05/2021 23:04	WG1663492
3,3-Dichlorobenzidine	U		0.218	10.3	1.03	05/05/2021 23:04	WG1663492

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
2,4-Dinitrotoluene	U		0.101	10.3	1.03	05/05/2021 23:04	WG1663492
2,6-Dinitrotoluene	U		0.258	10.3	1.03	05/05/2021 23:04	WG1663492
Hexachloro-1,3-butadiene	U		0.0997	10.3	1.03	05/05/2021 23:04	WG1663492
Hexachlorocyclopentadiene	U		0.0616	10.3	1.03	05/05/2021 23:04	WG1663492
Hexachloroethane	U		0.131	10.3	1.03	05/05/2021 23:04	WG1663492
Isophorone	U		0.147	10.3	1.03	05/05/2021 23:04	WG1663492
2-Nitroaniline	U		0.105	10.3	1.03	05/05/2021 23:04	WG1663492
3-Nitroaniline	U		0.0895	10.3	1.03	05/05/2021 23:04	WG1663492
4-Nitroaniline	U		0.0937	10.3	1.03	05/05/2021 23:04	WG1663492
Nitrobenzene	U		0.306	10.3	1.03	05/05/2021 23:04	WG1663492
n-Nitrosodiphenylamine	U		2.44	10.3	1.03	05/05/2021 23:04	WG1663492
n-Nitrosodi-n-propylamine	U		0.269	10.3	1.03	05/05/2021 23:04	WG1663492
Benzylbutyl phthalate	U		0.788	3.09	1.03	05/05/2021 23:04	WG1663492
Bis(2-ethylhexyl)phthalate	U		0.922	3.09	1.03	05/05/2021 23:04	WG1663492
Di-n-butyl phthalate	U		0.467	3.09	1.03	05/05/2021 23:04	WG1663492
Diethyl phthalate	U		0.296	3.09	1.03	05/05/2021 23:04	WG1663492
Dimethyl phthalate	U		0.268	3.09	1.03	05/05/2021 23:04	WG1663492
Di-n-octyl phthalate	U		0.960	3.09	1.03	05/05/2021 23:04	WG1663492
1,2,4,5-Tetrachlorobenzene	U		0.0666	10.3	1.03	05/05/2021 23:04	WG1663492
4-Chloro-3-methylphenol	U	J4	0.135	10.3	1.03	05/05/2021 23:04	WG1663492
2-Chlorophenol	U	J4	0.137	10.3	1.03	05/05/2021 23:04	WG1663492
2-Methylphenol	U	J4	0.0957	10.3	1.03	05/05/2021 23:04	WG1663492
3&4-Methyl Phenol	U		0.173	10.3	1.03	05/05/2021 23:04	WG1663492
2,4-Dichlorophenol	U		0.105	10.3	1.03	05/05/2021 23:04	WG1663492
2,4-Dimethylphenol	U	J4	0.0655	10.3	1.03	05/05/2021 23:04	WG1663492
4,6-Dinitro-2-methylphenol	U		1.15	10.3	1.03	05/05/2021 23:04	WG1663492
2,4-Dinitrophenol	U		6.11	10.3	1.03	05/05/2021 23:04	WG1663492
2-Nitrophenol	U		0.121	10.3	1.03	05/05/2021 23:04	WG1663492
4-Nitrophenol	U		0.147	10.3	1.03	05/06/2021 16:32	WG1663492
Pentachlorophenol	U		0.322	10.3	1.03	05/05/2021 23:04	WG1663492
Phenol	U		4.46	10.3	1.03	05/05/2021 23:04	WG1663492
2,4,5-Trichlorophenol	U		0.112	10.3	1.03	05/05/2021 23:04	WG1663492
2,4,6-Trichlorophenol	U		0.103	10.3	1.03	05/05/2021 23:04	WG1663492
(S) 2-Fluorophenol	*57.8*			*15.0-110*		*05/06/2021 16:32*	WG1663492
(S) 2-Fluorophenol	*57.3*			*15.0-110*		*05/05/2021 23:04*	WG1663492
(S) Phenol-d5	*38.3*			*15.0-110*		*05/06/2021 16:32*	WG1663492
(S) Phenol-d5	*38.0*			*15.0-110*		*05/05/2021 23:04*	WG1663492
(S) Nitrobenzene-d5	*85.0*			*30.0-130*		*05/05/2021 23:04*	WG1663492
(S) Nitrobenzene-d5	*83.5*			*30.0-130*		*05/06/2021 16:32*	WG1663492
(S) 2-Fluorobiphenyl	*101*			*30.0-130*		*05/05/2021 23:04*	WG1663492
(S) 2-Fluorobiphenyl	*102*			*30.0-130*		*05/06/2021 16:32*	WG1663492
(S) 2,4,6-Tribromophenol	*102*			*15.0-110*		*05/06/2021 16:32*	WG1663492
(S) 2,4,6-Tribromophenol	*101*			*15.0-110*		*05/05/2021 23:04*	WG1663492
(S) p-Terphenyl-d14	*93.5*			*30.0-130*		*05/05/2021 23:04*	WG1663492
(S) p-Terphenyl-d14	*93.8*			*30.0-130*		*05/06/2021 16:32*	WG1663492

Sample Narrative:

L1346268-29 WG1663492: Dilution due to sample volume.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	21.4	J N	0.000	0.000	1.03	05/05/2021 23:04	WG1663492		
Total Tic	0.000		0.000	0.000	1.03	05/06/2021 16:32	WG1663492		
Carbon Tetrachloride	15.6	J N	0.000	0.000	1.03	05/05/2021 23:04	WG1663492	000056-23-5	1.62
Unknown-01	5.81	J N	0.000	0.000	1.03	05/05/2021 23:04	WG1663492	033734-37-1	15.40

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	CAS #	RT
	ug/l		ug/l	ug/l		date / time			

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Anthracene	U		0.0190	0.0500	1	05/06/2021 04:17	WG1665257
Acenaphthene	U		0.0190	0.0500	1	05/06/2021 04:17	WG1665257
Acenaphthylene	U		0.0171	0.0500	1	05/06/2021 04:17	WG1665257
Benzo(a)anthracene	U		0.0203	0.0500	1	05/06/2021 04:17	WG1665257
Benzo(a)pyrene	U		0.0184	0.0500	1	05/06/2021 04:17	WG1665257
Benzo(b)fluoranthene	U		0.0168	0.0500	1	05/06/2021 04:17	WG1665257
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	05/06/2021 04:17	WG1665257
Benzo(k)fluoranthene	U		0.0202	0.0500	1	05/06/2021 04:17	WG1665257
Chrysene	U		0.0179	0.0500	1	05/06/2021 04:17	WG1665257
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	05/06/2021 04:17	WG1665257
Fluoranthene	U		0.0270	0.100	1	05/06/2021 04:17	WG1665257
Fluorene	U		0.0169	0.0500	1	05/06/2021 04:17	WG1665257
Hexachlorobenzene	U		0.00670	0.0200	1	05/06/2021 04:17	WG1665257
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	05/06/2021 04:17	WG1665257
Naphthalene	U		0.0917	0.250	1	05/06/2021 04:17	WG1665257
Phenanthrene	0.0328	J	0.0180	0.0500	1	05/06/2021 04:17	WG1665257
Pyrene	U		0.0169	0.0500	1	05/06/2021 04:17	WG1665257
1-Methylnaphthalene	U		0.0687	0.250	1	05/06/2021 04:17	WG1665257
2-Methylnaphthalene	U		0.0674	0.250	1	05/06/2021 04:17	WG1665257
2-Chloronaphthalene	U		0.0682	0.250	1	05/06/2021 04:17	WG1665257
(S) Nitrobenzene-d5	*102*			*31.0-160*		*05/06/2021 04:17*	WG1665257
(S) 2-Fluorobiphenyl	*91.1*			*48.0-148*		*05/06/2021 04:17*	WG1665257
(S) p-Terphenyl-d14	*100*			*37.0-146*		*05/06/2021 04:17*	WG1665257

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cyanide	U		1.80	5.00	1	05/06/2021 21:11	WG1665647

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.100	0.200	1	05/07/2021 12:03	WG1663098

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aluminum	U		18.5	100	1	05/15/2021 00:44	WG1669683
Antimony	U		1.03	4.00	1	05/15/2021 00:44	WG1669683
Arsenic	U		0.180	2.00	1	05/15/2021 00:44	WG1669683
Barium	0.560	J	0.381	20.0	1	05/15/2021 00:44	WG1669683
Beryllium	U		0.190	2.00	1	05/15/2021 00:44	WG1669683
Cadmium	U		0.150	1.00	1	05/15/2021 00:44	WG1669683
Calcium	3570		93.6	1000	1	05/15/2021 00:44	WG1669683
Chromium	U		1.24	2.00	1	05/15/2021 00:44	WG1669683
Copper	3.87	B J	1.51	5.00	1	05/15/2021 00:44	WG1669683
Cobalt	U		0.0596	2.00	1	05/15/2021 00:44	WG1669683
Iron	U		28.1	100	1	05/15/2021 00:44	WG1669683
Lead	U		0.849	2.00	1	05/15/2021 00:44	WG1669683
Magnesium	1550		73.5	1000	1	05/15/2021 00:44	WG1669683
Manganese	U		0.704	5.00	1	05/15/2021 00:44	WG1669683
Nickel	U		0.816	2.00	1	05/15/2021 00:44	WG1669683
Potassium	3330		108	2000	1	05/15/2021 00:44	WG1669683
Selenium	U		0.300	2.00	1	05/15/2021 00:44	WG1669683
Silver	U		0.0700	2.00	1	05/15/2021 00:44	WG1669683
Sodium	U		376	2000	1	05/15/2021 00:44	WG1669683
Thallium	U		0.121	2.00	1	05/15/2021 00:44	WG1669683
Vanadium	U		0.664	5.00	1	05/15/2021 00:44	WG1669683
Zinc	U		3.02	25.0	1	05/15/2021 00:44	WG1669683

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	05/04/2021 18:31	WG1664238
Benzene	U		0.0941	1.00	1	05/04/2021 18:31	WG1664238
Bromochloromethane	U		0.128	1.00	1	05/04/2021 18:31	WG1664238
Bromodichloromethane	U		0.136	1.00	1	05/04/2021 18:31	WG1664238
Bromoform	U		0.129	1.00	1	05/04/2021 18:31	WG1664238
Bromomethane	U		0.605	5.00	1	05/04/2021 18:31	WG1664238
Carbon disulfide	U		0.0962	1.00	1	05/04/2021 18:31	WG1664238
Carbon tetrachloride	U		0.128	1.00	1	05/04/2021 18:31	WG1664238
Chlorobenzene	U		0.116	1.00	1	05/04/2021 18:31	WG1664238
Chlorodibromomethane	U		0.140	1.00	1	05/04/2021 18:31	WG1664238
Chloroethane	U		0.192	5.00	1	05/04/2021 18:31	WG1664238
Chloroform	U		0.111	5.00	1	05/04/2021 18:31	WG1664238
Chloromethane	U		0.960	2.50	1	05/04/2021 18:31	WG1664238
Cyclohexane	U		0.188	1.00	1	05/04/2021 18:31	WG1664238
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	05/04/2021 18:31	WG1664238
1,2-Dibromoethane	U		0.126	1.00	1	05/04/2021 18:31	WG1664238
1,2-Dichlorobenzene	U		0.107	1.00	1	05/04/2021 18:31	WG1664238
1,3-Dichlorobenzene	U		0.110	1.00	1	05/04/2021 18:31	WG1664238

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,4-Dichlorobenzene	U		0.120	1.00	1	05/04/2021 18:31	WG1664238
Dichlorodifluoromethane	U		0.374	5.00	1	05/04/2021 18:31	WG1664238
1,1-Dichloroethane	U		0.100	1.00	1	05/04/2021 18:31	WG1664238
1,2-Dichloroethane	U		0.0819	1.00	1	05/04/2021 18:31	WG1664238
1,1-Dichloroethene	U		0.188	1.00	1	05/04/2021 18:31	WG1664238
cis-1,2-Dichloroethene	U		0.126	1.00	1	05/04/2021 18:31	WG1664238
trans-1,2-Dichloroethene	U		0.149	1.00	1	05/04/2021 18:31	WG1664238
1,2-Dichloropropane	U		0.149	1.00	1	05/04/2021 18:31	WG1664238
cis-1,3-Dichloropropene	U		0.111	1.00	1	05/04/2021 18:31	WG1664238
trans-1,3-Dichloropropene	U		0.118	1.00	1	05/04/2021 18:31	WG1664238
Ethylbenzene	U		0.137	1.00	1	05/04/2021 18:31	WG1664238
2-Hexanone	U		0.787	10.0	1	05/04/2021 18:31	WG1664238
Isopropylbenzene	U		0.105	1.00	1	05/04/2021 18:31	WG1664238
2-Butanone (MEK)	U		1.19	10.0	1	05/04/2021 18:31	WG1664238
Methyl Acetate	U		1.29	20.0	1	05/04/2021 18:31	WG1664238
Methyl Cyclohexane	U		0.660	1.00	1	05/04/2021 18:31	WG1664238
Methylene Chloride	U		0.430	5.00	1	05/04/2021 18:31	WG1664238
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	05/04/2021 18:31	WG1664238
Methyl tert-butyl ether	U		0.101	1.00	1	05/04/2021 18:31	WG1664238
Naphthalene	U		1.00	5.00	1	05/04/2021 18:31	WG1664238
tert-Butyl alcohol	U		4.06	5.00	1	05/04/2021 18:31	WG1664238
Styrene	U		0.118	1.00	1	05/04/2021 18:31	WG1664238
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	05/04/2021 18:31	WG1664238
Tetrachloroethene	U		0.300	1.00	1	05/04/2021 18:31	WG1664238
Toluene	U		0.278	1.00	1	05/04/2021 18:31	WG1664238
1,2,3-Trichlorobenzene	U		0.230	1.00	1	05/04/2021 18:31	WG1664238
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/04/2021 18:31	WG1664238
1,1,1-Trichloroethane	U		0.149	1.00	1	05/04/2021 18:31	WG1664238
1,1,2-Trichloroethane	U		0.158	1.00	1	05/04/2021 18:31	WG1664238
Trichloroethene	U		0.190	1.00	1	05/04/2021 18:31	WG1664238
Trichlorofluoromethane	U		0.160	5.00	1	05/04/2021 18:31	WG1664238
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	05/04/2021 18:31	WG1664238
Vinyl chloride	U	C3	0.234	1.00	1	05/04/2021 18:31	WG1664238
Xylenes, Total	U		0.174	3.00	1	05/04/2021 18:31	WG1664238
(S) Toluene-d8	*105*			*80.0-120*		*05/04/2021 18:31*	WG1664238
(S) 4-Bromofluorobenzene	*96.8*			*77.0-126*		*05/04/2021 18:31*	WG1664238
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*05/04/2021 18:31*	WG1664238

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	CAS #	RT
	ug/l		ug/l	ug/l		date / time			
Total Tic	0.000		0.000	0.000	1	05/04/2021 18:31	WG1664238		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	05/06/2021 16:43	WG1664603
1,2-Dibromo-3-Chloropropane	U		0.00748	0.0200	1	05/06/2021 16:43	WG1664603

Pesticides (GC) by Method 8081B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aldrin	U		0.00813	0.0400	1	05/05/2021 23:44	WG1664121
Alpha BHC	U		0.0166	0.0200	1	05/05/2021 23:44	WG1664121
Beta BHC	U		0.0184	0.0400	1	05/05/2021 23:44	WG1664121
Delta BHC	U		0.0197	0.0500	1	05/05/2021 23:44	WG1664121
Gamma BHC	U		0.0176	0.0300	1	05/05/2021 23:44	WG1664121
Chlordane	U		0.0977	0.500	1	05/05/2021 23:44	WG1664121
4,4-DDD	U		0.0170	0.0500	1	05/05/2021 23:44	WG1664121
4,4-DDE	U		0.0164	0.0500	1	05/05/2021 23:44	WG1664121
4,4-DDT	U		0.0177	0.0500	1	05/05/2021 23:44	WG1664121
Dieldrin	U		0.00751	0.0500	1	05/05/2021 23:44	WG1664121
Endosulfan I	U		0.0179	0.0500	1	05/05/2021 23:44	WG1664121
Endosulfan II	U		0.0176	0.0500	1	05/05/2021 23:44	WG1664121
Endosulfan sulfate	U		0.0196	0.0500	1	05/05/2021 23:44	WG1664121
Endrin	U		0.0189	0.0500	1	05/05/2021 23:44	WG1664121
Endrin aldehyde	U	J4	0.0142	0.0500	1	05/05/2021 23:44	WG1664121
Endrin ketone	U		0.0170	0.0500	1	05/05/2021 23:44	WG1664121
Hexachlorobenzene	U		0.0134	0.0500	1	05/05/2021 23:44	WG1664121
Heptachlor	U		0.0108	0.0500	1	05/05/2021 23:44	WG1664121
Heptachlor epoxide	U		0.0175	0.0500	1	05/05/2021 23:44	WG1664121
Methoxychlor	U		0.0193	0.0500	1	05/05/2021 23:44	WG1664121
Toxaphene	U		0.168	0.500	1	05/05/2021 23:44	WG1664121
(S) Decachlorobiphenyl	*77.1*			*30.0-150*		*05/05/2021 23:44*	WG1664121
(S) Tetrachloro-m-xylene	*84.1*			*30.0-150*		*05/05/2021 23:44*	WG1664121

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
PCB 1016	U		0.100	0.500	1	05/05/2021 16:54	WG1664121
PCB 1221	U		0.0730	0.500	1	05/05/2021 16:54	WG1664121
PCB 1232	U		0.0420	0.500	1	05/05/2021 16:54	WG1664121
PCB 1242	U		0.0470	0.500	1	05/05/2021 16:54	WG1664121
PCB 1248	U		0.0860	0.500	1	05/05/2021 16:54	WG1664121
PCB 1254	U		0.0470	0.500	1	05/05/2021 16:54	WG1664121
PCB 1260	U		0.120	0.500	1	05/05/2021 16:54	WG1664121
Total PCBs	U		0.0420	0.500	1	05/05/2021 16:54	WG1664121
(S) Decachlorobiphenyl	*66.4*			*30.0-150*		*05/05/2021 16:54*	WG1664121
(S) Tetrachloro-m-xylene	*78.1*			*30.0-150*		*05/05/2021 16:54*	WG1664121

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetophenone	U		0.208	10.0	1	05/05/2021 23:25	WG1663492
Atrazine	U		0.255	10.0	1	05/05/2021 23:25	WG1663492
Benzaldehyde	U	J4	1.69	10.0	1	05/05/2021 23:25	WG1663492
Biphenyl	U		0.790	10.0	1	05/05/2021 23:25	WG1663492
Bis(2-chlorethoxy)methane	U		0.116	10.0	1	05/05/2021 23:25	WG1663492
Bis(2-chloroethyl)ether	U		0.137	10.0	1	05/05/2021 23:25	WG1663492
2,2-Oxybis(1-Chloropropane)	U		0.210	10.0	1	05/05/2021 23:25	WG1663492
4-Bromophenyl-phenylether	U		0.0877	10.0	1	05/05/2021 23:25	WG1663492
Caprolactam	U		0.309	10.0	1	05/05/2021 23:25	WG1663492
Carbazole	U		0.111	10.0	1	05/05/2021 23:25	WG1663492
4-Chloroaniline	U	J4	0.234	10.0	1	05/05/2021 23:25	WG1663492
4-Chlorophenyl-phenylether	U		0.0926	10.0	1	05/05/2021 23:25	WG1663492
Dibenzofuran	U		0.0970	10.0	1	05/05/2021 23:25	WG1663492
3,3-Dichlorobenzidine	U		0.212	10.0	1	05/05/2021 23:25	WG1663492

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
2,4-Dinitrotoluene	U		0.0983	10.0	1	05/05/2021 23:25	WG1663492
2,6-Dinitrotoluene	U		0.250	10.0	1	05/05/2021 23:25	WG1663492
Hexachloro-1,3-butadiene	U		0.0968	10.0	1	05/05/2021 23:25	WG1663492
Hexachlorocyclopentadiene	U		0.0598	10.0	1	05/05/2021 23:25	WG1663492
Hexachloroethane	U		0.127	10.0	1	05/05/2021 23:25	WG1663492
Isophorone	U		0.143	10.0	1	05/05/2021 23:25	WG1663492
2-Nitroaniline	U		0.102	10.0	1	05/05/2021 23:25	WG1663492
3-Nitroaniline	U		0.0869	10.0	1	05/05/2021 23:25	WG1663492
4-Nitroaniline	U		0.0910	10.0	1	05/05/2021 23:25	WG1663492
Nitrobenzene	U		0.297	10.0	1	05/05/2021 23:25	WG1663492
n-Nitrosodiphenylamine	U		2.37	10.0	1	05/05/2021 23:25	WG1663492
n-Nitrosodi-n-propylamine	U		0.261	10.0	1	05/05/2021 23:25	WG1663492
Benzylbutyl phthalate	U		0.765	3.00	1	05/05/2021 23:25	WG1663492
Bis(2-ethylhexyl)phthalate	U		0.895	3.00	1	05/05/2021 23:25	WG1663492
Di-n-butyl phthalate	U		0.453	3.00	1	05/05/2021 23:25	WG1663492
Diethyl phthalate	U		0.287	3.00	1	05/05/2021 23:25	WG1663492
Dimethyl phthalate	U		0.260	3.00	1	05/05/2021 23:25	WG1663492
Di-n-octyl phthalate	U		0.932	3.00	1	05/05/2021 23:25	WG1663492
1,2,4,5-Tetrachlorobenzene	U		0.0647	10.0	1	05/05/2021 23:25	WG1663492
4-Chloro-3-methylphenol	U	J4	0.131	10.0	1	05/05/2021 23:25	WG1663492
2-Chlorophenol	U	J4	0.133	10.0	1	05/05/2021 23:25	WG1663492
2-Methylphenol	U	J4	0.0929	10.0	1	05/05/2021 23:25	WG1663492
3&4-Methyl Phenol	U		0.168	10.0	1	05/05/2021 23:25	WG1663492
2,4-Dichlorophenol	U		0.102	10.0	1	05/05/2021 23:25	WG1663492
2,4-Dimethylphenol	U	J4	0.0636	10.0	1	05/05/2021 23:25	WG1663492
4,6-Dinitro-2-methylphenol	U		1.12	10.0	1	05/05/2021 23:25	WG1663492
2,4-Dinitrophenol	U		5.93	10.0	1	05/05/2021 23:25	WG1663492
2-Nitrophenol	U		0.117	10.0	1	05/05/2021 23:25	WG1663492
4-Nitrophenol	U		0.143	10.0	1	05/06/2021 16:53	WG1663492
Pentachlorophenol	U		0.313	10.0	1	05/05/2021 23:25	WG1663492
Phenol	U		4.33	10.0	1	05/05/2021 23:25	WG1663492
2,4,5-Trichlorophenol	U		0.109	10.0	1	05/05/2021 23:25	WG1663492
2,4,6-Trichlorophenol	U		0.100	10.0	1	05/05/2021 23:25	WG1663492
(S) 2-Fluorophenol	*47.3*			*15.0-110*		*05/05/2021 23:25*	WG1663492
(S) 2-Fluorophenol	*48.0*			*15.0-110*		*05/06/2021 16:53*	WG1663492
(S) Phenol-d5	*32.8*			*15.0-110*		*05/05/2021 23:25*	WG1663492
(S) Phenol-d5	*32.9*			*15.0-110*		*05/06/2021 16:53*	WG1663492
(S) Nitrobenzene-d5	*85.4*			*30.0-130*		*05/06/2021 16:53*	WG1663492
(S) Nitrobenzene-d5	*82.8*			*30.0-130*		*05/05/2021 23:25*	WG1663492
(S) 2-Fluorobiphenyl	*102*			*30.0-130*		*05/06/2021 16:53*	WG1663492
(S) 2-Fluorobiphenyl	*103*			*30.0-130*		*05/05/2021 23:25*	WG1663492
(S) 2,4,6-Tribromophenol	*94.7*			*15.0-110*		*05/06/2021 16:53*	WG1663492
(S) 2,4,6-Tribromophenol	*95.8*			*15.0-110*		*05/05/2021 23:25*	WG1663492
(S) p-Terphenyl-d14	*92.5*			*30.0-130*		*05/06/2021 16:53*	WG1663492
(S) p-Terphenyl-d14	*91.7*			*30.0-130*		*05/05/2021 23:25*	WG1663492

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	CAS #	RT
	ug/l		ug/l	ug/l		date / time			
Total Tic	0.000		0.000	0.000	1	05/06/2021 16:53	WG1663492		
Total Tic	8.54	J N	0.000	0.000	1	05/05/2021 23:25	WG1663492		
Unknown-01	8.54	J N	0.000	0.000	1	05/05/2021 23:25	WG1663492	000056-23-5	1.63

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Anthracene	U		0.0190	0.0500	1	05/06/2021 04:37	WG1665257
Acenaphthene	U		0.0190	0.0500	1	05/06/2021 04:37	WG1665257
Acenaphthylene	U		0.0171	0.0500	1	05/06/2021 04:37	WG1665257
Benzo(a)anthracene	U		0.0203	0.0500	1	05/06/2021 04:37	WG1665257
Benzo(a)pyrene	U		0.0184	0.0500	1	05/06/2021 04:37	WG1665257
Benzo(b)fluoranthene	U		0.0168	0.0500	1	05/06/2021 04:37	WG1665257
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	05/06/2021 04:37	WG1665257
Benzo(k)fluoranthene	U		0.0202	0.0500	1	05/06/2021 04:37	WG1665257
Chrysene	U		0.0179	0.0500	1	05/06/2021 04:37	WG1665257
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	05/06/2021 04:37	WG1665257
Fluoranthene	U		0.0270	0.100	1	05/06/2021 04:37	WG1665257
Fluorene	U		0.0169	0.0500	1	05/06/2021 04:37	WG1665257
Hexachlorobenzene	U		0.00670	0.0200	1	05/06/2021 04:37	WG1665257
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	05/06/2021 04:37	WG1665257
Naphthalene	U		0.0917	0.250	1	05/06/2021 04:37	WG1665257
Phenanthrene	U		0.0180	0.0500	1	05/06/2021 04:37	WG1665257
Pyrene	U		0.0169	0.0500	1	05/06/2021 04:37	WG1665257
1-Methylnaphthalene	U		0.0687	0.250	1	05/06/2021 04:37	WG1665257
2-Methylnaphthalene	U		0.0674	0.250	1	05/06/2021 04:37	WG1665257
2-Chloronaphthalene	U		0.0682	0.250	1	05/06/2021 04:37	WG1665257
(S) Nitrobenzene-d5	*93.2*			*31.0-160*		*05/06/2021 04:37*	WG1665257
(S) 2-Fluorobiphenyl	*92.1*			*48.0-148*		*05/06/2021 04:37*	WG1665257
(S) p-Terphenyl-d14	*102*			*37.0-146*		*05/06/2021 04:37*	WG1665257

Wet Chemistry by Method 4500CN E-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Cyanide	U		1.80	5.00	1	05/06/2021 21:12	WG1665647

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	U		0.100	0.200	1	05/07/2021 12:05	WG1663098

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Aluminum	U		18.5	100	1	05/15/2021 00:47	WG1669683
Antimony	U		1.03	4.00	1	05/15/2021 00:47	WG1669683
Arsenic	U		0.180	2.00	1	05/15/2021 00:47	WG1669683
Barium	0.845	J	0.381	20.0	1	05/15/2021 00:47	WG1669683
Beryllium	U		0.190	2.00	1	05/15/2021 00:47	WG1669683
Cadmium	U		0.150	1.00	1	05/15/2021 00:47	WG1669683
Calcium	130	J	93.6	1000	1	05/15/2021 00:47	WG1669683
Chromium	1.28	J	1.24	2.00	1	05/15/2021 00:47	WG1669683
Copper	3.52	B J	1.51	5.00	1	05/15/2021 00:47	WG1669683
Cobalt	U		0.0596	2.00	1	05/15/2021 00:47	WG1669683
Iron	U		28.1	100	1	05/15/2021 00:47	WG1669683
Lead	U		0.849	2.00	1	05/15/2021 00:47	WG1669683
Magnesium	U		73.5	1000	1	05/15/2021 00:47	WG1669683
Manganese	U		0.704	5.00	1	05/15/2021 00:47	WG1669683
Nickel	U		0.816	2.00	1	05/15/2021 00:47	WG1669683
Potassium	U		108	2000	1	05/15/2021 00:47	WG1669683
Selenium	U		0.300	2.00	1	05/15/2021 00:47	WG1669683
Silver	U		0.0700	2.00	1	05/15/2021 00:47	WG1669683
Sodium	U		376	2000	1	05/15/2021 00:47	WG1669683
Thallium	U		0.121	2.00	1	05/15/2021 00:47	WG1669683
Vanadium	U		0.664	5.00	1	05/15/2021 00:47	WG1669683
Zinc	U		3.02	25.0	1	05/15/2021 00:47	WG1669683

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	05/04/2021 18:52	WG1664238
Benzene	U		0.0941	1.00	1	05/04/2021 18:52	WG1664238
Bromochloromethane	U		0.128	1.00	1	05/04/2021 18:52	WG1664238
Bromodichloromethane	U		0.136	1.00	1	05/04/2021 18:52	WG1664238
Bromoform	U		0.129	1.00	1	05/04/2021 18:52	WG1664238
Bromomethane	U		0.605	5.00	1	05/04/2021 18:52	WG1664238
Carbon disulfide	U		0.0962	1.00	1	05/04/2021 18:52	WG1664238
Carbon tetrachloride	U		0.128	1.00	1	05/04/2021 18:52	WG1664238
Chlorobenzene	U		0.116	1.00	1	05/04/2021 18:52	WG1664238
Chlorodibromomethane	U		0.140	1.00	1	05/04/2021 18:52	WG1664238
Chloroethane	U		0.192	5.00	1	05/04/2021 18:52	WG1664238
Chloroform	U		0.111	5.00	1	05/04/2021 18:52	WG1664238
Chloromethane	U		0.960	2.50	1	05/04/2021 18:52	WG1664238
Cyclohexane	U		0.188	1.00	1	05/04/2021 18:52	WG1664238
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	05/04/2021 18:52	WG1664238
1,2-Dibromoethane	U		0.126	1.00	1	05/04/2021 18:52	WG1664238
1,2-Dichlorobenzene	U		0.107	1.00	1	05/04/2021 18:52	WG1664238
1,3-Dichlorobenzene	U		0.110	1.00	1	05/04/2021 18:52	WG1664238

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,4-Dichlorobenzene	U		0.120	1.00	1	05/04/2021 18:52	WG1664238
Dichlorodifluoromethane	U		0.374	5.00	1	05/04/2021 18:52	WG1664238
1,1-Dichloroethane	U		0.100	1.00	1	05/04/2021 18:52	WG1664238
1,2-Dichloroethane	U		0.0819	1.00	1	05/04/2021 18:52	WG1664238
1,1-Dichloroethene	U		0.188	1.00	1	05/04/2021 18:52	WG1664238
cis-1,2-Dichloroethene	U		0.126	1.00	1	05/04/2021 18:52	WG1664238
trans-1,2-Dichloroethene	U		0.149	1.00	1	05/04/2021 18:52	WG1664238
1,2-Dichloropropane	U		0.149	1.00	1	05/04/2021 18:52	WG1664238
cis-1,3-Dichloropropene	U		0.111	1.00	1	05/04/2021 18:52	WG1664238
trans-1,3-Dichloropropene	U		0.118	1.00	1	05/04/2021 18:52	WG1664238
Ethylbenzene	U		0.137	1.00	1	05/04/2021 18:52	WG1664238
2-Hexanone	U		0.787	10.0	1	05/04/2021 18:52	WG1664238
Isopropylbenzene	U		0.105	1.00	1	05/04/2021 18:52	WG1664238
2-Butanone (MEK)	U		1.19	10.0	1	05/04/2021 18:52	WG1664238
Methyl Acetate	U		1.29	20.0	1	05/04/2021 18:52	WG1664238
Methyl Cyclohexane	U		0.660	1.00	1	05/04/2021 18:52	WG1664238
Methylene Chloride	U		0.430	5.00	1	05/04/2021 18:52	WG1664238
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	05/04/2021 18:52	WG1664238
Methyl tert-butyl ether	U		0.101	1.00	1	05/04/2021 18:52	WG1664238
Naphthalene	U		1.00	5.00	1	05/04/2021 18:52	WG1664238
tert-Butyl alcohol	U		4.06	5.00	1	05/04/2021 18:52	WG1664238
Styrene	U		0.118	1.00	1	05/04/2021 18:52	WG1664238
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	05/04/2021 18:52	WG1664238
Tetrachloroethene	U		0.300	1.00	1	05/04/2021 18:52	WG1664238
Toluene	U		0.278	1.00	1	05/04/2021 18:52	WG1664238
1,2,3-Trichlorobenzene	U		0.230	1.00	1	05/04/2021 18:52	WG1664238
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/04/2021 18:52	WG1664238
1,1,1-Trichloroethane	U		0.149	1.00	1	05/04/2021 18:52	WG1664238
1,1,2-Trichloroethane	U		0.158	1.00	1	05/04/2021 18:52	WG1664238
Trichloroethene	U		0.190	1.00	1	05/04/2021 18:52	WG1664238
Trichlorofluoromethane	U		0.160	5.00	1	05/04/2021 18:52	WG1664238
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	05/04/2021 18:52	WG1664238
Vinyl chloride	U	C3	0.234	1.00	1	05/04/2021 18:52	WG1664238
Xylenes, Total	U		0.174	3.00	1	05/04/2021 18:52	WG1664238
(S) Toluene-d8	*102*			*80.0-120*		*05/04/2021 18:52*	WG1664238
(S) 4-Bromofluorobenzene	*95.7*			*77.0-126*		*05/04/2021 18:52*	WG1664238
(S) 1,2-Dichloroethane-d4	*120*			*70.0-130*		*05/04/2021 18:52*	WG1664238

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	CAS #	RT
	ug/l		ug/l	ug/l		date / time			
Total Tic	0.000		0.000	0.000	1	05/04/2021 18:52	WG1664238		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	05/06/2021 18:20	WG1664605
1,2-Dibromo-3-Chloropropane	U		0.00748	0.0200	1	05/06/2021 18:20	WG1664605

Pesticides (GC) by Method 8081B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aldrin	U		0.00813	0.0400	1	05/05/2021 23:56	WG1664121
Alpha BHC	U		0.0166	0.0200	1	05/05/2021 23:56	WG1664121
Beta BHC	U		0.0184	0.0400	1	05/05/2021 23:56	WG1664121
Delta BHC	U		0.0197	0.0500	1	05/05/2021 23:56	WG1664121
Gamma BHC	U		0.0176	0.0300	1	05/05/2021 23:56	WG1664121
Chlordane	U		0.0977	0.500	1	05/05/2021 23:56	WG1664121
4,4-DDD	U		0.0170	0.0500	1	05/05/2021 23:56	WG1664121
4,4-DDE	U		0.0164	0.0500	1	05/05/2021 23:56	WG1664121
4,4-DDT	U		0.0177	0.0500	1	05/05/2021 23:56	WG1664121
Dieldrin	U		0.00751	0.0500	1	05/05/2021 23:56	WG1664121
Endosulfan I	U		0.0179	0.0500	1	05/05/2021 23:56	WG1664121
Endosulfan II	U		0.0176	0.0500	1	05/05/2021 23:56	WG1664121
Endosulfan sulfate	U		0.0196	0.0500	1	05/05/2021 23:56	WG1664121
Endrin	U		0.0189	0.0500	1	05/05/2021 23:56	WG1664121
Endrin aldehyde	U	J4	0.0142	0.0500	1	05/05/2021 23:56	WG1664121
Endrin ketone	U		0.0170	0.0500	1	05/05/2021 23:56	WG1664121
Hexachlorobenzene	U		0.0134	0.0500	1	05/05/2021 23:56	WG1664121
Heptachlor	U		0.0108	0.0500	1	05/05/2021 23:56	WG1664121
Heptachlor epoxide	U		0.0175	0.0500	1	05/05/2021 23:56	WG1664121
Methoxychlor	U		0.0193	0.0500	1	05/05/2021 23:56	WG1664121
Toxaphene	U		0.168	0.500	1	05/05/2021 23:56	WG1664121
(S) Decachlorobiphenyl	*46.3*			*30.0-150*		*05/05/2021 23:56*	WG1664121
(S) Tetrachloro-m-xylene	*72.0*			*30.0-150*		*05/05/2021 23:56*	WG1664121

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
PCB 1016	U		0.100	0.500	1	05/05/2021 17:06	WG1664121
PCB 1221	U		0.0730	0.500	1	05/05/2021 17:06	WG1664121
PCB 1232	U		0.0420	0.500	1	05/05/2021 17:06	WG1664121
PCB 1242	U		0.0470	0.500	1	05/05/2021 17:06	WG1664121
PCB 1248	U		0.0860	0.500	1	05/05/2021 17:06	WG1664121
PCB 1254	U		0.0470	0.500	1	05/05/2021 17:06	WG1664121
PCB 1260	U		0.120	0.500	1	05/05/2021 17:06	WG1664121
Total PCBs	U		0.0420	0.500	1	05/05/2021 17:06	WG1664121
(S) Decachlorobiphenyl	*37.3*			*30.0-150*		*05/05/2021 17:06*	WG1664121
(S) Tetrachloro-m-xylene	*61.7*			*30.0-150*		*05/05/2021 17:06*	WG1664121

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetophenone	U	J4	0.208	10.0	1	05/05/2021 02:08	WG1663713
Atrazine	U		0.255	10.0	1	05/05/2021 02:08	WG1663713
Benzaldehyde	U		1.69	10.0	1	05/05/2021 02:08	WG1663713
Biphenyl	U	J4	0.790	10.0	1	05/05/2021 02:08	WG1663713
Bis(2-chlorethoxy)methane	U	J4	0.116	10.0	1	05/05/2021 02:08	WG1663713
Bis(2-chloroethyl)ether	U	J4	0.137	10.0	1	05/05/2021 02:08	WG1663713
2,2-Oxybis(1-Chloropropane)	U	J4	0.210	10.0	1	05/05/2021 02:08	WG1663713
4-Bromophenyl-phenylether	U	J4	0.0877	10.0	1	05/05/2021 02:08	WG1663713
Caprolactam	U	J4	0.309	10.0	1	05/05/2021 02:08	WG1663713
Carbazole	U		0.111	10.0	1	05/05/2021 02:08	WG1663713
4-Chloroaniline	U	J4	0.234	10.0	1	05/05/2021 02:08	WG1663713
4-Chlorophenyl-phenylether	U	J4	0.0926	10.0	1	05/05/2021 02:08	WG1663713
Dibenzofuran	U	J4	0.0970	10.0	1	05/05/2021 02:08	WG1663713
3,3-Dichlorobenzidine	U		0.212	10.0	1	05/05/2021 02:08	WG1663713

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
2,4-Dinitrotoluene	U		0.0983	10.0	1	05/05/2021 02:08	WG1663713
2,6-Dinitrotoluene	U	J4	0.250	10.0	1	05/05/2021 02:08	WG1663713
Hexachloro-1,3-butadiene	U	J4	0.0968	10.0	1	05/05/2021 02:08	WG1663713
Hexachlorocyclopentadiene	U		0.0598	10.0	1	05/05/2021 02:08	WG1663713
Hexachloroethane	U		0.127	10.0	1	05/05/2021 02:08	WG1663713
Isophorone	U	J4	0.143	10.0	1	05/05/2021 02:08	WG1663713
2-Nitroaniline	U		0.102	10.0	1	05/05/2021 02:08	WG1663713
3-Nitroaniline	U		0.0869	10.0	1	05/05/2021 02:08	WG1663713
4-Nitroaniline	U		0.0910	10.0	1	05/05/2021 02:08	WG1663713
Nitrobenzene	U	J4	0.297	10.0	1	05/05/2021 02:08	WG1663713
n-Nitrosodiphenylamine	U		2.37	10.0	1	05/05/2021 02:08	WG1663713
n-Nitrosodi-n-propylamine	U	J4	0.261	10.0	1	05/05/2021 02:08	WG1663713
Benzylbutyl phthalate	U		0.765	3.00	1	05/05/2021 02:08	WG1663713
Bis(2-ethylhexyl)phthalate	U		0.895	3.00	1	05/05/2021 02:08	WG1663713
Di-n-butyl phthalate	U		0.453	3.00	1	05/05/2021 02:08	WG1663713
Diethyl phthalate	U		0.287	3.00	1	05/05/2021 02:08	WG1663713
Dimethyl phthalate	U		0.260	3.00	1	05/05/2021 02:08	WG1663713
Di-n-octyl phthalate	U		0.932	3.00	1	05/05/2021 02:08	WG1663713
1,2,4,5-Tetrachlorobenzene	U	J4	0.0647	10.0	1	05/05/2021 02:08	WG1663713
4-Chloro-3-methylphenol	U	J4	0.131	10.0	1	05/05/2021 02:08	WG1663713
2-Chlorophenol	U	J4	0.133	10.0	1	05/05/2021 02:08	WG1663713
2-Methylphenol	U	J4	0.0929	10.0	1	05/05/2021 02:08	WG1663713
3&4-Methyl Phenol	U		0.168	10.0	1	05/05/2021 02:08	WG1663713
2,4-Dichlorophenol	U	J4	0.102	10.0	1	05/05/2021 02:08	WG1663713
2,4-Dimethylphenol	U	J4	0.0636	10.0	1	05/05/2021 02:08	WG1663713
4,6-Dinitro-2-methylphenol	U		1.12	10.0	1	05/05/2021 02:08	WG1663713
2,4-Dinitrophenol	U		5.93	10.0	1	05/05/2021 02:08	WG1663713
2-Nitrophenol	U	J4	0.117	10.0	1	05/05/2021 02:08	WG1663713
4-Nitrophenol	U	J4	0.143	10.0	1	05/05/2021 02:08	WG1663713
Pentachlorophenol	U		0.313	10.0	1	05/05/2021 02:08	WG1663713
Phenol	U	J4	4.33	10.0	1	05/05/2021 02:08	WG1663713
2,4,5-Trichlorophenol	U	J4	0.109	10.0	1	05/05/2021 02:08	WG1663713
2,4,6-Trichlorophenol	U	J4	0.100	10.0	1	05/05/2021 02:08	WG1663713
(S) 2-Fluorophenol	*23.3*			*15.0-110*		*05/05/2021 02:08*	WG1663713
(S) Phenol-d5	*15.3*			*15.0-110*		*05/05/2021 02:08*	WG1663713
(S) Nitrobenzene-d5	*30.9*			*30.0-130*		*05/05/2021 02:08*	WG1663713
(S) 2-Fluorobiphenyl	*35.8*			*30.0-130*		*05/05/2021 02:08*	WG1663713
(S) 2,4,6-Tribromophenol	*50.5*			*15.0-110*		*05/05/2021 02:08*	WG1663713
(S) p-Terphenyl-d14	*75.9*			*30.0-130*		*05/05/2021 02:08*	WG1663713

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	CAS #	RT
Total Tic	0.000		0.000	0.000	1	05/05/2021 02:08	WG1663713		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	05/06/2021 02:37	WG1665257
Acenaphthene	U		0.0190	0.0500	1	05/06/2021 02:37	WG1665257
Acenaphthylene	U		0.0171	0.0500	1	05/06/2021 02:37	WG1665257
Benzo(a)anthracene	U		0.0203	0.0500	1	05/06/2021 02:37	WG1665257

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)pyrene	U		0.0184	0.0500	1	05/06/2021 02:37	WG1665257
Benzo(b)fluoranthene	U		0.0168	0.0500	1	05/06/2021 02:37	WG1665257
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	05/06/2021 02:37	WG1665257
Benzo(k)fluoranthene	U		0.0202	0.0500	1	05/06/2021 02:37	WG1665257
Chrysene	U		0.0179	0.0500	1	05/06/2021 02:37	WG1665257
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	05/06/2021 02:37	WG1665257
Fluoranthene	U		0.0270	0.100	1	05/06/2021 02:37	WG1665257
Fluorene	U		0.0169	0.0500	1	05/06/2021 02:37	WG1665257
Hexachlorobenzene	U		0.00670	0.0200	1	05/06/2021 02:37	WG1665257
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	05/06/2021 02:37	WG1665257
Naphthalene	U		0.0917	0.250	1	05/06/2021 02:37	WG1665257
Phenanthrene	U		0.0180	0.0500	1	05/06/2021 02:37	WG1665257
Pyrene	U		0.0169	0.0500	1	05/06/2021 02:37	WG1665257
1-Methylnaphthalene	U		0.0687	0.250	1	05/06/2021 02:37	WG1665257
2-Methylnaphthalene	U		0.0674	0.250	1	05/06/2021 02:37	WG1665257
2-Chloronaphthalene	U		0.0682	0.250	1	05/06/2021 02:37	WG1665257
(S) Nitrobenzene-d5	*105*			*31.0-160*		*05/06/2021 02:37*	WG1665257
(S) 2-Fluorobiphenyl	*92.6*			*48.0-148*		*05/06/2021 02:37*	WG1665257
(S) p-Terphenyl-d14	*105*			*37.0-146*		*05/06/2021 02:37*	WG1665257

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	05/09/2021 01:35	WG1666868
Benzene	0.133	J	0.0941	1.00	1	05/09/2021 01:35	WG1666868
Bromochloromethane	U		0.128	1.00	1	05/09/2021 01:35	WG1666868
Bromodichloromethane	U		0.136	1.00	1	05/09/2021 01:35	WG1666868
Bromoform	U		0.129	1.00	1	05/09/2021 01:35	WG1666868
Bromomethane	U		0.605	5.00	1	05/09/2021 01:35	WG1666868
Carbon disulfide	U		0.0962	1.00	1	05/09/2021 01:35	WG1666868
Carbon tetrachloride	U		0.128	1.00	1	05/09/2021 01:35	WG1666868
Chlorobenzene	U		0.116	1.00	1	05/09/2021 01:35	WG1666868
Chlorodibromomethane	U		0.140	1.00	1	05/09/2021 01:35	WG1666868
Chloroethane	U		0.192	5.00	1	05/09/2021 01:35	WG1666868
Chloroform	U		0.111	5.00	1	05/09/2021 01:35	WG1666868
Chloromethane	U		0.960	2.50	1	05/09/2021 01:35	WG1666868
Cyclohexane	U	C3 J4	0.188	1.00	1	05/09/2021 01:35	WG1666868
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	05/09/2021 01:35	WG1666868
1,2-Dibromoethane	U		0.126	1.00	1	05/09/2021 01:35	WG1666868
1,2-Dichlorobenzene	U		0.107	1.00	1	05/09/2021 01:35	WG1666868
1,3-Dichlorobenzene	U		0.110	1.00	1	05/09/2021 01:35	WG1666868
1,4-Dichlorobenzene	U		0.120	1.00	1	05/09/2021 01:35	WG1666868
Dichlorodifluoromethane	U		0.374	5.00	1	05/09/2021 01:35	WG1666868
1,1-Dichloroethane	U		0.100	1.00	1	05/09/2021 01:35	WG1666868
1,2-Dichloroethane	U		0.0819	1.00	1	05/09/2021 01:35	WG1666868
1,1-Dichloroethene	U		0.188	1.00	1	05/09/2021 01:35	WG1666868
cis-1,2-Dichloroethene	U		0.126	1.00	1	05/09/2021 01:35	WG1666868
trans-1,2-Dichloroethene	U		0.149	1.00	1	05/09/2021 01:35	WG1666868
1,2-Dichloropropane	U		0.149	1.00	1	05/09/2021 01:35	WG1666868
cis-1,3-Dichloropropene	U		0.111	1.00	1	05/09/2021 01:35	WG1666868
trans-1,3-Dichloropropene	U		0.118	1.00	1	05/09/2021 01:35	WG1666868
Ethylbenzene	U		0.137	1.00	1	05/09/2021 01:35	WG1666868
2-Hexanone	U		0.787	10.0	1	05/09/2021 01:35	WG1666868
Isopropylbenzene	U		0.105	1.00	1	05/09/2021 01:35	WG1666868
2-Butanone (MEK)	U		1.19	10.0	1	05/09/2021 01:35	WG1666868
Methyl Acetate	U		1.29	20.0	1	05/09/2021 01:35	WG1666868
Methyl Cyclohexane	U		0.660	1.00	1	05/09/2021 01:35	WG1666868
Methylene Chloride	U		0.430	5.00	1	05/09/2021 01:35	WG1666868
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	05/09/2021 01:35	WG1666868
Methyl tert-butyl ether	U	C3	0.101	1.00	1	05/09/2021 01:35	WG1666868
Naphthalene	U		1.00	5.00	1	05/09/2021 01:35	WG1666868
tert-Butyl alcohol	U	J4	4.06	5.00	1	05/09/2021 01:35	WG1666868
Styrene	U		0.118	1.00	1	05/09/2021 01:35	WG1666868
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	05/09/2021 01:35	WG1666868
Tetrachloroethene	U	C3	0.300	1.00	1	05/09/2021 01:35	WG1666868
Toluene	0.309	J	0.278	1.00	1	05/09/2021 01:35	WG1666868
1,2,3-Trichlorobenzene	U		0.230	1.00	1	05/09/2021 01:35	WG1666868
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/09/2021 01:35	WG1666868
1,1,1-Trichloroethane	U		0.149	1.00	1	05/09/2021 01:35	WG1666868
1,1,2-Trichloroethane	U		0.158	1.00	1	05/09/2021 01:35	WG1666868
Trichloroethene	U		0.190	1.00	1	05/09/2021 01:35	WG1666868
Trichlorofluoromethane	U		0.160	5.00	1	05/09/2021 01:35	WG1666868
1,1,2-Trichlorotrifluoroethane	U	C3 J3 J4	0.180	1.00	1	05/09/2021 01:35	WG1666868
Vinyl chloride	U		0.234	1.00	1	05/09/2021 01:35	WG1666868
Xylenes, Total	0.471	J	0.174	3.00	1	05/09/2021 01:35	WG1666868
(S) Toluene-d8	*101*			*80.0-120*		*05/09/2021 01:35*	WG1666868
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*05/09/2021 01:35*	WG1666868
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*05/09/2021 01:35*	WG1666868

Volatile Organic Compounds (GC/MS) by Method 8260D - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	CAS #	RT
	ug/l		ug/l	ug/l		date / time			
Total Tic	0.000		0.000	0.000	1	05/09/2021 01:35	WG1666868		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Method Blank (MB)

(MB) R3650541-1 05/04/21 14:01

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

L1346268-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1346268-05 05/04/21 14:01 • (DUP) R3650541-3 05/04/21 14:01

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	79.0	78.4	1	0.822		10

Laboratory Control Sample (LCS)

(LCS) R3650541-2 05/04/21 14:01

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3650536-1 05/04/21 13:40

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

L1346268-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1346268-17 05/04/21 13:40 • (DUP) R3650536-3 05/04/21 13:40

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.3	95.9	1	0.341		10

Laboratory Control Sample (LCS)

(LCS) R3650536-2 05/04/21 13:40

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3650561-1 05/04/21 15:05

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1346283-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1346283-01 05/04/21 15:05 • (DUP) R3650561-3 05/04/21 15:05

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	99.9	99.9	1	0.00420		10

Laboratory Control Sample (LCS)

(LCS) R3650561-2 05/04/21 15:05

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3652174-1 05/08/21 09:27

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

L1349734-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349734-01 05/08/21 09:27 • (DUP) R3652174-3 05/08/21 09:27

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	78.2	80.6	1	2.98		10

Laboratory Control Sample (LCS)

(LCS) R3652174-2 05/08/21 09:27

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

QUALITY CONTROL SUMMARY

L1346268-25,26,27,28,29,30,31

Method Blank (MB)

(MB) R3651389-1 05/06/21 20:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Cyanide	U		1.80	5.00

L1345897-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1345897-01 05/06/21 20:15 • (DUP) R3651389-3 05/06/21 20:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Cyanide	U	U	1	0.000		20

L1346268-31 Original Sample (OS) • Duplicate (DUP)

(OS) L1346268-31 05/06/21 21:12 • (DUP) R3651389-8 05/06/21 21:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Cyanide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3651389-2 05/06/21 20:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Cyanide	100	102	102	87.1-120	

L1345960-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1345960-02 05/06/21 20:18 • (MS) R3651389-4 05/06/21 20:21 • (MSD) R3651389-5 05/06/21 20:22

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Cyanide	100	U	106	101	106	101	1	90.0-110			4.83	20

L1346268-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346268-26 05/06/21 20:29 • (MS) R3651389-6 05/06/21 20:30 • (MSD) R3651389-7 05/06/21 21:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Cyanide	100	2.20	102	105	99.8	103	1	90.0-110			2.90	20

Method Blank (MB)

(MB) R3653135-1 05/11/21 18:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Cyanide	U		0.0733	0.250

L1346268-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1346268-02 05/11/21 19:04 • (DUP) R3653135-5 05/11/21 19:05

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1346268-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1346268-15 05/11/21 19:24 • (DUP) R3653135-8 05/11/21 19:25

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3653135-2 05/11/21 18:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	2.50	2.36	94.4	85.0-115	

L1346268-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346268-01 05/11/21 19:33 • (MS) R3653135-3 05/11/21 19:02 • (MSD) R3653135-4 05/11/21 19:03

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 %
Cyanide	1.94	U	1.48	1.54	76.1	79.3	1	75.0-125			4.19	20

L1346268-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346268-13 05/11/21 19:20 • (MS) R3653135-6 05/11/21 19:21 • (MSD) R3653135-7 05/11/21 19:22

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 %
Cyanide	1.80	0.171	1.72	1.72	85.9	86.3	1	75.0-125			0.381	20

Method Blank (MB)

(MB) R3651691-1 05/07/21 11:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Mercury	U		0.100	0.200

Laboratory Control Sample (LCS)

(LCS) R3651691-2 05/07/21 11:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	3.00	3.17	106	80.0-120	

L1345930-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1345930-01 05/07/21 11:16 • (MS) R3651691-3 05/07/21 11:22 • (MSD) R3651691-4 05/07/21 11:24

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	3.00	U	2.99	3.07	99.7	102	1	75.0-125			2.58	20

Method Blank (MB)

(MB) R3651356-1 05/06/21 15:54

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

Laboratory Control Sample (LCS)

(LCS) R3651356-2 05/06/21 15:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.529	106	80.0-120	

L1346268-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346268-13 05/06/21 15:59 • (MS) R3651356-3 05/06/21 16:01 • (MSD) R3651356-4 05/06/21 16:04

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 %
Mercury	0.539	0.0443	0.567	0.646	97.0	112	1	75.0-125			12.9	20

Method Blank (MB)

(MB) R3651213-1 05/06/21 13:06

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

Laboratory Control Sample (LCS)

(LCS) R3651213-2 05/06/21 13:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.564	113	80.0-120	

L1346636-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346636-01 05/06/21 13:11 • (MS) R3651213-3 05/06/21 13:14 • (MSD) R3651213-4 05/06/21 13:16

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 %
Mercury	0.500	U	0.522	0.455	104	91.1	1	75.0-125			13.7	20

Method Blank (MB)

(MB) R3651428-1 05/07/21 00:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aluminum	U		6.08	10.0
Antimony	U		0.544	2.00
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Beryllium	U		0.0315	0.200
Cadmium	U		0.0471	0.500
Calcium	U		10.6	100
Chromium	U		0.133	1.00
Cobalt	U		0.0811	1.00
Copper	U		0.400	2.00
Iron	U		2.24	10.0
Lead	U		0.208	0.500
Magnesium	U		7.38	100
Manganese	U		0.133	1.00
Nickel	U		0.132	2.00
Potassium	42.0	J	20.9	100
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Thallium	U		0.394	2.00
Vanadium	0.572	J	0.506	2.00
Zinc	U		0.832	5.00

Method Blank (MB)

(MB) R3651623-1 05/07/21 10:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Sodium	45.4	J	41.2	100

Laboratory Control Sample (LCS)

(LCS) R3651428-2 05/07/21 00:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	1000	978	97.8	80.0-120	
Antimony	100	95.4	95.4	80.0-120	
Arsenic	100	94.4	94.4	80.0-120	
Barium	100	99.3	99.3	80.0-120	
Beryllium	100	96.3	96.3	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3651428-2 05/07/21 00:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cadmium	100	95.2	95.2	80.0-120	
Calcium	1000	981	98.1	80.0-120	
Chromium	100	98.4	98.4	80.0-120	
Cobalt	100	97.9	97.9	80.0-120	
Copper	100	95.1	95.1	80.0-120	
Iron	1000	969	96.9	80.0-120	
Lead	100	96.8	96.8	80.0-120	
Magnesium	1000	991	99.1	80.0-120	
Manganese	100	96.3	96.3	80.0-120	
Nickel	100	98.0	98.0	80.0-120	
Potassium	1000	1030	103	80.0-120	
Selenium	100	97.1	97.1	80.0-120	
Silver	20.0	17.5	87.6	80.0-120	
Thallium	100	96.0	96.0	80.0-120	
Vanadium	100	94.4	94.4	80.0-120	
Zinc	100	96.7	96.7	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3651623-2 05/07/21 10:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sodium	1000	1020	102	80.0-120	

L1346268-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346268-16 05/07/21 00:44 • (MS) R3651428-5 05/07/21 00:52 • (MSD) R3651428-6 05/07/21 00:54

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 %
Aluminum	1040	3370	4040	4710	64.3	129	1	75.0-125	J6	J5	15.5	20
Antimony	104	U	82.6	80.3	79.3	77.2	1	75.0-125			2.77	20
Arsenic	104	2.56	95.5	94.5	89.3	88.3	1	75.0-125			1.07	20
Barium	104	8.09	106	106	94.4	94.3	1	75.0-125			0.112	20
Beryllium	104	0.379	96.7	95.8	92.5	91.6	1	75.0-125			0.945	20
Cadmium	104	0.0498	96.0	94.9	92.1	91.1	1	75.0-125			1.16	20
Calcium	1040	93.1	1060	1060	92.8	92.5	1	75.0-125			0.342	20
Chromium	104	9.04	105	104	92.5	91.3	1	75.0-125			1.20	20
Cobalt	104	1.85	102	101	96.4	95.5	1	75.0-125			0.912	20

L1346268-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346268-16 05/07/21 00:44 • (MS) R3651428-5 05/07/21 00:52 • (MSD) R3651428-6 05/07/21 00:54

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	%	%		%			%	%
Copper	104	5.38	99.5	98.6	90.4	89.5	1	75.0-125			0.952	20
Iron	1040	9230	6690	6790	0.000	0.000	1	75.0-125	V	V	1.45	20
Lead	104	2.31	101	100	94.6	93.8	1	75.0-125			0.814	20
Magnesium	1040	912	1750	1760	80.4	81.8	1	75.0-125			0.802	20
Manganese	104	30.4	116	117	82.0	82.8	1	75.0-125			0.689	20
Nickel	104	4.64	105	104	96.3	95.9	1	75.0-125			0.388	20
Potassium	1040	908	1620	1650	68.5	70.9	1	75.0-125	J6	J6	1.49	20
Selenium	104	U	97.4	97.4	93.6	93.5	1	75.0-125			0.0629	20
Silver	20.8	U	17.6	17.3	84.6	83.2	1	75.0-125			1.73	20
Thallium	104	U	97.4	96.5	93.5	92.7	1	75.0-125			0.943	20
Vanadium	104	11.6	101	101	86.0	85.6	1	75.0-125			0.441	20
Zinc	104	16.9	109	108	88.3	87.8	1	75.0-125			0.544	20

L1346268-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346268-16 05/07/21 10:06 • (MS) R3651623-5 05/07/21 10:13 • (MSD) R3651623-6 05/07/21 10:16

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	%	%		%			%	%
Sodium	1040	110	1020	1010	87.2	86.2	1	75.0-125			1.05	20

Method Blank (MB)

(MB) R3651621-1 05/07/21 07:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aluminum	U		6.08	10.0
Antimony	U		0.544	2.00
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Beryllium	U		0.0315	0.200
Cadmium	U		0.0471	0.500
Calcium	U		10.6	100
Chromium	U		0.133	1.00
Cobalt	U		0.0811	1.00
Copper	U		0.400	2.00
Iron	U		2.24	10.0
Lead	U		0.208	0.500
Magnesium	U		7.38	100
Manganese	U		0.133	1.00
Nickel	U		0.132	2.00
Potassium	U		20.9	100
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Sodium	U		41.2	100
Thallium	U		0.394	2.00
Vanadium	U		0.506	2.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3651621-2 05/07/21 07:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	1000	980	98.0	80.0-120	
Antimony	100	95.1	95.1	80.0-120	
Arsenic	100	96.5	96.5	80.0-120	
Barium	100	100	100	80.0-120	
Beryllium	100	101	101	80.0-120	
Cadmium	100	94.6	94.6	80.0-120	
Calcium	1000	993	99.3	80.0-120	
Chromium	100	97.6	97.6	80.0-120	
Cobalt	100	99.4	99.4	80.0-120	
Copper	100	96.9	96.9	80.0-120	
Iron	1000	977	97.7	80.0-120	

QUALITY CONTROL SUMMARY

L1346268-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,17,18,19,20,21

Laboratory Control Sample (LCS)

(LCS) R3651621-2 05/07/21 07:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	97.5	97.5	80.0-120	
Magnesium	1000	1000	100	80.0-120	
Manganese	100	98.2	98.2	80.0-120	
Nickel	100	99.0	99.0	80.0-120	
Potassium	1000	969	96.9	80.0-120	
Selenium	100	97.0	97.0	80.0-120	
Silver	20.0	17.5	87.5	80.0-120	
Sodium	1000	984	98.4	80.0-120	
Thallium	100	95.7	95.7	80.0-120	
Vanadium	100	99.6	99.6	80.0-120	
Zinc	100	96.1	96.1	80.0-120	

L1346268-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346268-06 05/07/21 07:44 • (MS) R3651621-5 05/07/21 07:52 • (MSD) R3651621-6 05/07/21 07:54

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 %
Aluminum	1240	5470	6000	7040	42.5	127	1	75.0-125	V	V	16.0	20
Antimony	124	0.891	91.4	94.2	73.1	75.3	1	75.0-125	J6		2.99	20
Arsenic	124	2.50	123	124	97.6	98.4	1	75.0-125			0.756	20
Barium	124	34.5	156	157	98.3	99.3	1	75.0-125			0.745	20
Beryllium	124	0.724	126	128	101	103	1	75.0-125			1.16	20
Cadmium	124	5.95	125	127	96.2	97.3	1	75.0-125			1.08	20
Calcium	1240	10100	9820	8840	0.000	0.000	1	75.0-125	V	V	10.5	20
Chromium	124	9.48	129	131	96.3	97.8	1	75.0-125			1.45	20
Cobalt	124	4.92	130	132	101	102	1	75.0-125			1.43	20
Copper	124	10.4	133	134	98.9	99.8	1	75.0-125			0.828	20
Iron	1240	6720	4460	4650	0.000	0.000	1	75.0-125	V	V	4.22	20
Lead	124	6030	6630	4650	491	0.000	1	75.0-125	V	J3 V	35.1	20
Magnesium	1240	1420	1910	1980	40.1	45.6	1	75.0-125	J6	J6	3.50	20
Manganese	124	60.4	172	174	90.3	91.3	1	75.0-125			0.734	20
Nickel	124	10.7	134	135	99.2	100	1	75.0-125			1.11	20
Potassium	1240	960	1840	1800	71.0	68.2	1	75.0-125	J6	J6	1.95	20
Selenium	124	U	122	122	98.4	98.6	1	75.0-125			0.172	20
Silver	24.8	U	22.4	22.6	90.3	91.2	1	75.0-125			0.926	20
Sodium	1240	200	1350	1370	92.7	94.1	1	75.0-125			1.35	20
Thallium	124	U	115	114	93.0	91.9	1	75.0-125			1.10	20
Vanadium	124	31.2	149	150	94.8	95.7	1	75.0-125			0.769	20
Zinc	124	2120	2630	1570	411	0.000	1	75.0-125	E V	J3 V	50.4	20

Method Blank (MB)

(MB) R3654753-1 05/14/21 23:36

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Aluminum	U		18.5	100
Antimony	U		1.03	4.00
Arsenic	U		0.180	2.00
Barium	U		0.381	20.0
Beryllium	U		0.190	2.00
Cadmium	U		0.150	1.00
Calcium	U		93.6	1000
Chromium	U		1.24	2.00
Copper	1.60	J	1.51	5.00
Cobalt	U		0.0596	2.00
Iron	U		28.1	100
Lead	U		0.849	2.00
Magnesium	U		73.5	1000
Manganese	U		0.704	5.00
Nickel	U		0.816	2.00
Potassium	U		108	2000
Selenium	U		0.300	2.00
Silver	0.288	J	0.0700	2.00
Sodium	U		376	2000
Thallium	U		0.121	2.00
Vanadium	U		0.664	5.00
Zinc	U		3.02	25.0

Laboratory Control Sample (LCS)

(LCS) R3654753-2 05/14/21 23:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	5000	4640	92.9	80.0-120	
Antimony	50.0	48.5	97.0	80.0-120	
Arsenic	50.0	45.5	91.0	80.0-120	
Barium	50.0	45.0	89.9	80.0-120	
Beryllium	50.0	41.0	81.9	80.0-120	
Cadmium	50.0	49.9	99.8	80.0-120	
Calcium	5000	4710	94.2	80.0-120	
Chromium	50.0	48.9	97.7	80.0-120	
Copper	50.0	48.7	97.3	80.0-120	
Cobalt	50.0	48.4	96.9	80.0-120	
Iron	5000	4820	96.5	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3654753-2 05/14/21 23:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	50.0	45.5	91.1	80.0-120	
Magnesium	5000	4790	95.8	80.0-120	
Manganese	50.0	47.9	95.8	80.0-120	
Nickel	50.0	48.0	96.0	80.0-120	
Potassium	5000	4800	96.0	80.0-120	
Selenium	50.0	49.7	99.3	80.0-120	
Silver	50.0	47.0	93.9	80.0-120	
Sodium	5000	5000	100	80.0-120	
Thallium	50.0	44.3	88.5	80.0-120	
Vanadium	50.0	47.2	94.3	80.0-120	
Zinc	500	466	93.1	80.0-120	

L1346896-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346896-02 05/14/21 23:43 • (MS) R3654753-4 05/14/21 23:49 • (MSD) R3654753-5 05/14/21 23:53

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	5000	32.0	4670	4600	92.9	91.3	1	75.0-125			1.68	20
Antimony	50.0	U	49.9	50.9	99.9	102	1	75.0-125			1.87	20
Arsenic	50.0	U	46.0	46.5	92.0	93.0	1	75.0-125			1.15	20
Barium	50.0	1210	1260	1260	96.4	103	1	75.0-125			0.278	20
Beryllium	50.0	U	40.8	40.8	81.5	81.6	1	75.0-125			0.0704	20
Cadmium	50.0	U	49.8	50.1	99.6	100	1	75.0-125			0.688	20
Calcium	5000	19600	24100	23900	90.7	86.2	1	75.0-125			0.935	20
Chromium	50.0	U	48.8	48.5	97.6	97.0	1	75.0-125			0.563	20
Copper	50.0	4.14	51.5	50.4	94.7	92.5	1	75.0-125			2.15	20
Cobalt	50.0	0.0991	48.4	48.3	96.5	96.3	1	75.0-125			0.183	20
Potassium	5000	8570	13200	13100	92.3	90.3	1	75.0-125			0.779	20
Iron	5000	529	5280	5220	95.0	93.7	1	75.0-125			1.21	20
Lead	50.0	3.14	49.2	49.5	92.2	92.7	1	75.0-125			0.469	20
Magnesium	5000	4200	8830	8810	92.6	92.2	1	75.0-125			0.227	20
Manganese	50.0	180	221	221	81.1	81.7	1	75.0-125			0.133	20
Nickel	50.0	U	48.3	48.6	96.6	97.2	1	75.0-125			0.642	20
Selenium	50.0	U	53.1	54.9	106	110	1	75.0-125			3.35	20
Silver	50.0	0.335	49.9	48.1	99.1	95.5	1	75.0-125			3.74	20
Sodium	5000	20700	24500	24400	75.5	74.5	1	75.0-125		V	0.202	20
Thallium	50.0	U	46.0	46.1	91.9	92.2	1	75.0-125			0.309	20
Vanadium	50.0	U	47.8	48.2	95.7	96.4	1	75.0-125			0.711	20
Zinc	500	4.40	470	474	93.2	93.9	1	75.0-125			0.721	20

Method Blank (MB)

(MB) R3651233-4 05/04/21 15:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Benzene	U		0.0941	1.00
Bromodichloromethane	U		0.136	1.00
Bromochloromethane	U		0.128	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
Cyclohexane	U		0.188	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
Ethylbenzene	U		0.137	1.00
2-Hexanone	U		0.787	10.0
Isopropylbenzene	U		0.105	1.00
2-Butanone (MEK)	U		1.19	10.0
Methyl Acetate	U		1.29	20.0
Methyl Cyclohexane	U		0.660	1.00
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
Styrene	U		0.118	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00

Method Blank (MB)

(MB) R3651233-4 05/04/21 15:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
tert-Butyl alcohol	U		4.06	5.00
(S) Toluene-d8	*101*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

(MB) R3651233-4 05/04/21 15:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l	CAS #

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651233-1 05/04/21 14:26 • (LCSD) R3651233-2 05/04/21 14:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	33.5	32.8	134	131	40.0-160			2.11	20
Benzene	5.00	4.45	4.58	89.0	91.6	70.0-130			2.88	20
Bromodichloromethane	5.00	5.29	5.37	106	107	70.0-130			1.50	20
Bromochloromethane	5.00	5.32	5.44	106	109	70.0-130			2.23	20
Bromoform	5.00	5.19	5.43	104	109	70.0-130			4.52	20
Bromomethane	5.00	4.64	4.44	92.8	88.8	40.0-160			4.41	20
Carbon disulfide	5.00	4.39	4.55	87.8	91.0	40.0-160			3.58	20
Carbon tetrachloride	5.00	5.22	5.16	104	103	70.0-130			1.16	20
Chlorobenzene	5.00	4.83	4.96	96.6	99.2	70.0-130			2.66	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651233-1 05/04/21 14:26 • (LCSD) R3651233-2 05/04/21 14:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chlorodibromomethane	5.00	5.16	5.51	103	110	70.0-130			6.56	20
Chloroethane	5.00	5.32	5.47	106	109	40.0-160			2.78	20
Chloroform	5.00	5.26	5.41	105	108	70.0-130			2.81	20
Chloromethane	5.00	4.96	5.37	99.2	107	40.0-160			7.94	20
Cyclohexane	5.00	4.35	4.34	87.0	86.8	70.0-130			0.230	30
1,2-Dibromo-3-Chloropropane	5.00	4.85	5.54	97.0	111	40.0-160			13.3	20
1,2-Dibromoethane	5.00	5.24	5.49	105	110	70.0-130			4.66	20
1,2-Dichlorobenzene	5.00	4.62	4.90	92.4	98.0	70.0-130			5.88	20
1,3-Dichlorobenzene	5.00	4.65	4.93	93.0	98.6	70.0-130			5.85	20
1,4-Dichlorobenzene	5.00	4.95	5.12	99.0	102	70.0-130			3.38	20
Dichlorodifluoromethane	5.00	4.76	5.16	95.2	103	40.0-160			8.06	20
1,1-Dichloroethane	5.00	5.15	5.42	103	108	70.0-130			5.11	20
1,2-Dichloroethane	5.00	5.55	5.47	111	109	70.0-130			1.45	20
1,1-Dichloroethene	5.00	4.77	5.00	95.4	100	70.0-130			4.71	20
cis-1,2-Dichloroethene	5.00	4.60	4.78	92.0	95.6	70.0-130			3.84	20
trans-1,2-Dichloroethene	5.00	5.05	5.14	101	103	70.0-130			1.77	20
1,2-Dichloropropane	5.00	5.12	5.21	102	104	70.0-130			1.74	20
cis-1,3-Dichloropropene	5.00	5.01	5.11	100	102	70.0-130			1.98	20
trans-1,3-Dichloropropene	5.00	5.09	5.34	102	107	70.0-130			4.79	20
Ethylbenzene	5.00	4.72	5.01	94.4	100	70.0-130			5.96	20
2-Hexanone	25.0	25.5	26.8	102	107	40.0-160			4.97	20
Isopropylbenzene	5.00	5.06	5.22	101	104	70.0-130			3.11	20
2-Butanone (MEK)	25.0	29.6	31.0	118	124	40.0-160			4.62	20
Methyl Acetate	25.0	27.8	28.0	111	112	70.0-130			0.717	30
Methyl Cyclohexane	5.00	4.34	4.46	86.8	89.2	40.0-160			2.73	30
Methylene Chloride	5.00	4.78	4.96	95.6	99.2	70.0-130			3.70	20
4-Methyl-2-pentanone (MIBK)	25.0	28.6	30.2	114	121	40.0-160			5.44	20
Methyl tert-butyl ether	5.00	5.10	5.20	102	104	70.0-130			1.94	20
Naphthalene	5.00	5.15	5.60	103	112	40.0-160			8.37	20
Styrene	5.00	4.74	4.85	94.8	97.0	70.0-130			2.29	20
1,1,2,2-Tetrachloroethane	5.00	4.81	5.07	96.2	101	70.0-130			5.26	20
Tetrachloroethene	5.00	5.15	5.08	103	102	70.0-130			1.37	20
Toluene	5.00	4.48	4.58	89.6	91.6	70.0-130			2.21	20
1,1,2-Trichlorotrifluoroethane	5.00	4.51	4.69	90.2	93.8	70.0-130			3.91	20
1,2,3-Trichlorobenzene	5.00	5.29	5.44	106	109	70.0-130			2.80	20
1,2,4-Trichlorobenzene	5.00	4.86	5.14	97.2	103	70.0-130			5.60	20
1,1,1-Trichloroethane	5.00	5.55	5.45	111	109	70.0-130			1.82	20
1,1,2-Trichloroethane	5.00	5.13	5.31	103	106	70.0-130			3.45	20
Trichloroethene	5.00	5.04	5.31	101	106	70.0-130			5.22	20
Trichlorofluoromethane	5.00	5.30	5.25	106	105	40.0-160			0.948	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651233-1 05/04/21 14:26 • (LCSD) R3651233-2 05/04/21 14:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Vinyl chloride	5.00	3.61	3.72	72.2	74.4	70.0-130			3.00	20
Xylenes, Total	15.0	14.2	14.9	94.7	99.3	70.0-130			4.81	20
tert-Butyl alcohol	25.0	30.4	33.9	122	136	50.0-150			10.9	20
(S) Toluene-d8				*99.6*	*104*	*80.0-120*				
(S) 4-Bromofluorobenzene				*101*	*106*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*115*	*118*	*70.0-130*				

Method Blank (MB)

(MB) R3652084-4 05/08/21 22:24

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Benzene	U		0.0941	1.00
Bromochloromethane	U		0.128	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
Cyclohexane	U		0.188	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
Ethylbenzene	U		0.137	1.00
2-Hexanone	U		0.787	10.0
Isopropylbenzene	U		0.105	1.00
2-Butanone (MEK)	U		1.19	10.0
Methyl Acetate	U		1.29	20.0
Methyl Cyclohexane	U		0.660	1.00
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
Styrene	U		0.118	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00

Method Blank (MB)

(MB) R3652084-4 05/08/21 22:24

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
tert-Butyl alcohol	U		4.06	5.00
(S) Toluene-d8	*102*			*80.0-120*
(S) 4-Bromofluorobenzene	*103*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

(MB) R3652084-4 05/08/21 22:24

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l	CAS #

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652084-1 05/08/21 21:03 • (LCSD) R3652084-2 05/08/21 21:23

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	35.3	33.1	141	132	40.0-160			6.43	20
Benzene	5.00	4.97	4.83	99.4	96.6	70.0-130			2.86	20
Bromochloromethane	5.00	4.54	4.60	90.8	92.0	70.0-130			1.31	20
Bromodichloromethane	5.00	5.07	4.95	101	99.0	70.0-130			2.40	20
Bromoform	5.00	4.93	5.09	98.6	102	70.0-130			3.19	20
Bromomethane	5.00	4.17	3.88	83.4	77.6	40.0-160			7.20	20
Carbon disulfide	5.00	4.09	4.05	81.8	81.0	40.0-160			0.983	20
Carbon tetrachloride	5.00	4.22	3.99	84.4	79.8	70.0-130			5.60	20
Chlorobenzene	5.00	4.45	4.58	89.0	91.6	70.0-130			2.88	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652084-1 05/08/21 21:03 • (LCSD) R3652084-2 05/08/21 21:23

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chlorodibromomethane	5.00	4.62	4.79	92.4	95.8	70.0-130			3.61	20
Chloroethane	5.00	4.75	4.28	95.0	85.6	40.0-160			10.4	20
Chloroform	5.00	4.72	4.57	94.4	91.4	70.0-130			3.23	20
Chloromethane	5.00	4.99	4.90	99.8	98.0	40.0-160			1.82	20
Cyclohexane	5.00	3.53	3.20	70.6	64.0	70.0-130		J4	9.81	30
1,2-Dibromo-3-Chloropropane	5.00	4.81	5.44	96.2	109	40.0-160			12.3	20
1,2-Dibromoethane	5.00	4.61	4.60	92.2	92.0	70.0-130			0.217	20
1,2-Dichlorobenzene	5.00	4.72	4.82	94.4	96.4	70.0-130			2.10	20
1,3-Dichlorobenzene	5.00	4.25	4.48	85.0	89.6	70.0-130			5.27	20
1,4-Dichlorobenzene	5.00	4.26	4.50	85.2	90.0	70.0-130			5.48	20
Dichlorodifluoromethane	5.00	5.41	5.03	108	101	40.0-160			7.28	20
1,1-Dichloroethane	5.00	4.97	4.80	99.4	96.0	70.0-130			3.48	20
1,2-Dichloroethane	5.00	4.80	4.71	96.0	94.2	70.0-130			1.89	20
1,1-Dichloroethene	5.00	4.32	4.06	86.4	81.2	70.0-130			6.21	20
cis-1,2-Dichloroethene	5.00	4.55	4.51	91.0	90.2	70.0-130			0.883	20
trans-1,2-Dichloroethene	5.00	4.19	4.07	83.8	81.4	70.0-130			2.91	20
1,2-Dichloropropane	5.00	5.06	4.91	101	98.2	70.0-130			3.01	20
cis-1,3-Dichloropropene	5.00	5.23	5.07	105	101	70.0-130			3.11	20
trans-1,3-Dichloropropene	5.00	4.91	4.85	98.2	97.0	70.0-130			1.23	20
Ethylbenzene	5.00	4.55	4.37	91.0	87.4	70.0-130			4.04	20
2-Hexanone	25.0	28.2	29.8	113	119	40.0-160			5.52	20
Isopropylbenzene	5.00	4.81	4.70	96.2	94.0	70.0-130			2.31	20
2-Butanone (MEK)	25.0	31.2	32.0	125	128	40.0-160			2.53	20
Methylene Chloride	5.00	4.67	4.58	93.4	91.6	70.0-130			1.95	20
Methyl Cyclohexane	5.00	4.06	3.84	81.2	76.8	40.0-160			5.57	30
4-Methyl-2-pentanone (MIBK)	25.0	27.7	29.3	111	117	40.0-160			5.61	20
Methyl tert-butyl ether	5.00	3.97	3.75	79.4	75.0	70.0-130			5.70	20
Naphthalene	5.00	5.33	5.59	107	112	40.0-160			4.76	20
Styrene	5.00	4.85	4.81	97.0	96.2	70.0-130			0.828	20
1,1,2,2-Tetrachloroethane	5.00	4.67	5.19	93.4	104	70.0-130			10.5	20
1,1,2-Trichlorotrifluoroethane	5.00	3.51	1.67	70.2	33.4	70.0-130		J3 J4	71.0	20
Tetrachloroethene	5.00	3.95	3.83	79.0	76.6	70.0-130			3.08	20
Toluene	5.00	4.14	4.13	82.8	82.6	70.0-130			0.242	20
1,2,3-Trichlorobenzene	5.00	4.23	4.20	84.6	84.0	70.0-130			0.712	20
1,2,4-Trichlorobenzene	5.00	4.66	4.39	93.2	87.8	70.0-130			5.97	20
1,1,1-Trichloroethane	5.00	4.01	3.83	80.2	76.6	70.0-130			4.59	20
1,1,2-Trichloroethane	5.00	4.56	4.74	91.2	94.8	70.0-130			3.87	20
Trichloroethene	5.00	4.65	4.64	93.0	92.8	70.0-130			0.215	20
Trichlorofluoromethane	5.00	4.36	4.19	87.2	83.8	40.0-160			3.98	20
Vinyl chloride	5.00	4.62	4.39	92.4	87.8	70.0-130			5.11	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652084-1 05/08/21 21:03 • (LCSD) R3652084-2 05/08/21 21:23

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Xylenes, Total	15.0	14.1	13.8	94.0	92.0	70.0-130			2.15	20
Methyl Acetate	25.0	29.1	29.5	116	118	70.0-130			1.37	30
tert-Butyl alcohol	25.0	41.3	38.4	165	154	50.0-150	J4	J4	7.28	20
(S) Toluene-d8				*99.9*	*103*	*80.0-120*				
(S) 4-Bromofluorobenzene				*104*	*104*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*113*	*113*	*70.0-130*				

L1346446-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346446-12 05/09/21 05:12 • (MS) R3652084-5 05/09/21 07:13 • (MSD) R3652084-6 05/09/21 07:33

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	U	41.3	41.8	165	167	1	40.0-160	J5	J5	1.20	20
Bromodichloromethane	5.00	U	6.41	6.65	128	133	1	70.0-130		J5	3.68	20
Bromochloromethane	5.00	U	5.62	6.06	112	121	1	70.0-130			7.53	20
Bromoform	5.00	U	6.16	6.25	123	125	1	70.0-130			1.45	20
Bromomethane	5.00	U	5.06	5.25	101	105	1	40.0-160			3.69	20
Carbon disulfide	5.00	U	4.18	4.05	83.6	81.0	1	40.0-160			3.16	20
Carbon tetrachloride	5.00	U	5.44	5.13	109	103	1	70.0-130			5.87	20
Chlorobenzene	5.00	U	5.79	5.87	116	117	1	70.0-130			1.37	20
Chlorodibromomethane	5.00	U	6.04	6.16	121	123	1	70.0-130			1.97	20
Chloroethane	5.00	U	6.17	5.96	123	119	1	40.0-160			3.46	20
Chloroform	5.00	U	6.07	6.26	121	125	1	70.0-130			3.08	20
Chloromethane	5.00	U	6.36	6.21	127	124	1	40.0-160			2.39	20
1,2-Dibromo-3-Chloropropane	5.00	U	6.33	7.28	127	146	1	40.0-160			14.0	20
1,2-Dibromoethane	5.00	U	5.56	5.83	111	117	1	70.0-130			4.74	20
1,2-Dichlorobenzene	5.00	U	6.05	6.64	121	133	1	70.0-130		J5	9.30	20
1,3-Dichlorobenzene	5.00	U	5.71	6.10	114	122	1	70.0-130			6.60	20
1,4-Dichlorobenzene	5.00	U	5.41	5.97	108	119	1	70.0-130			9.84	20
Dichlorodifluoromethane	5.00	U	7.61	6.08	152	122	1	40.0-160		J3	22.4	20
1,1-Dichloroethane	5.00	U	6.49	6.53	130	131	1	70.0-130		J5	0.614	20
1,2-Dichloroethane	5.00	U	6.01	6.24	120	125	1	70.0-130			3.76	20
1,1-Dichloroethene	5.00	U	5.42	4.86	108	97.2	1	70.0-130			10.9	20
cis-1,2-Dichloroethene	5.00	U	6.01	6.06	120	121	1	70.0-130			0.828	20
trans-1,2-Dichloroethene	5.00	U	5.81	5.44	116	109	1	70.0-130			6.58	20
1,2-Dichloropropane	5.00	U	6.50	6.82	130	136	1	70.0-130		J5	4.80	20
cis-1,3-Dichloropropene	5.00	U	6.27	6.47	125	129	1	70.0-130			3.14	20
trans-1,3-Dichloropropene	5.00	U	5.87	6.27	117	125	1	70.0-130			6.59	20
2-Hexanone	25.0	U	34.9	36.1	140	144	1	40.0-160			3.38	20

L1346446-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346446-12 05/09/21 05:12 • (MS) R3652084-5 05/09/21 07:13 • (MSD) R3652084-6 05/09/21 07:33

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Isopropylbenzene	5.00	U	6.42	6.48	128	130	1	70.0-130			0.930	20
2-Butanone (MEK)	25.0	U	38.1	39.3	152	157	1	40.0-160			3.10	20
Methylene Chloride	5.00	U	4.68	4.62	93.6	92.4	1	70.0-130			1.29	20
4-Methyl-2-pentanone (MIBK)	25.0	U	34.4	36.1	138	144	1	40.0-160			4.82	20
Methyl tert-butyl ether	5.00	U	4.36	4.75	87.2	95.0	1	70.0-130			8.56	20
Benzene	5.00	0.293	6.62	6.68	127	128	1	70.0-130			0.902	20
Naphthalene	5.00	U	7.28	8.20	146	164	1	40.0-160		J5	11.9	20
Styrene	5.00	U	6.23	6.53	125	131	1	70.0-130		J5	4.70	20
1,1,2,2-Tetrachloroethane	5.00	U	5.97	6.74	119	135	1	70.0-130		J5	12.1	20
Tetrachloroethene	5.00	U	5.21	4.83	104	96.6	1	70.0-130			7.57	20
1,1,2-Trichlorotrifluoroethane	5.00	U	2.03	1.98	40.6	39.6	1	70.0-130	J6	J6	2.49	20
1,2,3-Trichlorobenzene	5.00	U	5.67	6.14	113	123	1	70.0-130			7.96	20
1,2,4-Trichlorobenzene	5.00	U	6.16	6.74	123	135	1	70.0-130		J5	8.99	20
1,1,1-Trichloroethane	5.00	U	5.31	4.89	106	97.8	1	70.0-130			8.24	20
1,1,2-Trichloroethane	5.00	U	5.66	5.94	113	119	1	70.0-130			4.83	20
Trichloroethene	5.00	U	6.00	5.82	120	116	1	70.0-130			3.05	20
Trichlorofluoromethane	5.00	U	5.18	4.56	104	91.2	1	40.0-160			12.7	20
Vinyl chloride	5.00	0.552	6.78	6.20	125	113	1	70.0-130			8.94	20
Methyl Acetate	25.0	U	35.2	36.1	141	144	1	70.0-130	J5	J5	2.52	30
Cyclohexane	5.00	U	4.35	3.87	87.0	77.4	1	70.0-130			11.7	30
Methyl Cyclohexane	5.00	U	5.45	4.89	109	97.8	1	40.0-160			10.8	30
Ethylbenzene	5.00	U	5.84	5.98	117	120	1	70.0-130			2.37	20
Toluene	5.00	U	5.29	5.36	106	107	1	70.0-130			1.31	20
Xylenes, Total	15.0	U	18.3	18.7	122	125	1	70.0-130			2.16	20
tert-Butyl alcohol	25.0	U	58.9	56.7	236	227	1	50.0-150	J5	J5	3.81	20
(S) Toluene-d8					*99.6*	*100*		*80.0-120*				
(S) 4-Bromofluorobenzene					*105*	*103*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*113*	*110*		*70.0-130*				

Method Blank (MB)

(MB) R3651994-3 05/07/21 12:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Benzene	U		0.000375	0.00100
Bromochloromethane	U		0.000335	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
Carbon disulfide	U		0.000700	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
Cyclohexane	U		0.000268	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
Ethylbenzene	U		0.000300	0.00100
2-Hexanone	U		0.00179	0.0100
Isopropylbenzene	U		0.000425	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methyl Acetate	U		0.00300	0.0200
Methyl Cyclohexane	U		0.000775	0.00100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Styrene	U		0.000223	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
Tetrachloroethene	U		0.000325	0.00100

Method Blank (MB)

(MB) R3651994-3 05/07/21 12:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Toluene	U		0.00123	0.00500
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
Vinyl chloride	U		0.000226	0.00100
Xylenes, Total	U		0.000500	0.00300
(S) Toluene-d8	*114*			*75.0-131*
(S) 4-Bromofluorobenzene	*103*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

(MB) R3651994-3 05/07/21 12:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	CAS #

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651994-1 05/07/21 11:16 • (LCSD) R3651994-2 05/07/21 11:38

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	0.125	0.110	0.120	88.0	96.0	40.0-160			8.70	30
Benzene	0.0250	0.0244	0.0273	97.6	109	70.0-130			11.2	30
Bromodichloromethane	0.0250	0.0238	0.0268	95.2	107	70.0-130			11.9	30
Bromochloromethane	0.0250	0.0239	0.0267	95.6	107	70.0-130			11.1	30
Bromoform	0.0250	0.0249	0.0268	99.6	107	70.0-130			7.35	30
Bromomethane	0.0250	0.0259	0.0279	104	112	40.0-160			7.43	30
Carbon disulfide	0.0250	0.0236	0.0261	94.4	104	40.0-160			10.1	30
Carbon tetrachloride	0.0250	0.0264	0.0293	106	117	70.0-130			10.4	30
Chlorobenzene	0.0250	0.0259	0.0282	104	113	70.0-130			8.50	30
Chlorodibromomethane	0.0250	0.0251	0.0275	100	110	70.0-130			9.13	30
Chloroethane	0.0250	0.0266	0.0289	106	116	40.0-160			8.29	30

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651994-1 05/07/21 11:16 • (LCSD) R3651994-2 05/07/21 11:38

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 %
Chloroform	0.0250	0.0246	0.0271	98.4	108	70.0-130			9.67	30
Chloromethane	0.0250	0.0217	0.0252	86.8	101	40.0-160			14.9	30
1,2-Dibromo-3-Chloropropane	0.0250	0.0239	0.0253	95.6	101	40.0-160			5.69	30
1,2-Dibromoethane	0.0250	0.0240	0.0261	96.0	104	70.0-130			8.38	30
1,2-Dichlorobenzene	0.0250	0.0241	0.0274	96.4	110	70.0-130			12.8	30
1,3-Dichlorobenzene	0.0250	0.0259	0.0287	104	115	70.0-130			10.3	30
1,4-Dichlorobenzene	0.0250	0.0255	0.0284	102	114	70.0-130			10.8	30
Dichlorodifluoromethane	0.0250	0.0227	0.0254	90.8	102	40.0-160			11.2	30
1,1-Dichloroethane	0.0250	0.0244	0.0273	97.6	109	70.0-130			11.2	30
1,2-Dichloroethane	0.0250	0.0229	0.0255	91.6	102	70.0-130			10.7	30
1,1-Dichloroethene	0.0250	0.0253	0.0279	101	112	70.0-130			9.77	30
cis-1,2-Dichloroethene	0.0250	0.0241	0.0269	96.4	108	70.0-130			11.0	30
trans-1,2-Dichloroethene	0.0250	0.0250	0.0277	100	111	70.0-130			10.2	30
1,2-Dichloropropane	0.0250	0.0243	0.0271	97.2	108	70.0-130			10.9	30
cis-1,3-Dichloropropene	0.0250	0.0245	0.0272	98.0	109	70.0-130			10.4	30
trans-1,3-Dichloropropene	0.0250	0.0259	0.0281	104	112	70.0-130			8.15	30
Ethylbenzene	0.0250	0.0249	0.0273	99.6	109	70.0-130			9.20	30
2-Hexanone	0.125	0.112	0.116	89.6	92.8	40.0-160			3.51	30
Isopropylbenzene	0.0250	0.0268	0.0292	107	117	70.0-130			8.57	30
2-Butanone (MEK)	0.125	0.112	0.117	89.6	93.6	40.0-160			4.37	30
Methylene Chloride	0.0250	0.0221	0.0252	88.4	101	70.0-130			13.1	30
4-Methyl-2-pentanone (MIBK)	0.125	0.119	0.125	95.2	100	40.0-160			4.92	30
Methyl tert-butyl ether	0.0250	0.0227	0.0250	90.8	100	70.0-130			9.64	30
Styrene	0.0250	0.0268	0.0294	107	118	70.0-130			9.25	30
1,1,2,2-Tetrachloroethane	0.0250	0.0222	0.0242	88.8	96.8	70.0-130			8.62	30
Tetrachloroethene	0.0250	0.0270	0.0295	108	118	70.0-130			8.85	30
Toluene	0.0250	0.0255	0.0277	102	111	70.0-130			8.27	30
1,1,2-Trichlorotrifluoroethane	0.0250	0.0255	0.0284	102	114	70.0-130			10.8	30
1,2,3-Trichlorobenzene	0.0250	0.0258	0.0290	103	116	70.0-130			11.7	30
1,2,4-Trichlorobenzene	0.0250	0.0272	0.0307	109	123	70.0-130			12.1	30
1,1,1-Trichloroethane	0.0250	0.0253	0.0280	101	112	70.0-130			10.1	30
1,1,2-Trichloroethane	0.0250	0.0242	0.0263	96.8	105	70.0-130			8.32	30
Trichloroethene	0.0250	0.0256	0.0288	102	115	70.0-130			11.8	30
Trichlorofluoromethane	0.0250	0.0254	0.0277	102	111	40.0-160			8.66	30
Vinyl chloride	0.0250	0.0241	0.0267	96.4	107	70.0-130			10.2	30
Xylenes, Total	0.0750	0.0763	0.0835	102	111	70.0-130			9.01	30
Methyl Cyclohexane	0.0250	0.0252	0.0280	101	112	40.0-160			10.5	30
Cyclohexane	0.0250	0.0247	0.0274	98.8	110	70.0-130			10.4	30
Methyl Acetate	0.125	0.110	0.116	88.0	92.8	70.0-130			5.31	30
(S) Toluene-d8				*112*	*112*	*75.0-131*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651994-1 05/07/21 11:16 • (LCSD) R3651994-2 05/07/21 11:38

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 %
(S) 4-Bromofluorobenzene				*106*	*104*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*114*	*114*	*70.0-130*				

Method Blank (MB)

(MB) R3652024-3 05/08/21 15:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Benzene	U		0.000375	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromochloromethane	U		0.000335	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
Carbon disulfide	U		0.000700	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
Cyclohexane	U		0.000268	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
Ethylbenzene	U		0.000300	0.00100
2-Hexanone	U		0.00179	0.0100
Isopropylbenzene	U		0.000425	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methyl Acetate	U		0.00300	0.0200
Methyl Cyclohexane	U		0.000775	0.00100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Styrene	U		0.000223	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
Tetrachloroethene	U		0.000325	0.00100

Method Blank (MB)

(MB) R3652024-3 05/08/21 15:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Toluene	U		0.00123	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
Vinyl chloride	U		0.000226	0.00100
Xylenes, Total	0.000771	J	0.000500	0.00300
(S) Toluene-d8	*109*			*75.0-131*
(S) 4-Bromofluorobenzene	*104*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

(MB) R3652024-3 05/08/21 15:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	CAS #

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Laboratory Control Sample (LCS)

(LCS) R3652024-1 05/08/21 14:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.125	0.246	197	40.0-160	E J4
Benzene	0.0250	0.0245	98.0	70.0-130	
Bromodichloromethane	0.0250	0.0251	100	70.0-130	
Bromochloromethane	0.0250	0.0284	114	70.0-130	
Bromoform	0.0250	0.0273	109	70.0-130	
Bromomethane	0.0250	0.0208	83.2	40.0-160	
Carbon disulfide	0.0250	0.0201	80.4	40.0-160	
Carbon tetrachloride	0.0250	0.0266	106	70.0-130	
Chlorobenzene	0.0250	0.0260	104	70.0-130	
Chlorodibromomethane	0.0250	0.0261	104	70.0-130	
Chloroethane	0.0250	0.0217	86.8	40.0-160	

Laboratory Control Sample (LCS)

(LCS) R3652024-1 05/08/21 14:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloroform	0.0250	0.0266	106	70.0-130	
Chloromethane	0.0250	0.0214	85.6	40.0-160	
Cyclohexane	0.0250	0.0238	95.2	70.0-130	
1,2-Dibromo-3-Chloropropane	0.0250	0.0231	92.4	40.0-160	
1,2-Dibromoethane	0.0250	0.0245	98.0	70.0-130	
1,2-Dichlorobenzene	0.0250	0.0247	98.8	70.0-130	
1,3-Dichlorobenzene	0.0250	0.0239	95.6	70.0-130	
1,4-Dichlorobenzene	0.0250	0.0238	95.2	70.0-130	
Dichlorodifluoromethane	0.0250	0.0248	99.2	40.0-160	
1,1-Dichloroethane	0.0250	0.0254	102	70.0-130	
1,2-Dichloroethane	0.0250	0.0250	100	70.0-130	
1,1-Dichloroethene	0.0250	0.0250	100	70.0-130	
cis-1,2-Dichloroethene	0.0250	0.0256	102	70.0-130	
trans-1,2-Dichloroethene	0.0250	0.0250	100	70.0-130	
1,2-Dichloropropane	0.0250	0.0248	99.2	70.0-130	
cis-1,3-Dichloropropene	0.0250	0.0252	101	70.0-130	
trans-1,3-Dichloropropene	0.0250	0.0249	99.6	70.0-130	
Ethylbenzene	0.0250	0.0251	100	70.0-130	
2-Hexanone	0.125	0.118	94.4	40.0-160	
Isopropylbenzene	0.0250	0.0268	107	70.0-130	
2-Butanone (MEK)	0.125	0.128	102	40.0-160	
Methyl Acetate	0.125	0.118	94.4	70.0-130	
Methyl Cyclohexane	0.0250	0.0229	91.6	40.0-160	
Methylene Chloride	0.0250	0.0243	97.2	70.0-130	
4-Methyl-2-pentanone (MIBK)	0.125	0.123	98.4	40.0-160	
Methyl tert-butyl ether	0.0250	0.0271	108	70.0-130	
Styrene	0.0250	0.0256	102	70.0-130	
1,1,2,2-Tetrachloroethane	0.0250	0.0220	88.0	70.0-130	
Tetrachloroethene	0.0250	0.0255	102	70.0-130	
Toluene	0.0250	0.0244	97.6	70.0-130	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0279	112	70.0-130	
1,2,3-Trichlorobenzene	0.0250	0.0244	97.6	70.0-130	
1,2,4-Trichlorobenzene	0.0250	0.0263	105	70.0-130	
1,1,1-Trichloroethane	0.0250	0.0271	108	70.0-130	
1,1,2-Trichloroethane	0.0250	0.0244	97.6	70.0-130	
Trichloroethene	0.0250	0.0261	104	70.0-130	
Trichlorofluoromethane	0.0250	0.0282	113	40.0-160	
Vinyl chloride	0.0250	0.0229	91.6	70.0-130	
Xylenes, Total	0.0750	0.0761	101	70.0-130	
(S) Toluene-d8			*109*	*75.0-131*	

Laboratory Control Sample (LCS)

(LCS) R3652024-1 05/08/21 14:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) 4-Bromofluorobenzene			*108*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*117*	*70.0-130*	

L1346298-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346298-08 05/08/21 17:36 • (MS) R3652024-4 05/08/21 20:20 • (MSD) R3652024-5 05/08/21 20:41

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 %
Acetone	0.124	0.0833	0.384	0.308	243	180	1	40.0-160	E J5	E J5	22.0	30
Bromodichloromethane	0.0248	U	0.0245	0.0203	98.8	81.2	1	70.0-130			18.7	30
Bromochloromethane	0.0248	U	0.0279	0.0233	112	93.2	1	70.0-130			18.0	30
Bromoform	0.0248	U	0.0250	0.0189	101	75.6	1	70.0-130			27.8	30
Bromomethane	0.0248	U	0.0206	0.0170	83.1	68.0	1	40.0-160			19.1	30
Carbon disulfide	0.0248	U	0.0233	0.0202	94.0	80.8	1	40.0-160			14.3	30
Carbon tetrachloride	0.0248	U	0.0284	0.0241	115	96.4	1	70.0-130			16.4	30
Chlorobenzene	0.0248	U	0.0220	0.0169	88.7	67.6	1	70.0-130		J6	26.2	30
Chlorodibromomethane	0.0248	U	0.0239	0.0189	96.4	75.6	1	70.0-130			23.4	30
Chloroethane	0.0248	U	0.0225	0.0202	90.7	80.8	1	40.0-160			10.8	30
Chloroform	0.0248	U	0.0270	0.0228	109	91.2	1	70.0-130			16.9	30
Chloromethane	0.0248	U	0.0237	0.0187	95.6	74.8	1	40.0-160			23.6	30
1,2-Dibromo-3-Chloropropane	0.0248	U	0.0261	0.0175	105	70.0	1	40.0-160		J3	39.4	30
1,2-Dichlorobenzene	0.0248	U	0.0158	0.00947	63.7	37.9	1	70.0-130	J6	J3 J6	50.1	30
1,3-Dichlorobenzene	0.0248	U	0.0155	0.00972	62.5	38.9	1	70.0-130	J6	J3 J6	45.8	30
1,4-Dichlorobenzene	0.0248	U	0.0151	0.00941	60.9	37.6	1	70.0-130	J6	J3 J6	46.4	30
Dichlorodifluoromethane	0.0248	U	0.0276	0.0225	111	90.0	1	40.0-160			20.4	30
1,1-Dichloroethane	0.0248	U	0.0268	0.0228	108	91.2	1	70.0-130			16.1	30
1,1-Dichloroethene	0.0248	U	0.0269	0.0234	108	93.6	1	70.0-130			13.9	30
cis-1,2-Dichloroethene	0.0248	U	0.0256	0.0218	103	87.2	1	70.0-130			16.0	30
trans-1,2-Dichloroethene	0.0248	U	0.0262	0.0226	106	90.4	1	70.0-130			14.8	30
1,2-Dichloropropane	0.0248	U	0.0255	0.0215	103	86.0	1	70.0-130			17.0	30
cis-1,3-Dichloropropene	0.0248	U	0.0237	0.0193	95.6	77.2	1	70.0-130			20.5	30
trans-1,3-Dichloropropene	0.0248	U	0.0221	0.0174	89.1	69.6	1	70.0-130		J6	23.8	30
2-Hexanone	0.124	U	0.145	0.105	117	84.0	1	40.0-160		J3	32.0	30
Isopropylbenzene	0.0248	U	0.0251	0.0192	101	76.8	1	70.0-130			26.6	30
Benzene	0.0248	0.00138	0.0266	0.0238	102	89.7	1	70.0-130			11.1	30
2-Butanone (MEK)	0.124	0.0100	0.192	0.151	147	113	1	40.0-160			23.9	30
Methylene Chloride	0.0248	U	0.0245	0.0211	98.8	84.4	1	70.0-130			14.9	30
4-Methyl-2-pentanone (MIBK)	0.124	0.00103	0.171	0.131	137	104	1	40.0-160			26.5	30
Styrene	0.0248	0.000323	0.0155	0.0101	61.2	39.1	1	70.0-130	J6	J3 J6	42.2	30

L1346298-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346298-08 05/08/21 17:36 • (MS) R3652024-4 05/08/21 20:20 • (MSD) R3652024-5 05/08/21 20:41

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 %
1,1,2,2-Tetrachloroethane	0.0248	U	0.0241	0.0177	97.2	70.8	1	70.0-130		J3	30.6	30
Tetrachloroethene	0.0248	U	0.0237	0.0191	95.6	76.4	1	70.0-130			21.5	30
1,1,2-Trichlorotrifluoroethane	0.0248	U	0.0305	0.0268	123	107	1	70.0-130			12.9	30
1,2,3-Trichlorobenzene	0.0248	U	0.00938	0.00499	37.8	20.0	1	70.0-130	J6	J3 J6	61.1	30
1,2,4-Trichlorobenzene	0.0248	U	0.0104	0.00528	41.9	21.1	1	70.0-130	J6	J3 J6	65.3	30
1,1,1-Trichloroethane	0.0248	U	0.0290	0.0251	117	100	1	70.0-130			14.4	30
1,1,2-Trichloroethane	0.0248	U	0.0244	0.0192	98.4	76.8	1	70.0-130			23.9	30
1,2-Dibromoethane	0.0248	U	0.0248	0.0192	100	76.8	1	70.0-130			25.5	30
Trichloroethene	0.0248	U	0.0258	0.0216	104	86.4	1	70.0-130			17.7	30
Trichlorofluoromethane	0.0248	U	0.0287	0.0241	116	96.4	1	40.0-160			17.4	30
Vinyl chloride	0.0248	U	0.0253	0.0219	102	87.6	1	70.0-130			14.4	30
1,2-Dichloroethane	0.0248	U	0.0252	0.0206	102	82.4	1	70.0-130			20.1	30
Methyl Cyclohexane	0.0248	0.00109	0.0266	0.0211	103	80.0	1	40.0-160			23.1	30
Cyclohexane	0.0248	0.00103	0.0276	0.0232	107	88.7	1	70.0-130			17.3	30
Methyl Acetate	0.124	0.0274	0.0307	0.0250	2.66	0.000	1	70.0-130	J6	J6	20.5	30
Ethylbenzene	0.0248	0.00510	0.0312	0.0248	105	78.8	1	70.0-130			22.9	30
Methyl tert-butyl ether	0.0248	U	0.0284	0.0231	115	92.4	1	70.0-130			20.6	30
Toluene	0.0248	0.0187	0.0374	0.0315	75.4	51.2	1	70.0-130		J6	17.1	30
Xylenes, Total	0.0743	0.0330	0.130	0.103	131	93.3	1	70.0-130	J5		23.2	30
(S) Toluene-d8					*105*	*105*		*75.0-131*				
(S) 4-Bromofluorobenzene					*106*	*108*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*130*	*128*		*70.0-130*				

Method Blank (MB)

(MB) R3652394-3 05/08/21 11:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Benzene	U		0.000375	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromochloromethane	U		0.000335	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
Carbon disulfide	U		0.000700	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
Cyclohexane	U		0.000268	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
Ethylbenzene	U		0.000300	0.00100
2-Hexanone	U		0.00179	0.0100
Isopropylbenzene	U		0.000425	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methyl Acetate	U		0.00300	0.0200
Methyl Cyclohexane	U		0.000775	0.00100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Styrene	U		0.000223	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
Tetrachloroethene	U		0.000325	0.00100

Method Blank (MB)

(MB) R3652394-3 05/08/21 11:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Toluene	U		0.00123	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
Vinyl chloride	U		0.000226	0.00100
Xylenes, Total	U		0.000500	0.00300
(S) Toluene-d8	*112*			*75.0-131*
(S) 4-Bromofluorobenzene	*106*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

(MB) R3652394-3 05/08/21 11:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	CAS #

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652394-1 05/08/21 10:16 • (LCSD) R3652394-2 05/08/21 11:10

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	0.125	0.122	0.120	97.6	96.0	40.0-160			1.65	30
Benzene	0.0250	0.0240	0.0237	96.0	94.8	70.0-130			1.26	30
Bromodichloromethane	0.0250	0.0247	0.0241	98.8	96.4	70.0-130			2.46	30
Bromochloromethane	0.0250	0.0242	0.0243	96.8	97.2	70.0-130			0.412	30
Bromoform	0.0250	0.0246	0.0237	98.4	94.8	70.0-130			3.73	30
Bromomethane	0.0250	0.0247	0.0241	98.8	96.4	40.0-160			2.46	30
Carbon disulfide	0.0250	0.0216	0.0224	86.4	89.6	40.0-160			3.64	30
Carbon tetrachloride	0.0250	0.0267	0.0256	107	102	70.0-130			4.21	30
Chlorobenzene	0.0250	0.0251	0.0247	100	98.8	70.0-130			1.61	30
Chlorodibromomethane	0.0250	0.0249	0.0245	99.6	98.0	70.0-130			1.62	30
Chloroethane	0.0250	0.0250	0.0244	100	97.6	40.0-160			2.43	30

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652394-1 05/08/21 10:16 • (LCSD) R3652394-2 05/08/21 11:10

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 %
Chloroform	0.0250	0.0243	0.0238	97.2	95.2	70.0-130			2.08	30
Chloromethane	0.0250	0.0251	0.0242	100	96.8	40.0-160			3.65	30
Cyclohexane	0.0250	0.0239	0.0239	95.6	95.6	70.0-130			0.000	30
1,2-Dibromo-3-Chloropropane	0.0250	0.0224	0.0229	89.6	91.6	40.0-160			2.21	30
1,2-Dibromoethane	0.0250	0.0234	0.0233	93.6	93.2	70.0-130			0.428	30
1,2-Dichlorobenzene	0.0250	0.0241	0.0238	96.4	95.2	70.0-130			1.25	30
1,3-Dichlorobenzene	0.0250	0.0251	0.0250	100	100	70.0-130			0.399	30
1,4-Dichlorobenzene	0.0250	0.0248	0.0245	99.2	98.0	70.0-130			1.22	30
Dichlorodifluoromethane	0.0250	0.0257	0.0256	103	102	40.0-160			0.390	30
1,1-Dichloroethane	0.0250	0.0244	0.0241	97.6	96.4	70.0-130			1.24	30
1,2-Dichloroethane	0.0250	0.0245	0.0237	98.0	94.8	70.0-130			3.32	30
1,1-Dichloroethene	0.0250	0.0239	0.0240	95.6	96.0	70.0-130			0.418	30
cis-1,2-Dichloroethene	0.0250	0.0240	0.0239	96.0	95.6	70.0-130			0.418	30
trans-1,2-Dichloroethene	0.0250	0.0241	0.0242	96.4	96.8	70.0-130			0.414	30
1,2-Dichloropropane	0.0250	0.0253	0.0246	101	98.4	70.0-130			2.81	30
cis-1,3-Dichloropropene	0.0250	0.0248	0.0243	99.2	97.2	70.0-130			2.04	30
trans-1,3-Dichloropropene	0.0250	0.0249	0.0245	99.6	98.0	70.0-130			1.62	30
Ethylbenzene	0.0250	0.0241	0.0235	96.4	94.0	70.0-130			2.52	30
2-Hexanone	0.125	0.109	0.105	87.2	84.0	40.0-160			3.74	30
Isopropylbenzene	0.0250	0.0258	0.0251	103	100	70.0-130			2.75	30
2-Butanone (MEK)	0.125	0.124	0.118	99.2	94.4	40.0-160			4.96	30
Methyl Acetate	0.125	0.122	0.118	97.6	94.4	70.0-130			3.33	30
Methyl Cyclohexane	0.0250	0.0247	0.0244	98.8	97.6	40.0-160			1.22	30
Methylene Chloride	0.0250	0.0220	0.0219	88.0	87.6	70.0-130			0.456	30
4-Methyl-2-pentanone (MIBK)	0.125	0.127	0.121	102	96.8	40.0-160			4.84	30
Methyl tert-butyl ether	0.0250	0.0229	0.0230	91.6	92.0	70.0-130			0.436	30
Styrene	0.0250	0.0262	0.0255	105	102	70.0-130			2.71	30
1,1,2,2-Tetrachloroethane	0.0250	0.0208	0.0216	83.2	86.4	70.0-130			3.77	30
Tetrachloroethene	0.0250	0.0253	0.0247	101	98.8	70.0-130			2.40	30
Toluene	0.0250	0.0243	0.0237	97.2	94.8	70.0-130			2.50	30
1,1,2-Trichlorotrifluoroethane	0.0250	0.0248	0.0249	99.2	99.6	70.0-130			0.402	30
1,2,3-Trichlorobenzene	0.0250	0.0253	0.0254	101	102	70.0-130			0.394	30
1,2,4-Trichlorobenzene	0.0250	0.0265	0.0266	106	106	70.0-130			0.377	30
1,1,1-Trichloroethane	0.0250	0.0260	0.0253	104	101	70.0-130			2.73	30
1,1,2-Trichloroethane	0.0250	0.0241	0.0237	96.4	94.8	70.0-130			1.67	30
Trichloroethene	0.0250	0.0267	0.0253	107	101	70.0-130			5.38	30
Trichlorofluoromethane	0.0250	0.0265	0.0256	106	102	40.0-160			3.45	30
Vinyl chloride	0.0250	0.0242	0.0240	96.8	96.0	70.0-130			0.830	30
Xylenes, Total	0.0750	0.0746	0.0728	99.5	97.1	70.0-130			2.44	30
(S) Toluene-d8				*111*	*108*	*75.0-131*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652394-1 05/08/21 10:16 • (LCSD) R3652394-2 05/08/21 11:10

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 %
(S) 4-Bromofluorobenzene				*106*	*105*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*122*	*119*	*70.0-130*				

Method Blank (MB)

(MB) R3653068-3 05/11/21 14:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Benzene	U		0.000375	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromochloromethane	U		0.000335	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
Carbon disulfide	U		0.000700	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
Cyclohexane	U		0.000268	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
Ethylbenzene	U		0.000300	0.00100
2-Hexanone	U		0.00179	0.0100
Isopropylbenzene	U		0.000425	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methyl Acetate	U		0.00300	0.0200
Methyl Cyclohexane	U		0.000775	0.00100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Styrene	U		0.000223	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
Tetrachloroethene	U		0.000325	0.00100

Method Blank (MB)

(MB) R3653068-3 05/11/21 14:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Toluene	U		0.00123	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
Vinyl chloride	U		0.000226	0.00100
Xylenes, Total	U		0.000500	0.00300
(S) Toluene-d8	*116*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

(MB) R3653068-3 05/11/21 14:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	CAS #

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3653068-1 05/11/21 12:39 • (LCSD) R3653068-2 05/11/21 13:30

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	0.125	0.110	0.124	88.0	99.2	40.0-160			12.0	30
Benzene	0.0250	0.0221	0.0240	88.4	96.0	70.0-130			8.24	30
Bromodichloromethane	0.0250	0.0219	0.0232	87.6	92.8	70.0-130			5.76	30
Bromochloromethane	0.0250	0.0229	0.0249	91.6	99.6	70.0-130			8.37	30
Bromoform	0.0250	0.0231	0.0252	92.4	101	70.0-130			8.70	30
Bromomethane	0.0250	0.0232	0.0257	92.8	103	40.0-160			10.2	30
Carbon disulfide	0.0250	0.0212	0.0231	84.8	92.4	40.0-160			8.58	30
Carbon tetrachloride	0.0250	0.0238	0.0254	95.2	102	70.0-130			6.50	30
Chlorobenzene	0.0250	0.0250	0.0261	100	104	70.0-130			4.31	30
Chlorodibromomethane	0.0250	0.0237	0.0254	94.8	102	70.0-130			6.92	30
Chloroethane	0.0250	0.0237	0.0267	94.8	107	40.0-160			11.9	30

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3653068-1 05/11/21 12:39 • (LCSD) R3653068-2 05/11/21 13:30

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 %
Chloroform	0.0250	0.0222	0.0239	88.8	95.6	70.0-130			7.38	30
Chloromethane	0.0250	0.0224	0.0227	89.6	90.8	40.0-160			1.33	30
Cyclohexane	0.0250	0.0227	0.0243	90.8	97.2	70.0-130			6.81	30
1,2-Dibromo-3-Chloropropane	0.0250	0.0218	0.0253	87.2	101	40.0-160			14.9	30
1,2-Dibromoethane	0.0250	0.0230	0.0247	92.0	98.8	70.0-130			7.13	30
1,2-Dichlorobenzene	0.0250	0.0242	0.0254	96.8	102	70.0-130			4.84	30
1,3-Dichlorobenzene	0.0250	0.0255	0.0265	102	106	70.0-130			3.85	30
1,4-Dichlorobenzene	0.0250	0.0254	0.0261	102	104	70.0-130			2.72	30
Dichlorodifluoromethane	0.0250	0.0227	0.0244	90.8	97.6	40.0-160			7.22	30
1,1-Dichloroethane	0.0250	0.0222	0.0239	88.8	95.6	70.0-130			7.38	30
1,2-Dichloroethane	0.0250	0.0211	0.0226	84.4	90.4	70.0-130			6.86	30
1,1-Dichloroethene	0.0250	0.0230	0.0252	92.0	101	70.0-130			9.13	30
cis-1,2-Dichloroethene	0.0250	0.0226	0.0243	90.4	97.2	70.0-130			7.25	30
trans-1,2-Dichloroethene	0.0250	0.0232	0.0250	92.8	100	70.0-130			7.47	30
1,2-Dichloropropane	0.0250	0.0225	0.0238	90.0	95.2	70.0-130			5.62	30
cis-1,3-Dichloropropene	0.0250	0.0223	0.0236	89.2	94.4	70.0-130			5.66	30
trans-1,3-Dichloropropene	0.0250	0.0241	0.0255	96.4	102	70.0-130			5.65	30
Ethylbenzene	0.0250	0.0235	0.0247	94.0	98.8	70.0-130			4.98	30
2-Hexanone	0.125	0.101	0.123	80.8	98.4	40.0-160			19.6	30
Isopropylbenzene	0.0250	0.0255	0.0270	102	108	70.0-130			5.71	30
2-Butanone (MEK)	0.125	0.102	0.119	81.6	95.2	40.0-160			15.4	30
Methyl Acetate	0.125	0.0986	0.117	78.9	93.6	70.0-130			17.1	30
Methyl Cyclohexane	0.0250	0.0230	0.0248	92.0	99.2	40.0-160			7.53	30
Methylene Chloride	0.0250	0.0213	0.0226	85.2	90.4	70.0-130			5.92	30
4-Methyl-2-pentanone (MIBK)	0.125	0.110	0.129	88.0	103	40.0-160			15.9	30
Methyl tert-butyl ether	0.0250	0.0223	0.0242	89.2	96.8	70.0-130			8.17	30
Styrene	0.0250	0.0255	0.0267	102	107	70.0-130			4.60	30
1,1,2,2-Tetrachloroethane	0.0250	0.0216	0.0238	86.4	95.2	70.0-130			9.69	30
Tetrachloroethene	0.0250	0.0252	0.0270	101	108	70.0-130			6.90	30
Toluene	0.0250	0.0238	0.0254	95.2	102	70.0-130			6.50	30
1,1,2-Trichlorotrifluoroethane	0.0250	0.0238	0.0258	95.2	103	70.0-130			8.06	30
1,2,3-Trichlorobenzene	0.0250	0.0252	0.0277	101	111	70.0-130			9.45	30
1,2,4-Trichlorobenzene	0.0250	0.0275	0.0288	110	115	70.0-130			4.62	30
1,1,1-Trichloroethane	0.0250	0.0230	0.0248	92.0	99.2	70.0-130			7.53	30
1,1,2-Trichloroethane	0.0250	0.0230	0.0253	92.0	101	70.0-130			9.52	30
Trichloroethene	0.0250	0.0240	0.0257	96.0	103	70.0-130			6.84	30
Trichlorofluoromethane	0.0250	0.0236	0.0258	94.4	103	40.0-160			8.91	30
Vinyl chloride	0.0250	0.0219	0.0240	87.6	96.0	70.0-130			9.15	30
Xylenes, Total	0.0750	0.0731	0.0769	97.5	103	70.0-130			5.07	30
(S) Toluene-d8				*114*	*114*	*75.0-131*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3653068-1 05/11/21 12:39 • (LCSD) R3653068-2 05/11/21 13:30

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 %
(S) 4-Bromofluorobenzene				*105*	*103*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*112*	*115*	*70.0-130*				

Method Blank (MB)

(MB) R3651205-1 05/06/21 11:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylene Dibromide	U		0.00536	0.0200
1,2-Dibromo-3-Chloropropane	U		0.00748	0.0200

L1346117-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1346117-01 05/06/21 12:30 • (DUP) R3651205-3 05/06/21 12:18

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ethylene Dibromide	U	U	1	0.000		20
1,2-Dibromo-3-Chloropropane	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651205-4 05/06/21 14:30 • (LCSD) R3651205-5 05/06/21 17:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylene Dibromide	0.250	0.265	0.273	106	109	70.0-130			2.97	20
1,2-Dibromo-3-Chloropropane	0.250	0.227	0.230	90.8	92.0	70.0-130			1.31	20

L1346117-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1346117-03 05/06/21 12:06 • (MS) R3651205-2 05/06/21 11:54

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.100	U	0.106	106	1	70.0-130	
1,2-Dibromo-3-Chloropropane	0.100	U	0.0961	96.1	1	70.0-130	

Method Blank (MB)

(MB) R3651858-1 05/06/21 17:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylene Dibromide	U		0.00536	0.0200
1,2-Dibromo-3-Chloropropane	U		0.00748	0.0200

L1346268-31 Original Sample (OS) • Duplicate (DUP)

(OS) L1346268-31 05/06/21 18:20 • (DUP) R3651858-3 05/06/21 18:08

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ethylene Dibromide	U	U	1	0.000		20
1,2-Dibromo-3-Chloropropane	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651858-4 05/06/21 20:20 • (LCSD) R3651858-5 05/06/21 22:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylene Dibromide	0.250	0.277	0.262	111	105	70.0-130			5.57	20
1,2-Dibromo-3-Chloropropane	0.250	0.232	0.223	92.8	89.2	70.0-130			3.96	20

L1346482-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1346482-08 05/06/21 17:56 • (MS) R3651858-2 05/06/21 17:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.100	U	0.0986	98.6	1	70.0-130	
1,2-Dibromo-3-Chloropropane	0.100	U	0.110	110	1	70.0-130	

Method Blank (MB)

(MB) R3651226-1 05/06/21 01:21

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	*59.0*			*30.0-150*
(S) Tetrachloro-m-xylene	*64.6*			*30.0-150*

Laboratory Control Sample (LCS)

(LCS) R3651226-2 05/06/21 01:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0531	79.7	40.0-140	
Alpha BHC	0.0666	0.0529	79.4	40.0-140	
Beta BHC	0.0666	0.0560	84.1	40.0-140	
Delta BHC	0.0666	0.0521	78.2	40.0-140	
Gamma BHC	0.0666	0.0550	82.6	40.0-140	
4,4-DDD	0.0666	0.0510	76.6	40.0-140	
4,4-DDE	0.0666	0.0501	75.2	40.0-140	
4,4-DDT	0.0666	0.0535	80.3	40.0-140	
Dieldrin	0.0666	0.0530	79.6	40.0-140	
Endosulfan I	0.0666	0.0564	84.7	40.0-140	

Laboratory Control Sample (LCS)

(LCS) R3651226-2 05/06/21 01:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	0.0666	0.0547	82.1	40.0-140	
Endosulfan sulfate	0.0666	0.0524	78.7	40.0-140	
Endrin	0.0666	0.0538	80.8	40.0-140	
Endrin aldehyde	0.0666	0.0617	92.6	40.0-140	
Endrin ketone	0.0666	0.0575	86.3	40.0-140	
Heptachlor	0.0666	0.0524	78.7	40.0-140	
Heptachlor epoxide	0.0666	0.0515	77.3	40.0-140	
Hexachlorobenzene	0.0666	0.0453	68.0	40.0-140	
Methoxychlor	0.0666	0.0573	86.0	40.0-140	
(S) Decachlorobiphenyl			*59.9*	*30.0-150*	
(S) Tetrachloro-m-xylene			*68.3*	*30.0-150*	

L1345179-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1345179-14 05/06/21 12:16 • (MS) R3651226-3 05/06/21 12:31 • (MSD) R3651226-4 05/06/21 12:45

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 %
Aldrin	0.0768	U	0.0701	0.0712	91.3	92.6	1	30.0-150			1.47	30
Alpha BHC	0.0768	U	0.0683	0.0662	88.9	86.2	1	30.0-150			3.09	30
Beta BHC	0.0768	U	0.0679	0.0630	88.4	82.0	1	30.0-150			7.58	30
Delta BHC	0.0768	U	0.0646	0.0595	84.1	77.5	1	30.0-150			8.18	30
Gamma BHC	0.0768	U	0.0697	0.0656	90.7	85.4	1	30.0-150			5.97	30
4,4-DDD	0.0768	U	0.0663	0.0610	86.3	79.4	1	30.0-150			8.33	30
4,4-DDE	0.0768	U	0.0653	0.0631	85.0	82.1	1	30.0-150			3.41	30
4,4-DDT	0.0768	U	0.0714	0.0663	92.9	86.3	1	30.0-150			7.37	30
Dieldrin	0.0768	U	0.0667	0.0602	86.8	78.4	1	30.0-150			10.2	30
Endosulfan I	0.0768	U	0.0708	0.0644	92.2	83.8	1	30.0-150			9.56	30
Endosulfan II	0.0768	U	0.0671	0.0571	87.4	74.3	1	30.0-150			16.2	30
Endosulfan sulfate	0.0768	U	0.0645	0.0538	83.9	70.0	1	30.0-150			18.1	30
Endrin	0.0768	U	0.0678	0.0606	88.3	78.8	1	30.0-150			11.3	30
Endrin aldehyde	0.0768	U	0.0771	0.0666	100	86.6	1	30.0-150			14.6	30
Endrin ketone	0.0768	U	0.0704	0.0585	91.6	76.1	1	30.0-150			18.4	30
Heptachlor	0.0768	U	0.0703	0.0714	91.4	92.9	1	30.0-150			1.63	30
Heptachlor epoxide	0.0768	U	0.0653	0.0611	85.0	79.6	1	30.0-150			6.57	30
Hexachlorobenzene	0.0768	U	0.0621	0.0633	80.8	82.4	1	30.0-150			2.02	30
Methoxychlor	0.0768	U	0.0752	0.0621	97.9	80.8	1	30.0-150			19.2	30
(S) Decachlorobiphenyl					*76.4*	*79.6*		*30.0-150*				
(S) Tetrachloro-m-xylene					*84.4*	*88.3*		*30.0-150*				

Method Blank (MB)

(MB) R3651223-1 05/05/21 13:21

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	*67.9*			*30.0-150*
(S) Tetrachloro-m-xylene	*64.4*			*30.0-150*

Laboratory Control Sample (LCS)

(LCS) R3651223-2 05/05/21 13:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0441	66.2	40.0-140	
Alpha BHC	0.0666	0.0395	59.3	40.0-140	
Beta BHC	0.0666	0.0432	64.9	40.0-140	
Delta BHC	0.0666	0.0390	58.6	40.0-140	
Gamma BHC	0.0666	0.0409	61.4	40.0-140	
4,4-DDD	0.0666	0.0461	69.2	40.0-140	
4,4-DDE	0.0666	0.0498	74.8	40.0-140	
4,4-DDT	0.0666	0.0437	65.6	40.0-140	
Dieldrin	0.0666	0.0507	76.1	40.0-140	
Endosulfan I	0.0666	0.0510	76.6	40.0-140	

Laboratory Control Sample (LCS)

(LCS) R3651223-2 05/05/21 13:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	0.0666	0.0541	81.2	40.0-140	
Endosulfan sulfate	0.0666	0.0470	70.6	40.0-140	
Endrin	0.0666	0.0478	71.8	40.0-140	
Endrin aldehyde	0.0666	0.0514	77.2	40.0-140	
Endrin ketone	0.0666	0.0473	71.0	40.0-140	
Heptachlor	0.0666	0.0389	58.4	40.0-140	
Heptachlor epoxide	0.0666	0.0509	76.4	40.0-140	
Hexachlorobenzene	0.0666	0.0487	73.1	40.0-140	
Methoxychlor	0.0666	0.0458	68.8	40.0-140	
(S) Decachlorobiphenyl			*72.8*	*30.0-150*	
(S) Tetrachloro-m-xylene			*68.9*	*30.0-150*	

L1342889-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1342889-02 05/06/21 06:15 • (MS) R3651238-1 05/06/21 06:32 • (MSD) R3651238-2 05/06/21 06:48

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	0.0679	U	0.0372	0.0394	54.8	58.0	1	30.0-150			5.59	30
Alpha BHC	0.0679	U	0.0358	0.0380	52.7	56.0	1	30.0-150			6.08	30
Beta BHC	0.0679	U	0.0337	0.0366	49.5	53.9	1	30.0-150			8.42	30
Delta BHC	0.0679	U	0.0354	0.0375	52.1	55.3	1	30.0-150			5.87	30
Gamma BHC	0.0679	U	0.0366	0.0389	53.9	57.2	1	30.0-150			5.95	30
4,4-DDD	0.0679	U	0.0350	0.0375	51.5	55.3	1	30.0-150			7.03	30
4,4-DDE	0.0679	U	0.0352	0.0345	51.8	50.8	1	30.0-150			2.05	30
4,4-DDT	0.0679	U	0.0406	0.0425	59.8	62.6	1	30.0-150			4.66	30
Dieldrin	0.0679	U	0.0356	0.0378	52.4	55.7	1	30.0-150			6.11	30
Endosulfan I	0.0679	U	0.0358	0.0379	52.7	55.9	1	30.0-150			5.81	30
Endosulfan II	0.0679	U	0.0382	0.0405	56.3	59.6	1	30.0-150			5.70	30
Endosulfan sulfate	0.0679	U	0.0336	0.0357	49.4	52.6	1	30.0-150			6.19	30
Endrin	0.0679	U	0.0358	0.0396	52.7	58.3	1	30.0-150			10.0	30
Endrin aldehyde	0.0679	U	0.0376	0.0389	55.4	57.2	1	30.0-150			3.20	30
Endrin ketone	0.0679	U	0.0346	0.0367	50.9	54.1	1	30.0-150			6.01	30
Heptachlor	0.0679	U	0.0338	0.0366	49.7	53.9	1	30.0-150			8.12	30
Heptachlor epoxide	0.0679	U	0.0355	0.0378	52.3	55.7	1	30.0-150			6.40	30
Hexachlorobenzene	0.0679	U	0.0360	0.0371	53.0	54.7	1	30.0-150			3.07	30
Methoxychlor	0.0679	U	0.0398	0.0436	58.6	64.1	1	30.0-150		P	9.06	30
(S) Decachlorobiphenyl					*58.6*	*50.0*		*30.0-150*				
(S) Tetrachloro-m-xylene					*59.5*	*49.5*		*30.0-150*				

Method Blank (MB)

(MB) R3651164-1 05/05/21 16:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Aldrin	U		0.00813	0.0400
Alpha BHC	U		0.0166	0.0200
Beta BHC	U		0.0184	0.0400
Delta BHC	U		0.0197	0.0500
Gamma BHC	U		0.0176	0.0300
4,4-DDD	U		0.0170	0.0500
4,4-DDE	U		0.0164	0.0500
4,4-DDT	U		0.0177	0.0500
Dieldrin	U		0.00751	0.0500
Endosulfan I	U		0.0179	0.0500
Endosulfan II	U		0.0176	0.0500
Endosulfan sulfate	U		0.0196	0.0500
Endrin	U		0.0189	0.0500
Endrin aldehyde	U		0.0142	0.0500
Endrin ketone	U		0.0170	0.0500
Heptachlor	U		0.0108	0.0500
Heptachlor epoxide	U		0.0175	0.0500
Hexachlorobenzene	U		0.0134	0.0500
Methoxychlor	U		0.0193	0.0500
Chlordane	U		0.0977	0.500
Toxaphene	U		0.168	0.500
(S) Decachlorobiphenyl	*60.8*			*30.0-150*
(S) Tetrachloro-m-xylene	*103*			*30.0-150*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651164-2 05/05/21 16:43 • (LCSD) R3651164-3 05/05/21 16:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	1.00	1.03	0.978	103	97.8	40.0-140			5.18	20
Alpha BHC	1.00	1.06	1.00	106	100	40.0-140			5.83	20
Beta BHC	1.00	1.13	1.06	113	106	40.0-140			6.39	20
Delta BHC	1.00	1.04	0.976	104	97.6	40.0-140			6.35	20
Gamma BHC	1.00	1.10	1.03	110	103	40.0-140			6.57	20
4,4-DDD	1.00	1.03	0.976	103	97.6	40.0-140			5.38	20
4,4-DDE	1.00	0.962	0.919	96.2	91.9	40.0-140			4.57	20
4,4-DDT	1.00	0.939	0.919	93.9	91.9	40.0-140			2.15	20
Dieldrin	1.00	1.08	1.01	108	101	40.0-140			6.70	20
Endosulfan I	1.00	1.03	0.961	103	96.1	40.0-140			6.93	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651164-2 05/05/21 16:43 • (LCSD) R3651164-3 05/05/21 16:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	1.00	1.12	1.04	112	104	40.0-140			7.41	20
Endosulfan sulfate	1.00	1.10	1.03	110	103	40.0-140			6.57	20
Endrin	1.00	1.05	1.01	105	101	40.0-140			3.88	20
Endrin aldehyde	1.00	2.03	1.90	203	190	40.0-140	J4	J4	6.62	20
Endrin ketone	1.00	1.07	1.00	107	100	40.0-140			6.76	20
Heptachlor	1.00	1.03	0.981	103	98.1	40.0-140			4.87	20
Heptachlor epoxide	1.00	1.05	0.980	105	98.0	40.0-140			6.90	20
Hexachlorobenzene	1.00	0.889	0.860	88.9	86.0	40.0-140			3.32	20
Methoxychlor	1.00	1.08	1.04	108	104	40.0-140			3.77	20
(S) Decachlorobiphenyl				*56.5*	*30.2*	*30.0-150*				
(S) Tetrachloro-m-xylene				*88.0*	*85.0*	*30.0-150*				

Method Blank (MB)

(MB) R3650681-1 05/05/21 11:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
Total PCBs	U		0.00738	0.0170
(S) Decachlorobiphenyl	*65.5*			*30.0-150*
(S) Tetrachloro-m-xylene	*55.6*			*30.0-150*

Laboratory Control Sample (LCS)

(LCS) R3650681-2 05/05/21 12:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1260	0.167	0.130	77.8	40.0-140	
PCB 1016	0.167	0.130	77.8	40.0-140	
(S) Decachlorobiphenyl			*86.9*	*30.0-150*	
(S) Tetrachloro-m-xylene			*78.4*	*30.0-150*	

L1345179-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1345179-14 05/05/21 15:54 • (MS) R3650681-3 05/05/21 16:04 • (MSD) R3650681-4 05/05/21 16:14

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 %
PCB 1260	0.193	U	0.145	0.145	75.4	75.4	1	30.0-150			0.000	30
PCB 1016	0.193	U	0.167	0.152	86.8	79.0	1	30.0-150			9.39	30
(S) Decachlorobiphenyl					*81.8*	*73.0*		*30.0-150*				
(S) Tetrachloro-m-xylene					*86.8*	*78.2*		*30.0-150*				

Method Blank (MB)

(MB) R3650682-1 05/05/21 11:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
Total PCBs	U		0.00738	0.0170
(S) Decachlorobiphenyl	*78.1*			*30.0-150*
(S) Tetrachloro-m-xylene	*74.0*			*30.0-150*

Laboratory Control Sample (LCS)

(LCS) R3650682-2 05/05/21 11:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1260	0.167	0.133	79.6	40.0-140	
PCB 1016	0.167	0.131	78.4	40.0-140	
(S) Decachlorobiphenyl			*89.6*	*30.0-150*	
(S) Tetrachloro-m-xylene			*77.6*	*30.0-150*	

L1342889-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1342889-02 05/05/21 12:54 • (MS) R3650682-3 05/05/21 13:04 • (MSD) R3650682-4 05/05/21 13:14

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 %
PCB 1260	0.170	0.0254	0.129	0.139	60.5	66.5	1	30.0-150			7.63	30
PCB 1016	0.170	U	0.117	0.121	68.9	71.3	1	30.0-150	P	P	3.42	30
(S) Decachlorobiphenyl					*63.5*	*69.5*		*30.0-150*				
(S) Tetrachloro-m-xylene					*55.4*	*61.0*		*30.0-150*				

Method Blank (MB)

(MB) R3651015-1 05/05/21 14:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
PCB 1260	U		0.120	0.500
PCB 1016	U		0.100	0.500
PCB 1221	U		0.0730	0.500
PCB 1232	U		0.0420	0.500
PCB 1242	U		0.0470	0.500
PCB 1248	U		0.0860	0.500
PCB 1254	U		0.0470	0.500
Total PCBs	U		0.0420	0.500
(S) Decachlorobiphenyl	*43.8*			*30.0-150*
(S) Tetrachloro-m-xylene	*80.1*			*30.0-150*

Laboratory Control Sample (LCS)

(LCS) R3651015-2 05/05/21 14:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1260	2.50	1.86	74.4	40.0-140	
PCB 1016	2.50	2.46	98.4	40.0-140	
(S) Decachlorobiphenyl			*38.2*	*30.0-150*	
(S) Tetrachloro-m-xylene			*79.5*	*30.0-150*	

L1345243-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1345243-03 05/05/21 14:54 • (MS) R3651015-3 05/05/21 15:06 • (MSD) R3651015-4 05/05/21 15:18

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	2.50	U	1.91	2.02	76.4	80.8	1	30.0-150			5.60	20
PCB 1016	2.50	U	2.25	2.79	90.0	112	1	30.0-150		J3	21.4	20
(S) Decachlorobiphenyl					*61.2*	*65.3*		*30.0-150*				
(S) Tetrachloro-m-xylene					*70.9*	*75.4*		*30.0-150*				

Method Blank (MB)

(MB) R3650489-1 05/04/21 20:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00593	0.0333
Acenaphthene	U		0.00539	0.0333
Acenaphthylene	U		0.00469	0.0333
Benzo(a)anthracene	U		0.00587	0.0333
Benzo(a)pyrene	U		0.00619	0.0333
Benzo(b)fluoranthene	U		0.00621	0.0333
Benzo(g,h,i)perylene	U		0.00609	0.0333
Benzo(k)fluoranthene	U		0.00592	0.0333
Chrysene	U		0.00662	0.0333
Dibenz(a,h)anthracene	U		0.00923	0.0333
Fluoranthene	U		0.00601	0.0333
Fluorene	U		0.00542	0.0333
Indeno(1,2,3-cd)pyrene	U		0.00941	0.0333
Naphthalene	U		0.00836	0.0333
Phenanthrene	U		0.00661	0.0333
Pyrene	U		0.00648	0.0333
(S) Nitrobenzene-d5	*74.9*			*31.0-146*
(S) 2-Fluorobiphenyl	*80.7*			*31.0-130*
(S) p-Terphenyl-d14	*110*			*20.0-127*

Laboratory Control Sample (LCS)

(LCS) R3650489-4 05/04/21 21:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.400	0.349	87.3	70.0-130	
Acenaphthylene	0.400	0.357	89.3	70.0-130	
Anthracene	0.400	0.352	88.0	70.0-130	
Benzo(a)anthracene	0.400	0.350	87.5	70.0-130	
Benzo(b)fluoranthene	0.400	0.353	88.2	70.0-130	
Benzo(k)fluoranthene	0.400	0.364	91.0	70.0-130	
Benzo(g,h,i)perylene	0.400	0.356	89.0	70.0-130	
Benzo(a)pyrene	0.400	0.330	82.5	70.0-130	
Chrysene	0.400	0.358	89.5	70.0-130	
Dibenz(a,h)anthracene	0.400	0.363	90.8	70.0-130	
Fluoranthene	0.400	0.353	88.2	70.0-130	
Fluorene	0.400	0.360	90.0	70.0-130	
Indeno(1,2,3-cd)pyrene	0.400	0.333	83.3	70.0-130	
Naphthalene	0.400	0.360	90.0	70.0-130	

Laboratory Control Sample (LCS)

(LCS) R3650489-4 05/04/21 21:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phenanthrene	0.400	0.368	92.0	70.0-130	
Pyrene	0.400	0.381	95.3	70.0-130	
(S) Nitrobenzene-d5			*85.9*	*31.0-146*	
(S) 2-Fluorobiphenyl			*88.2*	*31.0-130*	
(S) p-Terphenyl-d14			*112*	*20.0-127*	

L1346268-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346268-19 05/04/21 22:20 • (MS) R3650489-5 05/04/21 22:41 • (MSD) R3650489-6 05/04/21 23:01

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	0.441	U	0.316	0.281	71.8	63.8	1	70.0-130		J6	11.8	30
Acenaphthylene	0.441	U	0.327	0.281	74.2	63.8	1	70.0-130		J6	15.2	30
Anthracene	0.441	U	0.308	0.259	70.0	58.7	1	70.0-130		J6	17.5	30
Benzo(a)anthracene	0.441	U	0.310	0.251	70.3	57.0	1	70.0-130		J6	20.8	30
Benzo(b)fluoranthene	0.441	U	0.303	0.290	68.8	65.8	1	70.0-130	J6	J6	4.46	30
Benzo(k)fluoranthene	0.441	U	0.283	0.274	64.3	62.3	1	70.0-130	J6	J6	3.16	30
Benzo(g,h,i)perylene	0.441	U	0.285	0.259	64.8	58.7	1	70.0-130	J6	J6	9.72	30
Benzo(a)pyrene	0.441	U	0.272	0.239	61.7	54.2	1	70.0-130	J6	J6	12.9	30
Chrysene	0.441	U	0.337	0.282	76.5	64.0	1	70.0-130		J6	17.8	30
Dibenz(a,h)anthracene	0.441	U	0.295	0.267	67.0	60.5	1	70.0-130	J6	J6	10.2	30
Fluoranthene	0.441	0.0127	0.318	0.264	69.4	57.1	1	70.0-130	J6	J6	18.5	30
Fluorene	0.441	U	0.321	0.292	72.8	66.3	1	70.0-130		J6	9.35	30
Naphthalene	0.441	U	0.312	0.303	70.8	68.8	1	70.0-130		J6	2.87	30
Phenanthrene	0.441	0.00995	0.343	0.272	75.5	59.5	1	70.0-130		J6	22.9	30
Pyrene	0.441	0.0155	0.358	0.296	77.7	63.7	1	70.0-130		J6	18.9	30
Indeno(1,2,3-cd)pyrene	0.441	U	0.282	0.251	64.0	57.0	1	70.0-130	J6	J6	11.6	30
(S) Nitrobenzene-d5					*66.7*	*69.9*		*31.0-146*				
(S) 2-Fluorobiphenyl					*75.3*	*70.3*		*31.0-130*				
(S) p-Terphenyl-d14					*94.0*	*85.9*		*20.0-127*				

Method Blank (MB)

(MB) R3650736-2 05/05/21 12:22

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
Acetophenone	U		0.0104	0.333
Anthracene	U		0.00593	0.0333
Atrazine	U		0.0115	0.333
Benzaldehyde	U		0.0177	0.333
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
Biphenyl	U		0.0106	0.333
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
Caprolactam	U		0.0165	0.333
Carbazole	U		0.0103	0.333
4-Chloroaniline	U		0.0120	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
Dibenzofuran	U		0.0109	0.333
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
2-Methylnaphthalene	U		0.00432	0.0333
Naphthalene	U		0.00836	0.0333
2-Nitroaniline	U		0.0107	0.333
3-Nitroaniline	U		0.0106	0.333
4-Nitroaniline	U		0.00971	0.333

Method Blank (MB)

(MB) R3650736-2 05/05/21 12:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Nitrobenzene	U		0.0116	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
Pyrene	U		0.00648	0.0333
4-Chloro-3-methylphenol	U		0.0108	0.333
2-Chlorophenol	U		0.0110	0.333
2-Methylphenol	U		0.0100	0.333
3&4-Methyl Phenol	U		0.0104	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
1,2,4,5-Tetrachlorobenzene	U		0.0159	0.333
2,4,5-Trichlorophenol	U		0.0113	0.333
2,4,6-Trichlorophenol	U		0.0107	0.333
(S) Nitrobenzene-d5	*72.7*			*30.0-130*
(S) 2-Fluorobiphenyl	*72.1*			*30.0-130*
(S) p-Terphenyl-d14	*73.3*			*30.0-130*
(S) Phenol-d5	*76.1*			*30.0-130*
(S) 2-Fluorophenol	*79.1*			*30.0-130*
(S) 2,4,6-Tribromophenol	*89.6*			*30.0-130*

Laboratory Control Sample (LCS)

(LCS) R3650736-1 05/05/21 11:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.386	58.0	70.0-130	J4
Acenaphthylene	0.666	0.411	61.7	70.0-130	J4
Acetophenone	0.666	0.437	65.6	70.0-130	J4
Anthracene	0.666	0.407	61.1	70.0-130	J4
Atrazine	0.666	0.474	71.2	70.0-130	
Benzaldehyde	0.666	0.395	59.3	20.0-160	
Benzo(a)anthracene	0.666	0.457	68.6	70.0-130	J4
Benzo(b)fluoranthene	0.666	0.426	64.0	70.0-130	J4
Benzo(k)fluoranthene	0.666	0.424	63.7	70.0-130	J4
Benzo(g,h,i)perylene	0.666	0.414	62.2	70.0-130	J4
Benzo(a)pyrene	0.666	0.434	65.2	70.0-130	J4
Biphenyl	0.666	0.375	56.3	70.0-130	J4
Bis(2-chlorethoxy)methane	0.666	0.329	49.4	70.0-130	J4
Bis(2-chloroethyl)ether	0.666	0.390	58.6	70.0-130	J4
2,2-Oxybis(1-Chloropropane)	0.666	0.372	55.9	70.0-130	J4
4-Bromophenyl-phenylether	0.666	0.479	71.9	70.0-130	
Caprolactam	0.666	0.608	91.3	20.0-160	
Carbazole	0.666	0.430	64.6	70.0-130	J4
4-Chloroaniline	0.666	0.320	48.0	70.0-130	J4
2-Chloronaphthalene	0.666	0.383	57.5	70.0-130	J4
4-Chlorophenyl-phenylether	0.666	0.425	63.8	70.0-130	J4
Chrysene	0.666	0.411	61.7	70.0-130	J4
Dibenz(a,h)anthracene	0.666	0.426	64.0	70.0-130	J4
Dibenzofuran	0.666	0.396	59.5	70.0-130	J4
3,3-Dichlorobenzidine	1.33	0.785	59.0	70.0-130	J4
2,4-Dinitrotoluene	0.666	0.460	69.1	70.0-130	J4
2,6-Dinitrotoluene	0.666	0.447	67.1	70.0-130	J4
Fluoranthene	0.666	0.437	65.6	70.0-130	J4
Fluorene	0.666	0.416	62.5	70.0-130	J4
Hexachlorobenzene	0.666	0.409	61.4	70.0-130	J4
Hexachloro-1,3-butadiene	0.666	0.320	48.0	70.0-130	J4
Hexachlorocyclopentadiene	0.666	0.311	46.7	20.0-160	
Hexachloroethane	0.666	0.366	55.0	20.0-160	
Indeno(1,2,3-cd)pyrene	0.666	0.430	64.6	70.0-130	J4
Isophorone	0.666	0.349	52.4	70.0-130	J4
2-Methylnaphthalene	0.666	0.314	47.1	70.0-130	J4
Naphthalene	0.666	0.317	47.6	70.0-130	J4
2-Nitroaniline	0.666	0.471	70.7	70.0-130	
3-Nitroaniline	0.666	0.460	69.1	70.0-130	J4
4-Nitroaniline	0.666	0.528	79.3	70.0-130	

Laboratory Control Sample (LCS)

(LCS) R3650736-1 05/05/21 11:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrobenzene	0.666	0.328	49.2	70.0-130	J4
n-Nitrosodiphenylamine	0.666	0.405	60.8	20.0-160	
n-Nitrosodi-n-propylamine	0.666	0.405	60.8	70.0-130	J4
Phenanthrene	0.666	0.405	60.8	70.0-130	J4
Benzylbutyl phthalate	0.666	0.430	64.6	70.0-130	J4
Bis(2-ethylhexyl)phthalate	0.666	0.437	65.6	70.0-130	J4
Di-n-butyl phthalate	0.666	0.437	65.6	70.0-130	J4
Diethyl phthalate	0.666	0.438	65.8	70.0-130	J4
Dimethyl phthalate	0.666	0.422	63.4	70.0-130	J4
Di-n-octyl phthalate	0.666	0.444	66.7	70.0-130	J4
Pyrene	0.666	0.418	62.8	70.0-130	J4
4-Chloro-3-methylphenol	0.666	0.353	53.0	70.0-130	J4
2-Chlorophenol	0.666	0.398	59.8	70.0-130	J4
2-Methylphenol	0.666	0.432	64.9	70.0-130	J4
3&4-Methyl Phenol	0.666	0.466	70.0	20.0-160	
2,4-Dichlorophenol	0.666	0.342	51.4	70.0-130	J4
2,4-Dimethylphenol	0.666	0.341	51.2	70.0-130	J4
4,6-Dinitro-2-methylphenol	0.666	0.393	59.0	70.0-130	J4
2,4-Dinitrophenol	0.666	0.293	44.0	20.0-160	
2-Nitrophenol	0.666	0.356	53.5	70.0-130	J4
4-Nitrophenol	0.666	0.444	66.7	20.0-160	
Pentachlorophenol	0.666	0.396	59.5	20.0-160	
Phenol	0.666	0.394	59.2	20.0-160	
1,2,4,5-Tetrachlorobenzene	0.666	0.406	61.0	70.0-130	J4
2,4,5-Trichlorophenol	0.666	0.412	61.9	70.0-130	J4
2,4,6-Trichlorophenol	0.666	0.421	63.2	70.0-130	J4
(S) Nitrobenzene-d5			*57.1*	*30.0-130*	
(S) 2-Fluorobiphenyl			*71.5*	*30.0-130*	
(S) p-Terphenyl-d14			*70.0*	*30.0-130*	
(S) Phenol-d5			*76.6*	*30.0-130*	
(S) 2-Fluorophenol			*77.8*	*30.0-130*	
(S) 2,4,6-Tribromophenol			*92.8*	*30.0-130*	

L1347081-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1347081-01 05/05/21 16:07 • (MS) R3650736-4 05/05/21 16:27 • (MSD) R3650736-5 05/05/21 16:47

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 %
Atrazine	0.721	U	0.500	0.438	69.4	60.8	1	70.0-130	J6	J6	13.1	30
Benzaldehyde	0.721	U	0.426	0.401	59.1	55.6	1	20.0-160			6.11	30
Biphenyl	0.721	U	0.391	0.351	54.3	48.8	1	70.0-130	J6	J6	10.7	30
Caprolactam	0.721	U	0.634	0.550	88.0	76.4	1	20.0-160			14.1	30
Carbazole	0.721	U	0.450	0.398	62.5	55.2	1	70.0-130	J6	J6	12.4	30
Acenaphthene	0.721	U	0.403	0.359	55.9	49.8	1	70.0-130	J6	J6	11.5	30
Acenaphthylene	0.721	U	0.429	0.380	59.6	52.7	1	70.0-130	J6	J6	12.2	30
Acetophenone	0.721	U	0.460	0.408	63.9	56.6	1	70.0-130	J6	J6	12.2	30
Anthracene	0.721	U	0.424	0.371	58.8	51.5	1	70.0-130	J6	J6	13.3	30
Benzo(a)anthracene	0.721	U	0.471	0.425	65.4	59.0	1	70.0-130	J6	J6	10.3	30
Benzo(b)fluoranthene	0.721	U	0.450	0.389	62.5	54.0	1	70.0-130	J6	J6	14.7	30
Benzo(k)fluoranthene	0.721	U	0.436	0.389	60.5	54.0	1	70.0-130	J6	J6	11.5	30
Benzo(g,h,i)perylene	0.721	U	0.428	0.371	59.5	51.5	1	70.0-130	J6	J6	14.3	30
Benzo(a)pyrene	0.721	U	0.450	0.388	62.5	53.8	1	70.0-130	J6	J6	14.9	30
Bis(2-chlorethoxy)methane	0.721	U	0.350	0.310	48.6	43.0	1	70.0-130	J6	J6	12.3	30
Bis(2-chloroethyl)ether	0.721	U	0.395	0.353	54.9	48.9	1	70.0-130	J6	J6	11.5	30
2,2-Oxybis(1-Chloropropane)	0.721	U	0.387	0.345	53.7	47.9	1	70.0-130	J6	J6	11.4	30
4-Bromophenyl-phenylether	0.721	U	0.493	0.443	68.4	61.4	1	70.0-130	J6	J6	10.8	30
4-Chloroaniline	0.721	U	0.347	0.298	48.2	41.3	1	70.0-130	J6	J6	15.3	30
2-Chloronaphthalene	0.721	U	0.399	0.359	55.3	49.8	1	70.0-130	J6	J6	10.4	30
4-Chlorophenyl-phenylether	0.721	U	0.436	0.393	60.5	54.6	1	70.0-130	J6	J6	10.3	30
Chrysene	0.721	U	0.426	0.378	59.1	52.4	1	70.0-130	J6	J6	12.0	30
Dibenz(a,h)anthracene	0.721	U	0.436	0.380	60.5	52.7	1	70.0-130	J6	J6	13.7	30
Dibenzofuran	0.721	U	0.422	0.379	58.5	52.6	1	70.0-130	J6	J6	10.7	30
3,3-Dichlorobenzidine	1.44	U	0.849	0.751	59.0	52.2	1	70.0-130	J6	J6	12.2	30
2,4-Dinitrotoluene	0.721	U	0.460	0.404	63.9	56.1	1	70.0-130	J6	J6	13.0	30
2,6-Dinitrotoluene	0.721	U	0.448	0.397	62.2	55.0	1	70.0-130	J6	J6	12.2	30
Fluoranthene	0.721	U	0.455	0.400	63.1	55.5	1	70.0-130	J6	J6	12.9	30
Fluorene	0.721	U	0.442	0.382	61.3	53.0	1	70.0-130	J6	J6	14.4	30
Hexachlorobenzene	0.721	U	0.428	0.378	59.5	52.4	1	70.0-130	J6	J6	12.5	30
Hexachloro-1,3-butadiene	0.721	U	0.332	0.300	46.0	41.6	1	70.0-130	J6	J6	10.1	30
Hexachlorocyclopentadiene	0.721	U	0.305	0.287	42.4	39.8	1	20.0-160			6.31	30
Hexachloroethane	0.721	U	0.388	0.348	53.8	48.3	1	20.0-160			10.7	30
Indeno(1,2,3-cd)pyrene	0.721	U	0.449	0.392	62.3	54.4	1	70.0-130	J6	J6	13.6	30
Isophorone	0.721	U	0.368	0.334	51.1	46.3	1	70.0-130	J6	J6	9.70	30
2-Methylnaphthalene	0.721	U	0.325	0.295	45.1	41.0	1	70.0-130	J6	J6	9.56	30
Naphthalene	0.721	U	0.331	0.295	45.9	41.0	1	70.0-130	J6	J6	11.2	30
2-Nitroaniline	0.721	U	0.485	0.422	67.4	58.5	1	70.0-130	J6	J6	14.0	30
3-Nitroaniline	0.721	U	0.472	0.420	65.5	58.2	1	70.0-130	J6	J6	11.8	30

L1347081-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1347081-01 05/05/21 16:07 • (MS) R3650736-4 05/05/21 16:27 • (MSD) R3650736-5 05/05/21 16:47

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 %
4-Nitroaniline	0.721	U	0.551	0.485	76.5	67.4	1	70.0-130		J6	12.7	30
Nitrobenzene	0.721	U	0.344	0.309	47.7	42.8	1	70.0-130	J6	J6	10.8	30
n-Nitrosodiphenylamine	0.721	U	0.432	0.383	59.9	53.2	1	20.0-160			11.9	30
n-Nitrosodi-n-propylamine	0.721	U	0.421	0.381	58.4	52.9	1	70.0-130	J6	J6	9.86	30
Phenanthrene	0.721	U	0.423	0.373	58.7	51.8	1	70.0-130	J6	J6	12.4	30
Benzylbutyl phthalate	0.721	U	0.448	0.398	62.2	55.2	1	70.0-130	J6	J6	11.9	30
Bis(2-ethylhexyl)phthalate	0.721	U	0.450	0.401	62.5	55.6	1	70.0-130	J6	J6	11.6	30
Di-n-butyl phthalate	0.721	U	0.459	0.405	63.7	56.2	1	70.0-130	J6	J6	12.5	30
Diethyl phthalate	0.721	U	0.454	0.398	63.0	55.2	1	70.0-130	J6	J6	13.2	30
Dimethyl phthalate	0.721	U	0.446	0.389	61.9	54.0	1	70.0-130	J6	J6	13.7	30
Di-n-octyl phthalate	0.721	U	0.457	0.406	63.4	56.4	1	70.0-130	J6	J6	11.7	30
Pyrene	0.721	U	0.438	0.389	60.8	54.0	1	70.0-130	J6	J6	12.0	30
4-Chloro-3-methylphenol	0.721	U	0.373	0.328	51.8	45.6	1	70.0-130	J6	J6	12.8	30
2-Chlorophenol	0.721	U	0.409	0.378	56.7	52.4	1	70.0-130	J6	J6	7.82	30
2-Methylphenol	0.721	U	0.454	0.399	63.0	55.3	1	70.0-130	J6	J6	12.9	30
3&4-Methyl Phenol	0.721	U	0.493	0.447	68.4	62.0	1	20.0-160			9.81	30
2,4-Dichlorophenol	0.721	U	0.371	0.330	51.5	45.7	1	70.0-130	J6	J6	11.9	30
2,4-Dimethylphenol	0.721	U	0.358	0.321	49.7	44.5	1	70.0-130	J6	J6	11.0	30
4,6-Dinitro-2-methylphenol	0.721	U	0.402	0.379	55.8	52.6	1	70.0-130	J6	J6	5.91	30
2,4-Dinitrophenol	0.721	U	0.337	0.320	46.8	44.4	1	20.0-160			5.35	30
2-Nitrophenol	0.721	U	0.379	0.333	52.6	46.2	1	70.0-130	J6	J6	13.0	30
4-Nitrophenol	0.721	U	0.455	0.410	63.1	56.9	1	20.0-160			10.4	30
Pentachlorophenol	0.721	U	0.404	0.360	56.1	50.0	1	20.0-160			11.5	30
Phenol	0.721	U	0.397	0.359	55.0	49.8	1	20.0-160			9.88	30
1,2,4,5-Tetrachlorobenzene	0.721	U	0.416	0.378	57.8	52.4	1	70.0-130	J6	J6	9.68	30
2,4,5-Trichlorophenol	0.721	U	0.405	0.371	56.2	51.5	1	70.0-130	J6	J6	8.77	30
2,4,6-Trichlorophenol	0.721	U	0.436	0.397	60.5	55.0	1	70.0-130	J6	J6	9.50	30
(S) Nitrobenzene-d5					*57.0*	*50.6*		*30.0-130*				
(S) 2-Fluorobiphenyl					*67.4*	*59.1*		*30.0-130*				
(S) p-Terphenyl-d14					*67.4*	*57.6*		*30.0-130*				
(S) Phenol-d5					*72.9*	*62.7*		*30.0-130*				
(S) 2-Fluorophenol					*72.1*	*64.0*		*30.0-130*				
(S) 2,4,6-Tribromophenol					*90.1*	*78.7*		*30.0-130*				

Method Blank (MB)

(MB) R3652535-2 05/08/21 14:34

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
Acetophenone	U		0.0104	0.333
Anthracene	U		0.00593	0.0333
Atrazine	U		0.0115	0.333
Benzaldehyde	U		0.0177	0.333
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
Biphenyl	U		0.0106	0.333
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
Caprolactam	U		0.0165	0.333
Carbazole	U		0.0103	0.333
4-Chloroaniline	U		0.0120	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
Dibenzofuran	U		0.0109	0.333
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
2-Methylnaphthalene	U		0.00432	0.0333
Naphthalene	U		0.00836	0.0333
2-Nitroaniline	U		0.0107	0.333
3-Nitroaniline	U		0.0106	0.333
4-Nitroaniline	U		0.00971	0.333

Method Blank (MB)

(MB) R3652535-2 05/08/21 14:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Nitrobenzene	U		0.0116	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
Pyrene	U		0.00648	0.0333
1,2,4,5-Tetrachlorobenzene	U		0.0159	0.333
4-Chloro-3-methylphenol	U		0.0108	0.333
2-Chlorophenol	U		0.0110	0.333
2-Methylphenol	U		0.0100	0.333
3&4-Methyl Phenol	U		0.0104	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
2,4,5-Trichlorophenol	U		0.0113	0.333
2,4,6-Trichlorophenol	U		0.0107	0.333
(S) 2-Fluorophenol	*65.8*			*30.0-130*
(S) Phenol-d5	*62.2*			*30.0-130*
(S) Nitrobenzene-d5	*56.2*			*30.0-130*
(S) 2-Fluorobiphenyl	*74.5*			*30.0-130*
(S) 2,4,6-Tribromophenol	*80.2*			*30.0-130*
(S) p-Terphenyl-d14	*76.3*			*30.0-130*

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

(MB) R3652535-2 05/08/21 14:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	CAS #

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Laboratory Control Sample (LCS)

(LCS) R3652535-1 05/08/21 14:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.367	55.1	70.0-130	J4
Acenaphthylene	0.666	0.389	58.4	70.0-130	J4
Acetophenone	0.666	0.363	54.5	70.0-130	J4
Anthracene	0.666	0.388	58.3	70.0-130	J4
Atrazine	0.666	0.523	78.5	70.0-130	
Benzaldehyde	0.666	0.160	24.0	20.0-160	
Benzo(a)anthracene	0.666	0.462	69.4	70.0-130	J4
Benzo(b)fluoranthene	0.666	0.445	66.8	70.0-130	J4
Benzo(k)fluoranthene	0.666	0.434	65.2	70.0-130	J4
Benzo(g,h,i)perylene	0.666	0.441	66.2	70.0-130	J4
Benzo(a)pyrene	0.666	0.451	67.7	70.0-130	J4
Biphenyl	0.666	0.358	53.8	70.0-130	J4
Bis(2-chlorethoxy)methane	0.666	0.289	43.4	70.0-130	J4
Bis(2-chloroethyl)ether	0.666	0.296	44.4	70.0-130	J4
2,2-Oxybis(1-Chloropropane)	0.666	0.312	46.8	70.0-130	J4
4-Bromophenyl-phenylether	0.666	0.444	66.7	70.0-130	J4
Caprolactam	0.666	0.704	106	20.0-160	
Carbazole	0.666	0.412	61.9	70.0-130	J4
4-Chloroaniline	0.666	0.280	42.0	70.0-130	J4
2-Chloronaphthalene	0.666	0.356	53.5	70.0-130	J4
4-Chlorophenyl-phenylether	0.666	0.432	64.9	70.0-130	J4
Chrysene	0.666	0.432	64.9	70.0-130	J4
Dibenz(a,h)anthracene	0.666	0.441	66.2	70.0-130	J4
Dibenzofuran	0.666	0.401	60.2	70.0-130	J4
3,3-Dichlorobenzidine	1.33	0.856	64.4	70.0-130	J4
2,4-Dinitrotoluene	0.666	0.474	71.2	70.0-130	
2,6-Dinitrotoluene	0.666	0.432	64.9	70.0-130	J4
Fluoranthene	0.666	0.444	66.7	70.0-130	J4
Fluorene	0.666	0.399	59.9	70.0-130	J4
Hexachlorobenzene	0.666	0.431	64.7	70.0-130	J4

Laboratory Control Sample (LCS)

(LCS) R3652535-1 05/08/21 14:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	0.666	0.398	59.8	70.0-130	J4
Hexachlorocyclopentadiene	0.666	0.319	47.9	20.0-160	
Hexachloroethane	0.666	0.316	47.4	20.0-160	
Indeno(1,2,3-cd)pyrene	0.666	0.442	66.4	70.0-130	J4
Isophorone	0.666	0.295	44.3	70.0-130	J4
2-Methylnaphthalene	0.666	0.312	46.8	70.0-130	J4
Naphthalene	0.666	0.300	45.0	70.0-130	J4
2-Nitroaniline	0.666	0.455	68.3	70.0-130	J4
3-Nitroaniline	0.666	0.435	65.3	70.0-130	J4
4-Nitroaniline	0.666	0.522	78.4	70.0-130	
Nitrobenzene	0.666	0.284	42.6	70.0-130	J4
n-Nitrosodiphenylamine	0.666	0.389	58.4	20.0-160	
n-Nitrosodi-n-propylamine	0.666	0.312	46.8	70.0-130	J4
Phenanthrene	0.666	0.400	60.1	70.0-130	J4
Benzylbutyl phthalate	0.666	0.377	56.6	70.0-130	J4
Bis(2-ethylhexyl)phthalate	0.666	0.379	56.9	70.0-130	J4
Di-n-butyl phthalate	0.666	0.373	56.0	70.0-130	J4
Diethyl phthalate	0.666	0.392	58.9	70.0-130	J4
Dimethyl phthalate	0.666	0.421	63.2	70.0-130	J4
Di-n-octyl phthalate	0.666	0.385	57.8	70.0-130	J4
Pyrene	0.666	0.428	64.3	70.0-130	J4
4-Chloro-3-methylphenol	0.666	0.343	51.5	70.0-130	J4
2-Chlorophenol	0.666	0.352	52.9	70.0-130	J4
2-Methylphenol	0.666	0.348	52.3	70.0-130	J4
3&4-Methyl Phenol	0.666	0.396	59.5	20.0-160	
2,4-Dichlorophenol	0.666	0.379	56.9	70.0-130	J4
2,4-Dimethylphenol	0.666	0.312	46.8	70.0-130	J4
4,6-Dinitro-2-methylphenol	0.666	0.430	64.6	70.0-130	J4
2,4-Dinitrophenol	0.666	0.379	56.9	20.0-160	
2-Nitrophenol	0.666	0.355	53.3	70.0-130	J4
4-Nitrophenol	0.666	0.443	66.5	20.0-160	
Pentachlorophenol	0.666	0.401	60.2	20.0-160	
Phenol	0.666	0.338	50.8	20.0-160	
1,2,4,5-Tetrachlorobenzene	0.666	0.554	83.2	70.0-130	
2,4,5-Trichlorophenol	0.666	0.447	67.1	70.0-130	J4
2,4,6-Trichlorophenol	0.666	0.435	65.3	70.0-130	J4
(S) 2-Fluorophenol			*60.5*	*30.0-130*	
(S) Phenol-d5			*58.6*	*30.0-130*	
(S) Nitrobenzene-d5			*43.5*	*30.0-130*	
(S) 2-Fluorobiphenyl			*67.3*	*30.0-130*	

Laboratory Control Sample (LCS)

(LCS) R3652535-1 05/08/21 14:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) 2,4,6-Tribromophenol			*83.8*	*30.0-130*	
(S) p-Terphenyl-d14			*68.2*	*30.0-130*	

Method Blank (MB)

(MB) R3652992-2 05/10/21 15:58

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
Acetophenone	U		0.0104	0.333
Anthracene	U		0.00593	0.0333
Atrazine	U		0.0115	0.333
Benzaldehyde	U		0.0177	0.333
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
Biphenyl	U		0.0106	0.333
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
Caprolactam	U		0.0165	0.333
Carbazole	U		0.0103	0.333
4-Chloroaniline	U		0.0120	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
Dibenzofuran	U		0.0109	0.333
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
2-Methylnaphthalene	U		0.00432	0.0333
Naphthalene	U		0.00836	0.0333
2-Nitroaniline	U		0.0107	0.333
3-Nitroaniline	U		0.0106	0.333
4-Nitroaniline	U		0.00971	0.333

Method Blank (MB)

(MB) R3652992-2 05/10/21 15:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Nitrobenzene	U		0.0116	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
Pyrene	U		0.00648	0.0333
4-Chloro-3-methylphenol	U		0.0108	0.333
2-Chlorophenol	U		0.0110	0.333
2-Methylphenol	U		0.0100	0.333
3&4-Methyl Phenol	U		0.0104	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
1,2,4,5-Tetrachlorobenzene	U		0.0159	0.333
2,4,5-Trichlorophenol	U		0.0113	0.333
2,4,6-Trichlorophenol	U		0.0107	0.333
(S) Nitrobenzene-d5	*51.1*			*30.0-130*
(S) 2-Fluorobiphenyl	*59.2*			*30.0-130*
(S) p-Terphenyl-d14	*63.1*			*30.0-130*
(S) Phenol-d5	*58.4*			*30.0-130*
(S) 2-Fluorophenol	*62.9*			*30.0-130*
(S) 2,4,6-Tribromophenol	*64.6*			*30.0-130*

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

(MB) R3652992-2 05/10/21 15:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	CAS #

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Laboratory Control Sample (LCS)

(LCS) R3652992-1 05/10/21 15:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.305	45.8	70.0-130	J4
Acenaphthylene	0.666	0.333	50.0	70.0-130	J4
Acetophenone	0.666	0.337	50.6	70.0-130	J4
Anthracene	0.666	0.332	49.8	70.0-130	J4
Atrazine	0.666	0.396	59.5	70.0-130	J4
Benzaldehyde	0.666	0.273	41.0	20.0-160	
Benzo(a)anthracene	0.666	0.381	57.2	70.0-130	J4
Benzo(b)fluoranthene	0.666	0.354	53.2	70.0-130	J4
Benzo(k)fluoranthene	0.666	0.353	53.0	70.0-130	J4
Benzo(g,h,i)perylene	0.666	0.349	52.4	70.0-130	J4
Benzo(a)pyrene	0.666	0.356	53.5	70.0-130	J4
Biphenyl	0.666	0.302	45.3	70.0-130	J4
Bis(2-chlorethoxy)methane	0.666	0.269	40.4	70.0-130	J4
Bis(2-chloroethyl)ether	0.666	0.256	38.4	70.0-130	J4
2,2-Oxybis(1-Chloropropane)	0.666	0.297	44.6	70.0-130	J4
4-Bromophenyl-phenylether	0.666	0.358	53.8	70.0-130	J4
Caprolactam	0.666	0.632	94.9	20.0-160	
Carbazole	0.666	0.351	52.7	70.0-130	J4
4-Chloroaniline	0.666	0.238	35.7	70.0-130	J4
2-Chloronaphthalene	0.666	0.308	46.2	70.0-130	J4
4-Chlorophenyl-phenylether	0.666	0.341	51.2	70.0-130	J4
Chrysene	0.666	0.351	52.7	70.0-130	J4
Dibenz(a,h)anthracene	0.666	0.355	53.3	70.0-130	J4
Dibenzofuran	0.666	0.331	49.7	70.0-130	J4
3,3-Dichlorobenzidine	1.33	0.689	51.8	70.0-130	J4
2,4-Dinitrotoluene	0.666	0.395	59.3	70.0-130	J4
2,6-Dinitrotoluene	0.666	0.371	55.7	70.0-130	J4
Fluoranthene	0.666	0.354	53.2	70.0-130	J4
Fluorene	0.666	0.340	51.1	70.0-130	J4
Hexachlorobenzene	0.666	0.346	52.0	70.0-130	J4

Laboratory Control Sample (LCS)

(LCS) R3652992-1 05/10/21 15:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	0.666	0.265	39.8	70.0-130	J4
Hexachlorocyclopentadiene	0.666	0.259	38.9	20.0-160	
Hexachloroethane	0.666	0.288	43.2	20.0-160	
Indeno(1,2,3-cd)pyrene	0.666	0.367	55.1	70.0-130	J4
Isophorone	0.666	0.277	41.6	70.0-130	J4
2-Methylnaphthalene	0.666	0.260	39.0	70.0-130	J4
Naphthalene	0.666	0.255	38.3	70.0-130	J4
2-Nitroaniline	0.666	0.392	58.9	70.0-130	J4
3-Nitroaniline	0.666	0.366	55.0	70.0-130	J4
4-Nitroaniline	0.666	0.469	70.4	70.0-130	
Nitrobenzene	0.666	0.259	38.9	70.0-130	J4
n-Nitrosodiphenylamine	0.666	0.341	51.2	20.0-160	
n-Nitrosodi-n-propylamine	0.666	0.305	45.8	70.0-130	J4
Phenanthrene	0.666	0.337	50.6	70.0-130	J4
Benzylbutyl phthalate	0.666	0.398	59.8	70.0-130	J4
Bis(2-ethylhexyl)phthalate	0.666	0.396	59.5	70.0-130	J4
Di-n-butyl phthalate	0.666	0.352	52.9	70.0-130	J4
Diethyl phthalate	0.666	0.372	55.9	70.0-130	J4
Dimethyl phthalate	0.666	0.352	52.9	70.0-130	J4
Di-n-octyl phthalate	0.666	0.402	60.4	70.0-130	J4
Pyrene	0.666	0.365	54.8	70.0-130	J4
4-Chloro-3-methylphenol	0.666	0.273	41.0	70.0-130	J4
2-Chlorophenol	0.666	0.305	45.8	70.0-130	J4
2-Methylphenol	0.666	0.313	47.0	70.0-130	J4
3&4-Methyl Phenol	0.666	0.341	51.2	20.0-160	
2,4-Dichlorophenol	0.666	0.270	40.5	70.0-130	J4
2,4-Dimethylphenol	0.666	0.257	38.6	70.0-130	J4
4,6-Dinitro-2-methylphenol	0.666	0.381	57.2	70.0-130	J4
2,4-Dinitrophenol	0.666	0.334	50.2	20.0-160	
2-Nitrophenol	0.666	0.289	43.4	70.0-130	J4
4-Nitrophenol	0.666	0.396	59.5	20.0-160	
Pentachlorophenol	0.666	0.344	51.7	20.0-160	
Phenol	0.666	0.298	44.7	20.0-160	
1,2,4,5-Tetrachlorobenzene	0.666	0.342	51.4	70.0-130	J4
2,4,5-Trichlorophenol	0.666	0.303	45.5	70.0-130	J4
2,4,6-Trichlorophenol	0.666	0.324	48.6	70.0-130	J4
(S) Nitrobenzene-d5			*40.8*	*30.0-130*	
(S) 2-Fluorobiphenyl			*55.6*	*30.0-130*	
(S) p-Terphenyl-d14			*57.1*	*30.0-130*	
(S) Phenol-d5			*53.9*	*30.0-130*	

Laboratory Control Sample (LCS)

(LCS) R3652992-1 05/10/21 15:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) 2-Fluorophenol			*57.7*	*30.0-130*	
(S) 2,4,6-Tribromophenol			*65.3*	*30.0-130*	

Method Blank (MB)

(MB) R3651143-4 05/05/21 17:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetophenone	U		0.208	10.0
Atrazine	U		0.255	10.0
Benzaldehyde	U		1.69	10.0
Biphenyl	U		0.790	10.0
Bis(2-chlorethoxy)methane	U		0.116	10.0
Bis(2-chloroethyl)ether	U		0.137	10.0
2,2-Oxybis(1-Chloropropane)	U		0.210	10.0
4-Bromophenyl-phenylether	U		0.0877	10.0
Caprolactam	U		0.309	10.0
Carbazole	U		0.111	10.0
4-Chloroaniline	U		0.234	10.0
4-Chlorophenyl-phenylether	U		0.0926	10.0
Dibenzofuran	U		0.0970	10.0
3,3-Dichlorobenzidine	U		0.212	10.0
2,4-Dinitrotoluene	U		0.0983	10.0
2,6-Dinitrotoluene	U		0.250	10.0
Hexachloro-1,3-butadiene	U		0.0968	10.0
Hexachlorocyclopentadiene	U		0.0598	10.0
Hexachloroethane	U		0.127	10.0
Isophorone	U		0.143	10.0
2-Nitroaniline	U		0.102	10.0
3-Nitroaniline	U		0.0869	10.0
4-Nitroaniline	U		0.0910	10.0
Nitrobenzene	U		0.297	10.0
n-Nitrosodiphenylamine	U		2.37	10.0
n-Nitrosodi-n-propylamine	U		0.261	10.0
Benzylbutyl phthalate	U		0.765	3.00
Bis(2-ethylhexyl)phthalate	U		0.895	3.00
Di-n-butyl phthalate	U		0.453	3.00
Diethyl phthalate	U		0.287	3.00
Dimethyl phthalate	U		0.260	3.00
Di-n-octyl phthalate	U		0.932	3.00
4-Chloro-3-methylphenol	U		0.131	10.0
2-Chlorophenol	U		0.133	10.0
2-Methylphenol	U		0.0929	10.0
3&4-Methyl Phenol	U		0.168	10.0
2,4-Dichlorophenol	U		0.102	10.0
2,4-Dimethylphenol	U		0.0636	10.0
4,6-Dinitro-2-methylphenol	U		1.12	10.0
2,4-Dinitrophenol	U		5.93	10.0

Method Blank (MB)

(MB) R3651143-4 05/05/21 17:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
2-Nitrophenol	U		0.117	10.0
4-Nitrophenol	U		0.143	10.0
Pentachlorophenol	U		0.313	10.0
Phenol	U		4.33	10.0
1,2,4,5-Tetrachlorobenzene	U		0.0647	10.0
2,4,5-Trichlorophenol	U		0.109	10.0
2,4,6-Trichlorophenol	U		0.100	10.0
(S) Nitrobenzene-d5	*81.9*			*30.0-130*
(S) 2-Fluorobiphenyl	*100*			*30.0-130*
(S) p-Terphenyl-d14	*92.0*			*30.0-130*
(S) Phenol-d5	*30.3*			*15.0-110*
(S) 2-Fluorophenol	*44.6*			*15.0-110*
(S) 2,4,6-Tribromophenol	*93.5*			*15.0-110*

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

(MB) R3651143-4 05/05/21 17:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l	CAS #

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651143-1 05/05/21 16:19 • (LCSD) R3651143-2 05/05/21 16:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetophenone	50.0	49.0	46.1	98.0	92.2	70.0-130			6.10	20
Atrazine	50.0	55.3	51.4	111	103	70.0-130			7.31	20
Benzaldehyde	50.0	82.7	80.0	165	160	20.0-160	J4		3.32	20
Biphenyl	50.0	44.0	43.5	88.0	87.0	70.0-130			1.14	20
Bis(2-chlorethoxy)methane	50.0	37.2	35.5	74.4	71.0	70.0-130			4.68	20
Bis(2-chloroethyl)ether	50.0	41.2	38.6	82.4	77.2	70.0-130			6.52	20
2,2-Oxybis(1-Chloropropane)	50.0	37.9	36.6	75.8	73.2	70.0-130			3.49	20
4-Bromophenyl-phenylether	50.0	46.9	47.1	93.8	94.2	70.0-130			0.426	20
Caprolactam	50.0	14.4	12.7	28.8	25.4	20.0-160			12.5	20
Carbazole	50.0	52.3	50.7	105	101	70.0-130			3.11	20
4-Chloroaniline	50.0	33.4	28.3	66.8	56.6	70.0-130	J4	J4	16.5	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651143-1 05/05/21 16:19 • (LCSD) R3651143-2 05/05/21 16:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	50.0	46.3	44.8	92.6	89.6	70.0-130			3.29	20
Dibenzofuran	50.0	47.2	45.6	94.4	91.2	70.0-130			3.45	20
3,3-Dichlorobenzidine	100	114	105	114	105	70.0-130			8.22	20
2,4-Dinitrotoluene	50.0	51.1	47.2	102	94.4	70.0-130			7.93	20
2,6-Dinitrotoluene	50.0	46.6	43.6	93.2	87.2	70.0-130			6.65	20
Hexachloro-1,3-butadiene	50.0	36.2	36.9	72.4	73.8	70.0-130			1.92	20
Hexachlorocyclopentadiene	50.0	22.9	25.6	45.8	51.2	20.0-160			11.1	20
Hexachloroethane	50.0	36.4	37.2	72.8	74.4	20.0-160			2.17	20
Isophorone	50.0	37.7	35.5	75.4	71.0	70.0-130			6.01	20
2-Nitroaniline	50.0	51.6	49.4	103	98.8	70.0-130			4.36	20
3-Nitroaniline	50.0	45.7	41.6	91.4	83.2	70.0-130			9.39	20
4-Nitroaniline	50.0	52.6	47.6	105	95.2	70.0-130			9.98	20
Nitrobenzene	50.0	36.5	35.5	73.0	71.0	70.0-130			2.78	20
n-Nitrosodiphenylamine	50.0	46.1	45.1	92.2	90.2	20.0-160			2.19	20
n-Nitrosodi-n-propylamine	50.0	42.0	39.7	84.0	79.4	70.0-130			5.63	20
Benzylbutyl phthalate	50.0	47.0	46.0	94.0	92.0	70.0-130			2.15	20
Bis(2-ethylhexyl)phthalate	50.0	43.7	43.6	87.4	87.2	70.0-130			0.229	20
Di-n-butyl phthalate	50.0	49.5	48.7	99.0	97.4	70.0-130			1.63	20
Diethyl phthalate	50.0	48.1	45.1	96.2	90.2	70.0-130			6.44	20
Dimethyl phthalate	50.0	47.3	45.4	94.6	90.8	70.0-130			4.10	20
Di-n-octyl phthalate	50.0	45.7	45.7	91.4	91.4	70.0-130			0.000	20
4-Chloro-3-methylphenol	50.0	33.4	30.6	66.8	61.2	70.0-130	J4	J4	8.75	20
2-Chlorophenol	50.0	34.2	32.7	68.4	65.4	70.0-130	J4	J4	4.48	20
2-Methylphenol	50.0	28.9	27.0	57.8	54.0	70.0-130	J4	J4	6.80	20
3&4-Methyl Phenol	50.0	31.4	29.1	62.8	58.2	20.0-160			7.60	20
2,4-Dichlorophenol	50.0	37.3	35.0	74.6	70.0	70.0-130			6.36	20
2,4-Dimethylphenol	50.0	33.6	31.7	67.2	63.4	70.0-130	J4	J4	5.82	20
4,6-Dinitro-2-methylphenol	50.0	49.3	48.2	98.6	96.4	70.0-130			2.26	20
2,4-Dinitrophenol	50.0	48.0	43.8	96.0	87.6	20.0-160			9.15	20
2-Nitrophenol	50.0	39.3	36.9	78.6	73.8	70.0-130			6.30	20
4-Nitrophenol	50.0	14.5	14.0	29.0	28.0	20.0-160			3.51	20
Pentachlorophenol	50.0	41.2	42.0	82.4	84.0	20.0-160			1.92	20
Phenol	50.0	17.3	16.1	34.6	32.2	20.0-160			7.19	20
1,2,4,5-Tetrachlorobenzene	50.0	46.6	44.9	93.2	89.8	70.0-130			3.72	20
2,4,5-Trichlorophenol	50.0	45.7	43.7	91.4	87.4	70.0-130			4.47	20
2,4,6-Trichlorophenol	50.0	45.6	44.2	91.2	88.4	70.0-130			3.12	20
(S) Nitrobenzene-d5				*74.8*	*73.6*	*30.0-130*				
(S) 2-Fluorobiphenyl				*101*	*100*	*30.0-130*				
(S) p-Terphenyl-d14				*92.0*	*91.5*	*30.0-130*				
(S) Phenol-d5				*33.1*	*32.3*	*15.0-110*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651143-1 05/05/21 16:19 • (LCSD) R3651143-2 05/05/21 16:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 2-Fluorophenol				*46.6*	*44.6*	*15.0-110*				
(S) 2,4,6-Tribromophenol				*101*	*104*	*15.0-110*				

Method Blank (MB)

(MB) R3650706-2 05/05/21 00:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetophenone	U		0.208	10.0
Atrazine	U		0.255	10.0
Benzaldehyde	U		1.69	10.0
Biphenyl	U		0.790	10.0
Bis(2-chlorethoxy)methane	U		0.116	10.0
Bis(2-chloroethyl)ether	U		0.137	10.0
2,2-Oxybis(1-Chloropropane)	U		0.210	10.0
4-Bromophenyl-phenylether	U		0.0877	10.0
Caprolactam	U		0.309	10.0
Carbazole	U		0.111	10.0
4-Chloroaniline	U		0.234	10.0
4-Chlorophenyl-phenylether	U		0.0926	10.0
Dibenzofuran	U		0.0970	10.0
3,3-Dichlorobenzidine	U		0.212	10.0
2,4-Dinitrotoluene	U		0.0983	10.0
2,6-Dinitrotoluene	U		0.250	10.0
Hexachloro-1,3-butadiene	U		0.0968	10.0
Hexachlorocyclopentadiene	U		0.0598	10.0
Hexachloroethane	U		0.127	10.0
Isophorone	U		0.143	10.0
2-Nitroaniline	U		0.102	10.0
3-Nitroaniline	U		0.0869	10.0
4-Nitroaniline	U		0.0910	10.0
Nitrobenzene	U		0.297	10.0
n-Nitrosodiphenylamine	U		2.37	10.0
n-Nitrosodi-n-propylamine	U		0.261	10.0
Benzylbutyl phthalate	U		0.765	3.00
Bis(2-ethylhexyl)phthalate	U		0.895	3.00
Di-n-butyl phthalate	U		0.453	3.00
Diethyl phthalate	U		0.287	3.00
Dimethyl phthalate	U		0.260	3.00
Di-n-octyl phthalate	U		0.932	3.00
4-Chloro-3-methylphenol	U		0.131	10.0
2-Chlorophenol	U		0.133	10.0
2-Methylphenol	U		0.0929	10.0
3&4-Methyl Phenol	U		0.168	10.0
2,4-Dichlorophenol	U		0.102	10.0
2,4-Dimethylphenol	U		0.0636	10.0
4,6-Dinitro-2-methylphenol	U		1.12	10.0
2,4-Dinitrophenol	U		5.93	10.0

Method Blank (MB)

(MB) R3650706-2 05/05/21 00:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
2-Nitrophenol	U		0.117	10.0
4-Nitrophenol	U		0.143	10.0
Pentachlorophenol	U		0.313	10.0
Phenol	U		4.33	10.0
1,2,4,5-Tetrachlorobenzene	U		0.0647	10.0
2,4,5-Trichlorophenol	U		0.109	10.0
2,4,6-Trichlorophenol	U		0.100	10.0
(S) Nitrobenzene-d5	*54.6*			*30.0-130*
(S) 2-Fluorobiphenyl	*62.3*			*30.0-130*
(S) p-Terphenyl-d14	*71.6*			*30.0-130*
(S) Phenol-d5	*16.0*			*15.0-110*
(S) 2-Fluorophenol	*26.4*			*15.0-110*
(S) 2,4,6-Tribromophenol	*61.0*			*15.0-110*

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

(MB) R3650706-2 05/05/21 00:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l	CAS #

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Laboratory Control Sample (LCS)

(LCS) R3650706-1 05/05/21 00:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetophenone	50.0	31.2	62.4	70.0-130	J4
Atrazine	50.0	44.5	89.0	70.0-130	
Benzaldehyde	50.0	55.0	110	20.0-160	
Biphenyl	50.0	27.3	54.6	70.0-130	J4
Bis(2-chlorethoxy)methane	50.0	24.3	48.6	70.0-130	J4
Bis(2-chloroethyl)ether	50.0	26.5	53.0	70.0-130	J4
2,2-Oxybis(1-Chloropropane)	50.0	24.5	49.0	70.0-130	J4
4-Bromophenyl-phenylether	50.0	31.2	62.4	70.0-130	J4
Caprolactam	50.0	9.77	19.5	20.0-160	J4
Carbazole	50.0	38.1	76.2	70.0-130	
4-Chloroaniline	50.0	28.1	56.2	70.0-130	J4

Laboratory Control Sample (LCS)

(LCS) R3650706-1 05/05/21 00:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Chlorophenyl-phenylether	50.0	30.7	61.4	70.0-130	J4
Dibenzofuran	50.0	30.1	60.2	70.0-130	J4
3,3-Dichlorobenzidine	100	77.9	77.9	70.0-130	
2,4-Dinitrotoluene	50.0	37.0	74.0	70.0-130	
2,6-Dinitrotoluene	50.0	31.8	63.6	70.0-130	J4
Hexachloro-1,3-butadiene	50.0	25.8	51.6	70.0-130	J4
Hexachlorocyclopentadiene	50.0	14.0	28.0	20.0-160	
Hexachloroethane	50.0	25.5	51.0	20.0-160	
Isophorone	50.0	27.3	54.6	70.0-130	J4
2-Nitroaniline	50.0	35.7	71.4	70.0-130	
3-Nitroaniline	50.0	37.2	74.4	70.0-130	
4-Nitroaniline	50.0	39.1	78.2	70.0-130	
Nitrobenzene	50.0	23.5	47.0	70.0-130	J4
n-Nitrosodiphenylamine	50.0	30.9	61.8	20.0-160	
n-Nitrosodi-n-propylamine	50.0	27.5	55.0	70.0-130	J4
Benzylbutyl phthalate	50.0	40.9	81.8	70.0-130	
Bis(2-ethylhexyl)phthalate	50.0	39.5	79.0	70.0-130	
Di-n-butyl phthalate	50.0	41.3	82.6	70.0-130	
Diethyl phthalate	50.0	37.9	75.8	70.0-130	
Dimethyl phthalate	50.0	35.8	71.6	70.0-130	
Di-n-octyl phthalate	50.0	40.2	80.4	70.0-130	
4-Chloro-3-methylphenol	50.0	26.6	53.2	70.0-130	J4
2-Chlorophenol	50.0	23.7	47.4	70.0-130	J4
2-Methylphenol	50.0	19.9	39.8	70.0-130	J4
3&4-Methyl Phenol	50.0	20.6	41.2	20.0-160	
2,4-Dichlorophenol	50.0	27.8	55.6	70.0-130	J4
2,4-Dimethylphenol	50.0	25.3	50.6	70.0-130	J4
4,6-Dinitro-2-methylphenol	50.0	39.0	78.0	70.0-130	
2,4-Dinitrophenol	50.0	38.6	77.2	20.0-160	
2-Nitrophenol	50.0	26.7	53.4	70.0-130	J4
4-Nitrophenol	50.0	9.95	19.9	20.0-160	J4
Pentachlorophenol	50.0	34.9	69.8	20.0-160	
Phenol	50.0	9.77	19.5	20.0-160	J4
1,2,4,5-Tetrachlorobenzene	50.0	32.1	64.2	70.0-130	J4
2,4,5-Trichlorophenol	50.0	32.2	64.4	70.0-130	J4
2,4,6-Trichlorophenol	50.0	29.6	59.2	70.0-130	J4
(S) Nitrobenzene-d5			*50.6*	*30.0-130*	
(S) 2-Fluorobiphenyl			*62.8*	*30.0-130*	
(S) p-Terphenyl-d14			*77.6*	*30.0-130*	
(S) Phenol-d5			*18.0*	*15.0-110*	

Laboratory Control Sample (LCS)

(LCS) R3650706-1 05/05/21 00:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) 2-Fluorophenol			*28.7*	*15.0-110*	
(S) 2,4,6-Tribromophenol			*74.0*	*15.0-110*	

L1345649-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1345649-06 05/05/21 00:43 • (MS) R3650706-3 05/05/21 01:04 • (MSD) R3650706-4 05/05/21 01:26

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetophenone	50.0	U	22.5	29.0	45.0	58.0	1	70.0-130	J6	J6	25.2	34.9
Atrazine	50.0	U	39.8	43.7	79.6	87.4	1	70.0-130			9.34	20
Benzaldehyde	50.0	U	38.8	49.4	77.6	98.8	1	20.0-160			24.0	37.7
Biphenyl	50.0	U	20.0	26.0	40.0	52.0	1	70.0-130	J6	J3 J6	26.1	20
Bis(2-chlorethoxy)methane	50.0	U	18.8	23.1	37.6	46.2	1	70.0-130	J6	J6	20.5	25.8
Bis(2-chloroethyl)ether	50.0	U	19.1	24.3	38.2	48.6	1	70.0-130	J6	J6	24.0	40
2,2-Oxybis(1-Chloropropane)	50.0	U	17.2	22.4	34.4	44.8	1	70.0-130	J6	J6	26.3	37.2
4-Bromophenyl-phenylether	50.0	U	26.3	30.9	52.6	61.8	1	70.0-130	J6	J6	16.1	23.2
Caprolactam	50.0	U	10.3	10.4	20.6	20.8	1	20.0-160			0.966	37.3
Carbazole	50.0	U	35.4	38.6	70.8	77.2	1	70.0-130			8.65	20
4-Chloroaniline	50.0	U	28.6	30.5	57.2	61.0	1	70.0-130	J6	J6	6.43	21.9
4-Chlorophenyl-phenylether	50.0	U	24.1	29.7	48.2	59.4	1	70.0-130	J6	J3 J6	20.8	20
Dibenzofuran	50.0	U	22.4	28.5	44.8	57.0	1	70.0-130	J6	J3 J6	24.0	20
3,3-Dichlorobenzidine	100	U	64.8	74.6	64.8	74.6	1	70.0-130	J6		14.1	26.9
2,4-Dinitrotoluene	50.0	U	32.1	36.0	64.2	72.0	1	70.0-130	J6		11.5	20.6
2,6-Dinitrotoluene	50.0	U	26.0	30.7	52.0	61.4	1	70.0-130	J6	J6	16.6	22.2
Hexachloro-1,3-butadiene	50.0	U	17.6	23.1	35.2	46.2	1	70.0-130	J6	J6	27.0	37.6
Hexachlorocyclopentadiene	50.0	U	13.9	16.4	27.8	32.8	1	20.0-160			16.5	27.8
Hexachloroethane	50.0	U	17.1	22.8	34.2	45.6	1	20.0-160			28.6	40
Isophorone	50.0	U	21.7	25.6	43.4	51.2	1	70.0-130	J6	J6	16.5	22.9
2-Nitroaniline	50.0	U	29.7	35.4	59.4	70.8	1	70.0-130	J6		17.5	21.8
3-Nitroaniline	50.0	U	35.3	39.2	70.6	78.4	1	70.0-130			10.5	23
4-Nitroaniline	50.0	U	35.6	39.7	71.2	79.4	1	70.0-130			10.9	22.4
Nitrobenzene	50.0	U	17.7	22.2	35.4	44.4	1	70.0-130	J6	J6	22.6	29
n-Nitrosodiphenylamine	50.0	U	23.2	29.0	46.4	58.0	1	20.0-160		J3	22.2	20
n-Nitrosodi-n-propylamine	50.0	U	20.4	25.9	40.8	51.8	1	70.0-130	J6	J6	23.8	29.7
Benzylbutyl phthalate	50.0	U	36.3	39.2	72.6	78.4	1	70.0-130			7.68	21.2
Bis(2-ethylhexyl)phthalate	50.0	U	35.0	38.0	70.0	76.0	1	70.0-130			8.22	27.6
Di-n-butyl phthalate	50.0	U	36.8	40.2	73.6	80.4	1	70.0-130			8.83	20
Diethyl phthalate	50.0	0.390	32.9	37.5	65.0	74.2	1	70.0-130	J6		13.1	20
Dimethyl phthalate	50.0	U	30.4	34.3	60.8	68.6	1	70.0-130	J6	J6	12.1	20

L1345649-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1345649-06 05/05/21 00:43 • (MS) R3650706-3 05/05/21 01:04 • (MSD) R3650706-4 05/05/21 01:26

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Di-n-octyl phthalate	50.0	U	36.1	39.0	72.2	78.0	1	70.0-130			7.72	22.9
4-Chloro-3-methylphenol	50.0	U	24.6	27.7	49.2	55.4	1	70.0-130	J6	J6	11.9	20
2-Chlorophenol	50.0	U	18.8	23.5	37.6	47.0	1	70.0-130	J6	J6	22.2	32.4
2-Methylphenol	50.0	U	17.7	20.7	35.4	41.4	1	70.0-130	J6	J6	15.6	40
3&4-Methyl Phenol	50.0	U	18.1	21.0	36.2	42.0	1	20.0-160			14.8	27.7
2,4-Dichlorophenol	50.0	U	21.2	26.6	42.4	53.2	1	70.0-130	J6	J6	22.6	27.3
2,4-Dimethylphenol	50.0	U	21.0	25.1	42.0	50.2	1	70.0-130	J6	J6	17.8	35.4
4,6-Dinitro-2-methylphenol	50.0	U	32.2	37.7	64.4	75.4	1	70.0-130	J6		15.7	37.4
2,4-Dinitrophenol	50.0	U	32.1	37.1	64.2	74.2	1	20.0-160			14.5	40
2-Nitrophenol	50.0	U	19.1	24.2	38.2	48.4	1	70.0-130	J6	J6	23.6	34
4-Nitrophenol	50.0	U	9.54	10.5	19.1	21.0	1	20.0-160	J6		9.58	40
Pentachlorophenol	50.0	U	26.0	33.7	52.0	67.4	1	20.0-160			25.8	40
Phenol	50.0	U	9.44	10.6	18.9	21.2	1	20.0-160	J6		11.6	40
1,2,4,5-Tetrachlorobenzene	50.0	U	23.0	29.6	46.0	59.2	1	70.0-130	J6	J6	25.1	29.8
2,4,5-Trichlorophenol	50.0	U	26.2	31.5	52.4	63.0	1	70.0-130	J6	J6	18.4	33.8
2,4,6-Trichlorophenol	50.0	U	23.2	29.1	46.4	58.2	1	70.0-130	J6	J6	22.6	29.9
(S) Nitrobenzene-d5					*37.1*	*45.4*		*30.0-130*				
(S) 2-Fluorobiphenyl					*44.9*	*58.8*		*30.0-130*				
(S) p-Terphenyl-d14					*69.0*	*75.5*		*30.0-130*				
(S) Phenol-d5					*15.7*	*17.2*		*15.0-110*				
(S) 2-Fluorophenol					*24.2*	*28.2*		*15.0-110*				
(S) 2,4,6-Tribromophenol					*63.5*	*73.5*		*15.0-110*				

Method Blank (MB)

(MB) R3651329-3 05/06/21 00:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Anthracene	U		0.0190	0.0500
Acenaphthene	U		0.0190	0.0500
Acenaphthylene	U		0.0171	0.0500
Benzo(a)anthracene	U		0.0203	0.0500
Benzo(a)pyrene	U		0.0184	0.0500
Benzo(b)fluoranthene	U		0.0168	0.0500
Benzo(g,h,i)perylene	U		0.0184	0.0500
Benzo(k)fluoranthene	U		0.0202	0.0500
Chrysene	U		0.0179	0.0500
Dibenz(a,h)anthracene	U		0.0160	0.0500
Fluoranthene	U		0.0270	0.100
Fluorene	U		0.0169	0.0500
Hexachlorobenzene	U		0.00670	0.0200
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500
Naphthalene	U		0.0917	0.250
Phenanthrene	U		0.0180	0.0500
Pyrene	U		0.0169	0.0500
1-Methylnaphthalene	U		0.0687	0.250
2-Methylnaphthalene	U		0.0674	0.250
2-Chloronaphthalene	U		0.0682	0.250
(S) Nitrobenzene-d5	*104*			*31.0-160*
(S) 2-Fluorobiphenyl	*88.5*			*48.0-148*
(S) p-Terphenyl-d14	*103*			*37.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651329-1 05/05/21 23:57 • (LCSD) R3651329-2 05/06/21 00:17

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	2.00	1.98	1.93	99.0	96.5	70.0-130			2.56	20
Acenaphthene	2.00	1.92	1.92	96.0	96.0	70.0-130			0.000	20
Acenaphthylene	2.00	2.15	2.13	108	106	70.0-130			0.935	20
Benzo(a)anthracene	2.00	2.04	2.07	102	103	70.0-130			1.46	20
Benzo(a)pyrene	2.00	1.76	1.79	88.0	89.5	70.0-130			1.69	20
Benzo(b)fluoranthene	2.00	1.75	1.80	87.5	90.0	70.0-130			2.82	20
Benzo(g,h,i)perylene	2.00	1.70	1.72	85.0	86.0	70.0-130			1.17	20
Benzo(k)fluoranthene	2.00	1.70	1.74	85.0	87.0	70.0-130			2.33	20
Chrysene	2.00	1.82	1.87	91.0	93.5	70.0-130			2.71	20
Dibenz(a,h)anthracene	2.00	1.74	1.76	87.0	88.0	70.0-130			1.14	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3651329-1 05/05/21 23:57 • (LCSD) R3651329-2 05/06/21 00:17

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Fluoranthene	2.00	2.00	1.91	100	95.5	70.0-130			4.60	20
Fluorene	2.00	1.94	1.92	97.0	96.0	70.0-130			1.04	20
Hexachlorobenzene	2.00	1.73	1.63	86.5	81.5	70.0-130			5.95	20
Indeno(1,2,3-cd)pyrene	2.00	1.83	1.83	91.5	91.5	70.0-130			0.000	20
Naphthalene	2.00	1.64	1.63	82.0	81.5	70.0-130			0.612	20
Phenanthrene	2.00	1.94	1.89	97.0	94.5	70.0-130			2.61	20
Pyrene	2.00	1.77	1.80	88.5	90.0	70.0-130			1.68	20
1-Methylnaphthalene	2.00	1.75	1.76	87.5	88.0	70.0-130			0.570	20
2-Methylnaphthalene	2.00	1.67	1.68	83.5	84.0	70.0-130			0.597	20
2-Chloronaphthalene	2.00	1.70	1.68	85.0	84.0	70.0-130			1.18	20
(S) Nitrobenzene-d5				*105*	*106*	*31.0-160*				
(S) 2-Fluorobiphenyl				*86.5*	*87.0*	*48.0-148*				
(S) p-Terphenyl-d14				*98.5*	*102*	*37.0-146*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RT	Retention Time.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.

GLOSSARY OF TERMS

Qualifier	Description
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
N	The analyte is tentatively identified and the associated numerical value may not be consistent with the actual concentration present in the sample.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P	RPD between the primary and confirmatory analysis exceeded 40%.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
TTI Environmental, Inc. - NJ

1253 North Church Street
Moorestown, NJ 08057

Billing Information:
Attn: Accounts Payable
1253 N Church St
Moorestown, NJ 08057

Pres Chk

Report to:
Mr. Andy Basehoar

Email To: **andyb@ttienv.com**

Project Description:
CRA Reliable Tire

City/State Collected: Camden, NJ

Please Circle: PT MT CT (ET)

Phone: **856-840-8800**

Client Project # 20-763

Lab Project # **TTIENVMNJ-CRARELIABL**

Collected by (print): Alec Halbruner

Site/Facility ID # **NJ**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CN,SV8081/8082NJ,TS 4ozClr-NoPres	M6010TAL METALS 2ozClr-NoPres	SV8082NJ, TS 4ozClr-NoPres	SV8270PAHDNJTIC * 4ozAmb-NoPres	SV8270PAHDNJTIC,TS 4ozAmb-NoPres	SV8270TCLDNJTIC 4ozAmb-NoPres & NJ EPH Cat. 2	TS 4ozClr-NoPres	V8260TCLNJTIC 40ml/NaHSO4/Syr/MeOH			Remarks	Sample # (lab only)
TP 1 @ 4-4.5	G	SS	4-4.5	4/28/21	0850	6	X	X				X		X				-01
TP 2 @ 2.75-3.25		SS	2.75-3.25		0940	6	X	X				X		X				-02
TP 3 @ 3.5-4		SS	3.5-4		1020	6	X	X				X		X				-03
TP 4 @ 0.5-1		SS	0.5-1		1040	6	X	X				X		X				-04
TP 5 @ 1.5-2		SS	1.5-2		1100	6	X	X				X		X				-05
TP 6 @ 3-3.5		SS	3-3.5		1130	6	X	X				X		X				-06
TP 7 @ 2.5-3		SS	2.5-3		1215	6	X	X				X		X				-07
TP 8 @ 2-2.5		SS	2-2.5		1255	6	X	X				X		X				-08
TP 9 @ 5-5.5		SS	5-5.5		1400	6	X	X				X		X				-09
TP 10 @ 4-4.5		SS	4-4.5		1440	6	X	X				X		X				-10

Analysis / Container / Preservative

Chain of Custody Page 1 of 4

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SDG # L1346268

C013

Acctnum: **TTIENVMNJ**
Template: **T186156**
Prelogin: **P842448**
PM: **3513 - Jennifer Huckaba**
PB: **TB 4-22-21**
Shipped Via: **FedEX Standard**

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

Remarks: For SV8270PAHDNJTIC*, list is only Nap & 2-Methylnap. Use TTIENVMNJ-CRA-NAP2MN project for those samples.

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	If preservation required by Login: Date/Time
	4/29/21	1020		3	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.8°C -1=0.7°C Bottles Received: 24 3	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-30-21 Time: 1200	Hold: Condition: NCF / OK

Company Name/Address:
TTI Environmental, Inc. - NJ
1253 North Church Street
Moorestown, NJ 08057

Billing Information:
Attn: Accounts Payable
1253 N Church St
Moorestown, NJ 08057

Report to: Mr. Andy Basehoar
Email To: andyb@ttienv.com

Project Description: CRA Reliable Tire
City/State Collected: Camden, NJ
Please Circle: PT MT CT ET

Phone: 856-840-8800
Client Project # 20-763
Lab Project # TTIENVMNJ-CRARELIABL

Collected by (print): Alec Halbrook
Site/Facility ID # NJ
P.O. #

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

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

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 4

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SDG # L1316268
Table #
Acctnum: TTIENVMNJ
Template: T186156
Prelogin: P842448
PM: 3513 - Jennifer Huckaba
PB: TB 4-22-21
Shipped Via: FedEX Standard

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CN,SV8081/8082NJ,TS 4ozClr-NoPres	M6010TAL METALS 2ozClr-NoPres	SV8082NJ, TS 4ozClr-NoPres	SV8270PAHDNJTIC * 4ozAmb-NoPres	SV8270PAHDNJTIC,TS 4ozAmb-NoPres	SV8270TCLDNJTIC 4ozAmb-NoPres (Nat EPH Cont. 2)	TS 4ozClr-NoPres	V8260TCLNJTIC 40ml/NaHSO4/Syr/MeOH			Remarks	Sample # (lab only)
TP 11 @ 1.5-2	G	SS	1.5-2	4/29/21	1515	16	X	X	X			X		X				-11
TP 12 @ 0.5-1		SS	0.5-1		1535	16	X	X	X			X		X				-12
TP-BD-1		SS	—		1200	16	X	X				X		X				-13
TP-BD-2		SS	—		1300	16	X	X				X		X				-14
		SS				1		X										
		SS				1		X										
		SS				1		X										
		SS				1		X										
		SS				1		X										
		SS				1		X										

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

Remarks: For SV8270PAHDNJTIC*, list is only Nap & 2-Methylnap. Use TTIENVMNJ-CRA-NAP2MN project for those samples.

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
	4/29/21	1080		3
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.8 °C Bottles Received: 243
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-30-21 Time: 1200
				Hold: Condition: NCF / OK

Company Name/Address:
TTI Environmental, Inc. - NJ

1253 North Church Street
Moorestown, NJ 08057

Billing Information:
Attn: Accounts Payable
1253 N Church St
Moorestown, NJ 08057

Report to:
Mr. Andy Basehoar

Email To: **andyb@ttienv.com**

Project Description:
CRA Reliable Tire

City/State Collected: **Camden, NJ**

Please Circle: PT MT CT (ET)

Phone: **856-840-8800**

Client Project #
20-763

Lab Project #
TTIENVMNJ-CRA-NAP2MN

Collected by (print):
Alec Halbruner

Site/Facility ID #
NJ

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CN,SV8081/8082NJ,TS 4ozClr-NoPres EPH Cat. 2	M6010TAL METALS 2ozClr-NoPres Full TCL/TAL	SV8082NJ, TS 4ozClr-NoPres	SV8270PAHDNJTIC * 4ozAmb-NoPres	SV8270PAHDNJTIC,TS 4ozAmb-NoPres	SV8270TCLDNJTIC 4ozAmb-NoPres	TS 4ozClr-NoPres	V8260TCLNJTIC 40ml/NaHSO4/Syr/MeOH	VOCs, PAHs, TAL Metals	PAHs, TAL Metals	Remarks	Sample # (lab only)
AOC 8-9 @ 13.0-13.5	Grab	SS	13-13.5	4/28/21	0923	6	X	X		X								-15
AOC8-10 @ 13.0-13.5		SS	13-13.5		0930	6	X	X		X								-16
AOC10-3 @ 12.5-13.0		SS	12.5-13		0945	5				X					X			-17
AOC10-4 @ 12.0-12.5		SS	12-12.5		0955	6				X					X			-18
AOC10-5 @ 11.0-11.5		SS	11-11.5		1003	6				X					X			-19
AOC10-6 @ 11.5-12.0		SS	11.5-12		1033	6				X					X			-20
AOC10-7 @ 12.0-12.5		SS	12-12.5		1045	6				X					X			-21
AOC9-1 @ 0.0-0.5		SS	0-0.5		1110	12				X						X		-22

Chain of Custody Page 3 of 4

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SDG # L1346268

Table #

Acctnum: **TTIENVMNJ**
Template: **T186156**
Prelogin: **P842448**
PM: **3513 - Jennifer Huckaba**
PB: TB 4-22-21
Shipped Via: **FedEX Standard**

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

Remarks: For SV8270PAHDNJTIC*, list is only Nap & 2-Methylnap. Use TTIENVMNJ-CRA-NAP2MN project for those samples.

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

	Date:	Time:	
Relinquished by : (Signature)	4/29/21	1020	Received by: (Signature)
Relinquished by : (Signature)			Received by: (Signature)
Relinquished by : (Signature)			Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR
3

Temp: 0.8-1=0.7°C Bottles Received: 243

Date: 4-30-21 Time: 1200

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
TTI Environmental, Inc. - NJ

1253 North Church Street
Moorestown, NJ 08057

Billing Information:
Attn: Accounts Payable
1253 N Church St
Moorestown, NJ 08057

Pres Chk

Report to:
Mr. Andy Basehoar

Email To: **andyb@ttienv.com**

Project Description:
CRA Reliable Tire

City/State Collected: Camden, NJ

Please Circle: PT MT CT ET

Phone: **856-840-8800**

Client Project # 20-763

Lab Project # **TTIENVMNJ-CRARELIABL**

Collected by (print): Alec Halbauer

Site/Facility ID # **NJ**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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 JD

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs JD	6N,SV8081,8082NJ,TS 4ozClr-NoPres VOCs	M6010TAL METALS 2ozClr-NoPres Full TAL ITAL	SV8082NJ, TS 4ozClr-NoPres	SV8270PAHDNJTIC * 4ozAmb-NoPres	SV8270PAHDNJTIC,TS 4ozAmb-NoPres	SV8270TCLDNJTIC 4ozAmb-NoPres	TS 4ozClr-NoPres	V8260TCLNJTIC 40ml/NaHSO4/Syr/MeOH	EDH Cat. 2		Remarks	Sample # (lab only)
AOC 2-1@ 1.0-1.5	Grab	SS	1-1.5	4/28/21	1013	6		X					X	X	X			-23
AOC 2-2@ 11.5-12.0		SS	11.5-12		1024	6		X					X	X	X			-24
TW-1		~~SS~~ GW	-		1105	4		X					X	X				-25
TW-2		~~SS~~ GW	-		1340	4		X					X	X				-26
TW-3		~~SS~~ GW	-		1435	4		X					X	X				-27
TW-4		~~SS~~ GW	-		1540	4		X					X	X				-28
BD-TW		~~SS~~ GW	-		-	4		X					X	X				-29
FB42821		~~SS~~ GW	-		1625	4		X					X	X				-30
EB42821		~~SS~~ GW	-		1645	4		X					X	X				-31
TB42821		~~SS~~ GW	-		1705	3	X						X	X				-32

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

Remarks: For SV8270PAHDNJTIC*, list is only Nap & 2-Methylnap. Use TTIENVMNJ-CRA-NAP2MN project for those samples. TD

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

	Date:	Time:		
Relinquished by : (Signature)	4/29/21	1020	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.8-1=0.7°C Bottles Received: 23
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-30-21 Time: 1200

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Chain of Custody Page 4 of 4

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SDG # L1346268

Table #

Acctnum: **TTIENVMNJ**

Template: **T186156**

Prelogin: **P842448**

PM: **3513 - Jennifer Huckaba**

PB: TB 4-22-21

Shipped Via: **FedEX Standard**

DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name: Pace Analytical National ***Client:*** TTI Environmental, Inc.

Project Location: Camden, NJ ***Project Number:*** 20-763

Laboratory Sample ID(s): L1346268-01 thru -32 ***Sampling Date(s):*** 04/28/21

List DKQP Methods Used (e.g., 8260, 8270, et cetera) NJEPH,4500CN E-2011,9012B,7470A,6020B, 8260D,8011,8081B,8082A,8270E,8270E-SIM, 6010D, 7471B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	X Yes □ No
1A	Were the method specified handling, preservation, and holding time requirements met?	X Yes □ No
1B	*EPH Method*: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	X Yes □ No □ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	X Yes □ No
3	Were samples received at an appropriate temperature (4±2° C)?	X Yes □ No □ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	□ Yes X No
5	a) Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b) Were these reporting limits met?	X Yes □ No □ Yes X No □ NA
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	X Yes □ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	X Yes □ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Data of Known Quality."

ANALYTICAL REPORT

May 12, 2021

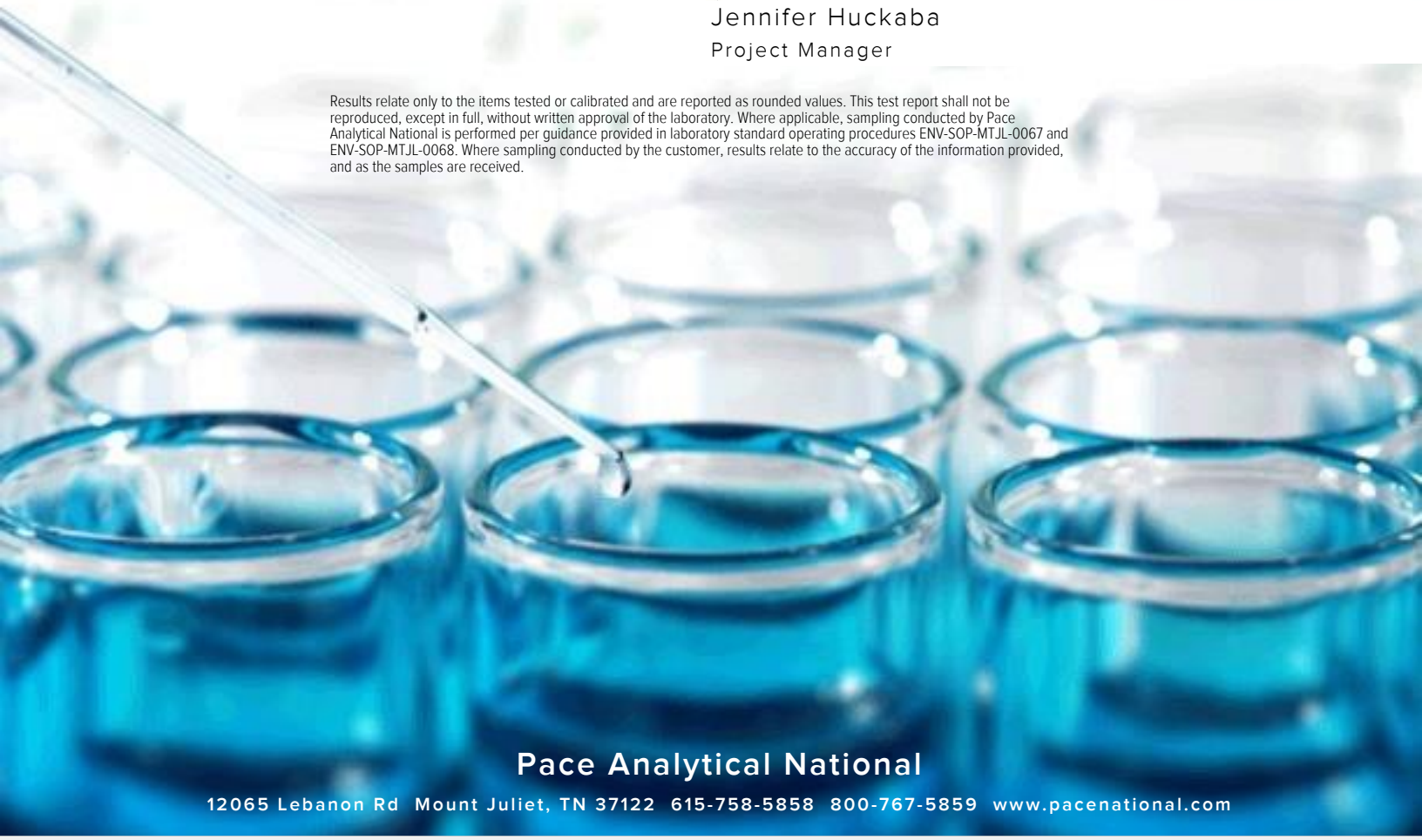
TTI Environmental, Inc. - NJ

Sample Delivery Group:	L1347318
Samples Received:	04/27/2021
Project Number:	20-763
Description:	CRA Reliable Tire
Site:	NJ
Report To:	Mr. Andy Basehoar 1253 North Church Street Moorestown, NJ 08057

Entire Report Reviewed By:

Jennifer Huckaba

Project Manager



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SAMPLE SUMMARY

AOC1-22 @ 12.0-12.5 L1347318-01 Solid

Collected by: Alec Halbruner
Collected date/time: 04/26/21 13:15
Received date/time: 04/27/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661986	1	05/01/21 20:20	05/01/21 20:29	JAV	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG1667237	1	05/10/21 09:41	05/11/21 04:09	AAT	Mt. Juliet, TN

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jennifer Huckaba
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	05/01/2021 20:29	WG1661986

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Naphthalene	U		0.00874	0.0348	1	05/11/2021 04:09	WG1667237
2-Methylnaphthalene	U		0.00452	0.0348	1	05/11/2021 04:09	WG1667237
(S) Nitrobenzene-d5	*74.2*			*31.0-146*		*05/11/2021 04:09*	WG1667237
(S) 2-Fluorobiphenyl	*73.4*			*31.0-130*		*05/11/2021 04:09*	WG1667237
(S) p-Terphenyl-d14	*83.8*			*20.0-127*		*05/11/2021 04:09*	WG1667237

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	CAS #	RT
	mg/kg		mg/kg	mg/kg		date / time			

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Method Blank (MB)

(MB) R3649353-1 05/01/21 20:29

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1344477-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1344477-24 05/01/21 20:29 • (DUP) R3649353-3 05/01/21 20:29

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.0	93.7	1	0.395		10

Laboratory Control Sample (LCS)

(LCS) R3649353-2 05/01/21 20:29

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3652746-1 05/10/21 19:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Naphthalene	U		0.00836	0.0333
2-Methylnaphthalene	U		0.00432	0.0333
(S) Nitrobenzene-d5	*72.9*			*31.0-146*
(S) 2-Fluorobiphenyl	*73.7*			*31.0-130*
(S) p-Terphenyl-d14	*99.3*			*20.0-127*

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

(MB) R3652746-1 05/10/21 19:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	CAS #

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652746-3 05/10/21 20:19 • (LCSD) R3652746-4 05/10/21 20:40

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 %
2-Methylnaphthalene	0.400	0.349	0.316	87.3	79.0	70.0-130			9.92	30
Naphthalene	0.400	0.345	0.322	86.3	80.5	70.0-130			6.90	30
(S) Nitrobenzene-d5				*81.4*	*78.3*	*31.0-146*				
(S) 2-Fluorobiphenyl				*86.0*	*80.7*	*31.0-130*				
(S) p-Terphenyl-d14				*104*	*93.0*	*20.0-127*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RT	Retention Time.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
TTI Environmental, Inc. - NJ
1253 North Church Street
Moorestown, NJ 08057

Billing Information:
Attn: Accounts Payable
1253 N Church St
Moorestown, NJ 08057

Pres Chk

Report to: Mr. Andy Basehoar

Email To: andyb@ttienv.com

Project Description: CRA Reliable Tire

City/State Collected: Camden, NJ

Please Circle: PT MT CT NJ

Phone: 856-840-8800

Client Project # 20-763

Lab Project # TTIENVMNJ-CRARELIABL

Collected by (print): Alec Halbleib

Site/Facility ID # NJ

P.O. #

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

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

Analysis / Container / Preservative

Chain of Custody Page 3 of 4

Pace Analytical

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 # L1344477 NV 5/4/21

Table # L134 7318

Acctnum: TTIENVMNJ

Template: T186181

Prelogin: P842445

PM: 3513 - Jennifer Huckaba

PB: TB 4-22-21

Shipped Via: FedEX Standard

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	DRO/RTA(DRO/ORO), TS 4oz Clr-NoPres	GRO 40ml/NaHSO4/Syr/MeOH	SVEPHSNJ (CAT 1), TS 4oz Amb-NoPres	SVEPHSNJ (CAT 2), TS 4oz Amb-NoPres	EPH Cat. I	PAHs (Mold)	Naphthalene + 2-methylnaphthalene (Mold)	Remarks	Sample # (lab only)
AOC1-21@12.0-12.5	Grab	SS	12-12.5	4/26/21	1305	1			X		X	X	X		-21
AOC1-22@12.0-12.5		SS	12-12.5		1315	1			X		X	X	X		-22 -01
AOC1-23@12.0-12.5		SS	12-12.5		1325	1			X		X	X	X		-23
AOC1-24@11.5-12.0		SS	11.5-12		1332	1			X		X	X	X		-24
AOC1-25@10.5-11.0		SS	10.5-11		1405	1			X		X	X	X		-25
AOC1-26@10.5-11.0		SS	10.5-11		1415	1			X		X	X	X		-26
AOC1-27@10.5-11.0		SS	10.5-11		1430	1			X		X	X	X		-27
AOC1-28@11.5-12.0		SS	11.5-12		1435	1			X		X	X	X		
BD-1		SS	—		—	1			X		X	X	X		-28
BD-2		SS	—		—	1			X		X	X	X		-29

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

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	
	4/26/21	1545			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2 °C Bottles Received: 62	If preservation required by Login: Date/Time
				4/27/21 0303	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/27/21 Time: 1230	Hold: / Condition: NCF / OK

FW: Pace Analytical National Login for 20-763 CRA Reliable Tire L1344477

R5

L1344477-22 - please RELOG to new # and add SV8270PAHNJ - and update ESC key to this project name: TTIENVMNJ-CRA-NAP2MN, so that it will be custom to just report the Nap & 2 Methylnap being requested by client on this sample.
New Due date - 5/10 R5.

Thank you.

Jennifer Huckaba
Project Manager
615.773.7946
Cell Phone: 615-881-3341

-----Original Message-----
From: Andy Basehoar <andyb@ttienv.com>
Sent: Monday, May 3, 2021 3:15 PM
To: Jennifer Huckaba <Jennifer.Huckaba@pacelabs.com>
Subject: RE: Pace Analytical National Login for 20-763 CRA Reliable Tire L1344477

Jennifer,

Please run sample AOC1-22@12.0-12.5 for naphthalene and 2-methylnaphthalene.

Andy Basehoar, PG, LSRP
Senior Project Manager
TTI ENVIRONMENTAL, INC.
Regional Office: Morgantown, PA
Mobile: 610-334-4414

Corporate Headquarters: Moorestown, NJ 08057 p 856-840-8800 | f 856-840-8815 |ttienv.com l

Providing Environmental Solutions since 1985

Time estimate: oh **Time spent:** oh

Members

JJH Jennifer Huckaba (responsible)

DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name: Pace Analytical National ***Client:*** TTI Environmental, Inc.

Project Location: Camden, NJ ***Project Number:*** 20-763

Laboratory Sample ID(s): L1347318-01 ***Sampling Date(s):*** 04/26/21

List DKQP Methods Used (e.g., 8260, 8270, et cetera) 8270E

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	X Yes ☐ No
1A	Were the method specified handling, preservation, and holding time requirements met?	X Yes ☐ No
1B	*EPH Method*: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	☐ Yes ☐ No X N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	X Yes ☐ No
3	Were samples received at an appropriate temperature (4±2° C)?	X Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	X Yes ☐ No
5	a) Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b) Were these reporting limits met?	X Yes ☐ No X Yes ☐ No ☐ NA
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	X Yes ☐ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	☐ Yes X No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Data of Known Quality."

ANALYTICAL REPORT

June 03, 2021

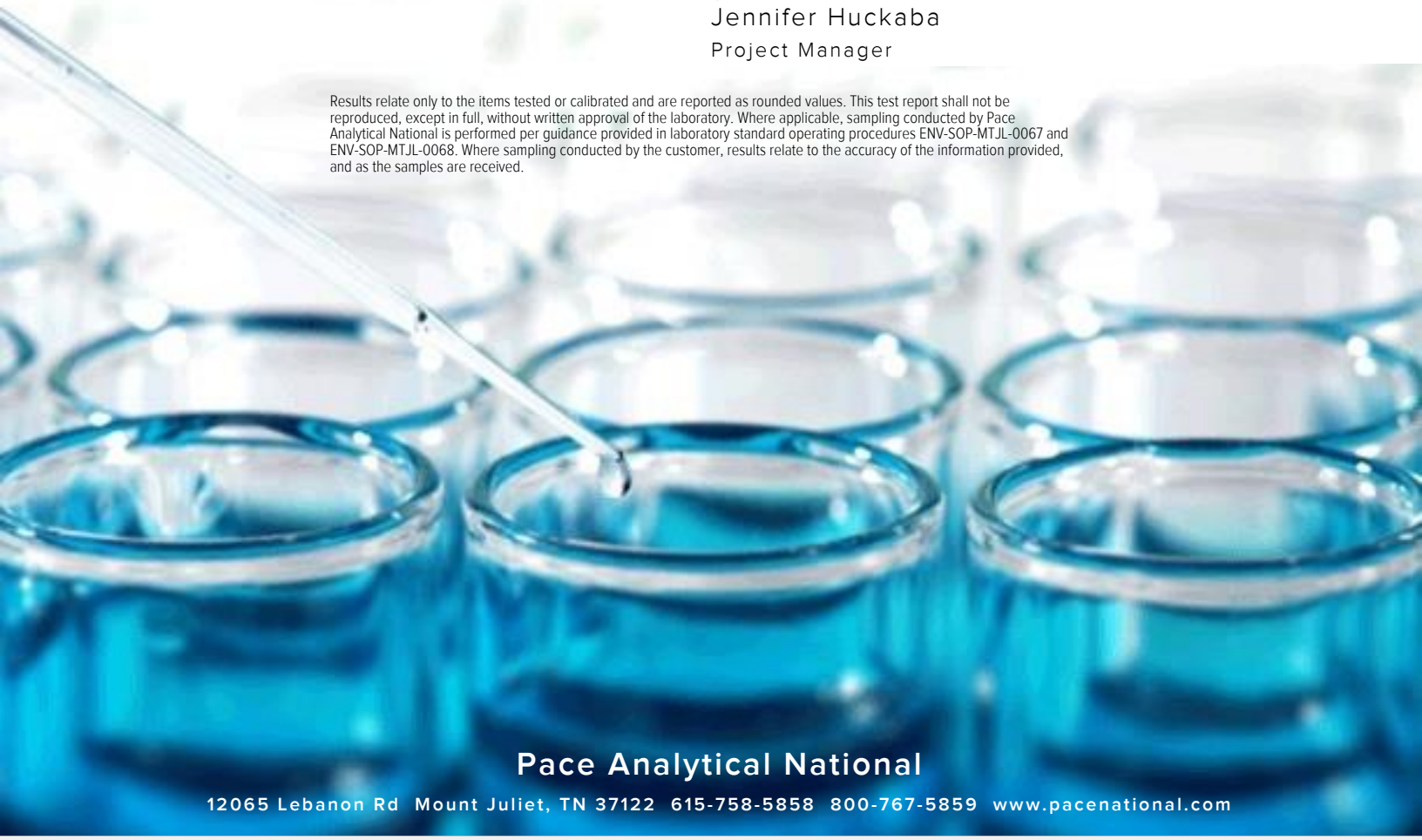
TTI Environmental, Inc. - NJ

Sample Delivery Group:	L1354801
Samples Received:	04/30/2021
Project Number:	20-763
Description:	CRA Reliable Tire
Site:	NJ
Report To:	Mr. Andy Basehoar 1253 North Church Street Moorestown, NJ 08057

Entire Report Reviewed By:

Jennifer Huckaba

Project Manager



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

TP 1 @ 4-4.5 L1354801-01 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 08:50 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664019	1	05/04/21 13:43	05/04/21 14:01	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 16:43	JN	Mt. Juliet, TN

TP 2 @ 2-75-3.25 L1354801-02 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 09:40 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664019	1	05/04/21 13:43	05/04/21 14:01	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 14:04	JN	Mt. Juliet, TN

TP 3 @ 3.5-4 L1354801-03 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 10:20 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664019	1	05/04/21 13:43	05/04/21 14:01	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 14:17	JN	Mt. Juliet, TN

TP 4 @ 0.5-1 L1354801-04 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 10:40 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664019	1	05/04/21 13:43	05/04/21 14:01	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	6.02	05/27/21 10:25	06/02/21 12:23	CAG	Mt. Juliet, TN

TP 5 @ 1.5-2 L1354801-05 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 11:00 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664019	1	05/04/21 13:43	05/04/21 14:01	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 17:09	JN	Mt. Juliet, TN

TP 6 @ 3-3.5 L1354801-06 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 11:30 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664019	1	05/04/21 13:43	05/04/21 14:01	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 17:23	JN	Mt. Juliet, TN

TP 7 @ 2.5-3 L1354801-07 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 12:15 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664019	1	05/04/21 13:43	05/04/21 14:01	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 17:49	JN	Mt. Juliet, TN

TP 8 @ 2-2.5 L1354801-08 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 12:55 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664019	1	05/04/21 13:43	05/04/21 14:01	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 17:36	JN	Mt. Juliet, TN

TP 9 @ 5-5.5 L1354801-09 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 14:00 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664019	1	05/04/21 13:43	05/04/21 14:01	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 15:10	JN	Mt. Juliet, TN

TP 10 @ 4-4.5 L1354801-10 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 14:40 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664020	1	05/04/21 13:27	05/04/21 13:40	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 15:24	JN	Mt. Juliet, TN

TP 11 @ 1.5-2 L1354801-11 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 15:15 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664020	1	05/04/21 13:27	05/04/21 13:40	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 15:37	JN	Mt. Juliet, TN

TP 12 @ 0.5-1 L1354801-12 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 15:35 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664020	1	05/04/21 13:27	05/04/21 13:40	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	3	05/27/21 10:25	05/29/21 18:02	JN	Mt. Juliet, TN

TP - BD-1 L1354801-13 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 12:00 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664020	1	05/04/21 13:27	05/04/21 13:40	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	3	05/27/21 10:25	05/29/21 18:16	JN	Mt. Juliet, TN

TP - BD-2 L1354801-14 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 13:00 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664020	1	05/04/21 13:27	05/04/21 13:40	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 15:50	JN	Mt. Juliet, TN

AOC 8-9 @ 13.0-13.5 L1354801-15 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 09:23 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1666770	1	05/08/21 09:21	05/08/21 09:27	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 14:31	JN	Mt. Juliet, TN

AOC 8-10 @ 13.0-13.5 L1354801-16 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 09:30 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1666770	1	05/08/21 09:21	05/08/21 09:27	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 14:44	JN	Mt. Juliet, TN

AOC 2-1 @ 1.0-1.5 L1354801-17 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 10:13 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664024	1	05/04/21 14:54	05/04/21 15:05	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 14:57	JN	Mt. Juliet, TN

AOC 2-2 @ 11.5-12.0 L1354801-18 Solid

Collected by: Alec Halbruner | Collected date/time: 04/28/21 10:24 | Received date/time: 04/30/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1664024	1	05/04/21 14:54	05/04/21 15:05	JAV	Mt. Juliet, TN
TPH by Method NJDEP EPH	WG1675795	1	05/27/21 10:25	05/29/21 16:03	JN	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jennifer Huckaba
Project Manager

Sample Delivery Group (SDG) Narrative

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch	Method	Lab Sample ID
WG1675795	NJDEP EPH	L1354801-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.7		1	05/04/2021 14:01	WG1664019

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	65.8	T8	8.28	23.3	1	05/29/2021 16:43	WG1675795
(S) o-Terphenyl	*85.0*		*6.67*	*40.0-140*		*05/29/2021 16:43*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.5		1	05/04/2021 14:01	WG1664019

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	U	T8	7.67	21.6	1	05/29/2021 14:04	WG1675795
(S) o-Terphenyl	*90.0*		*6.67*	*40.0-140*		*05/29/2021 14:04*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.5		1	05/04/2021 14:01	WG1664019

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	8.02	J T8	7.67	21.6	1	05/29/2021 14:17	WG1675795
(S) o-Terphenyl	*89.8*		*6.67*	*40.0-140*		*05/29/2021 14:17*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.0		1	05/04/2021 14:01	WG1664019

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	259	T8	45.0	126	6.02	06/02/2021 12:23	WG1675795
(S) o-Terphenyl	*113*		*40.0*	*40.0-140*		*06/02/2021 12:23*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.0		1	05/04/2021 14:01	WG1664019

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	120	T8	8.98	25.3	1	05/29/2021 17:09	WG1675795
(S) o-Terphenyl	*88.3*		*6.67*	*40.0-140*		*05/29/2021 17:09*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.7		1	05/04/2021 14:01	WG1664019

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	90.7	T8	8.80	24.8	1	05/29/2021 17:23	WG1675795
(S) o-Terphenyl	*83.9*		*6.67*	*40.0-140*		*05/29/2021 17:23*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.3		1	05/04/2021 14:01	WG1664019

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	59.4	T8	7.45	21.0	1	05/29/2021 17:49	WG1675795
(S) o-Terphenyl	*86.0*		*6.67*	*40.0-140*		*05/29/2021 17:49*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.1		1	05/04/2021 14:01	WG1664019

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	54.9	T8	7.79	21.9	1	05/29/2021 17:36	WG1675795
(S) o-Terphenyl	*82.1*		*6.67*	*40.0-140*		*05/29/2021 17:36*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.8		1	05/04/2021 14:01	WG1664019

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	U	T8	8.68	24.5	1	05/29/2021 15:10	WG1675795
(S) o-Terphenyl	*84.4*		*6.67*	*40.0-140*		*05/29/2021 15:10*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.4		1	05/04/2021 13:40	WG1664020

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	10.1	J T8	8.31	23.4	1	05/29/2021 15:24	WG1675795
(S) o-Terphenyl	*88.5*		*6.67*	*40.0-140*		*05/29/2021 15:24*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.7		1	05/04/2021 13:40	WG1664020

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	60.8	T8	8.91	25.1	1	05/29/2021 15:37	WG1675795
(S) o-Terphenyl	*86.6*		*6.67*	*40.0-140*		*05/29/2021 15:37*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.5		1	05/04/2021 13:40	WG1664020

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	154	T8	24.1	67.8	3	05/29/2021 18:02	WG1675795
(S) o-Terphenyl	*102*		*20.0*	*40.0-140*		*05/29/2021 18:02*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.7		1	05/04/2021 13:40	WG1664020

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	169	T8	23.0	64.7	3	05/29/2021 18:16	WG1675795
(S) o-Terphenyl	*106*		*20.0*	*40.0-140*		*05/29/2021 18:16*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.5		1	05/04/2021 13:40	WG1664020

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	U	T8	8.71	24.5	1	05/29/2021 15:50	WG1675795
(S) o-Terphenyl	*89.9*		*6.67*	*40.0-140*		*05/29/2021 15:50*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	05/08/2021 09:27	WG1666770

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	U	T8	7.33	20.7	1	05/29/2021 14:31	WG1675795
(S) o-Terphenyl	*81.7*		*6.67*	*40.0-140*		*05/29/2021 14:31*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.0		1	05/08/2021 09:27	WG1666770

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	U	T8	7.39	20.8	1	05/29/2021 14:44	WG1675795
(S) o-Terphenyl	*91.7*		*6.67*	*40.0-140*		*05/29/2021 14:44*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.7		1	05/04/2021 15:05	WG1664024

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	U	T8	8.10	22.8	1	05/29/2021 14:57	WG1675795
(S) o-Terphenyl	*93.9*		*6.67*	*40.0-140*		*05/29/2021 14:57*	WG1675795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.5		1	05/04/2021 15:05	WG1664024

TPH by Method NJDEP EPH

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
EPH Screen	U	T8	8.30	23.4	1	05/29/2021 16:03	WG1675795
(S) o-Terphenyl	*98.9*		*6.67*	*40.0-140*		*05/29/2021 16:03*	WG1675795

Method Blank (MB)

(MB) R3650541-1 05/04/21 14:01

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

L1346268-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1346268-05 05/04/21 14:01 • (DUP) R3650541-3 05/04/21 14:01

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	79.0	78.4	1	0.822		10

Laboratory Control Sample (LCS)

(LCS) R3650541-2 05/04/21 14:01

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3650536-1 05/04/21 13:40

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

L1346268-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1346268-17 05/04/21 13:40 • (DUP) R3650536-3 05/04/21 13:40

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.3	95.9	1	0.341		10

Laboratory Control Sample (LCS)

(LCS) R3650536-2 05/04/21 13:40

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3650561-1 05/04/21 15:05

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1346283-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1346283-01 05/04/21 15:05 • (DUP) R3650561-3 05/04/21 15:05

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	99.9	99.9	1	0.00420		10

Laboratory Control Sample (LCS)

(LCS) R3650561-2 05/04/21 15:05

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3652174-1 05/08/21 09:27

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

L1349734-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349734-01 05/08/21 09:27 • (DUP) R3652174-3 05/08/21 09:27

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	78.2	80.6	1	2.98		10

Laboratory Control Sample (LCS)

(LCS) R3652174-2 05/08/21 09:27

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3660981-1 05/29/21 12:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
EPH Screen	U		7.10	20.0
(S) o-Terphenyl	*76.5*			*40.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3660981-2 05/29/21 12:57 • (LCSD) R3660981-3 05/29/21 13:10

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 %
EPH Screen	206	201	197	97.6	95.6	40.0-140			2.01	50
(S) o-Terphenyl				*104*	*83.8*	*40.0-140*				

L1354801-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1354801-18 05/29/21 16:03 • (MS) R3660981-4 05/29/21 16:17 • (MSD) R3660981-5 05/29/21 16:30

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 %
EPH Screen	237	U	231	230	97.5	97.0	1	40.0-140			0.506	50
(S) o-Terphenyl					*96.2*	*97.9*		*40.0-140*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
T8	Sample(s) received past/too close to holding time expiration.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
TTI Environmental, Inc. - NJ

1253 North Church Street
Moorestown, NJ 08057

Billing Information:
Attn: Accounts Payable
1253 N Church St
Moorestown, NJ 08057

Pres Chk

Report to:
Mr. Andy Basehoar

Email To: andyb@ttienv.com

Project Description:
CRA Reliable Tire

City/State Collected: Camden, NJ

Please Circle: PT MT CT (ET)

Phone: 856-840-8800

Client Project #
20-763

Lab Project #
TTIENVMNJ-CRARELIABL

Collected by (print):
Alec Halbower

Site/Facility ID #
NJ

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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	CN,SV8081/8082NJ,TS 4ozClr-NoPres	M6010TAL METALS 2ozClr-NoPres	SV8082NJ, TS 4ozClr-NoPres	SV8270PAHDNJTIC * 4ozAmb-NoPres	SV8270PAHDNJTIC,TS 4ozAmb-NoPres	SV8270TCLDNJTIC 4ozAmb-NoPres Cat. B NJ EPH	TS 4ozClr-NoPres	V8260TCLNJTIC 40ml/NaHSO4/Syr/MeOH			Remarks	Sample # (lab only)
TP1@4-4.5	G	SS	4-4.5	4/28/21	850	6	X	X				X		X				-01 -01
TP2@2.75-3.25		SS	2.75-3.25		940	6	X	X				X		X				-02 02
TP3@3.5-4		SS	3.5-4		1020	6	X	X				X		X				-03 03
TP4@0.5-1		SS	0.5-1		1040	6	X	X				X		X				-04 04
TP5@1.5-2		SS	1.5-2		1100	6	X	X				X		X				-05 05
TP6@3-3.5		SS	3-3.5		1130	6	X	X				X		X				-06 06
TP7@2.5-3		SS	2.5-3		1215	6	X	X				X		X				-07 07
TP8@2-2.5		SS	2-2.5		1255	6	X	X				X		X				-08 08
TP9@5-5.5		SS	5-5.5		1400	6	X	X				X		X				-09 09
TP10@4-4.5	V	SS	4-4.5	V	1440	6	X	X				X		X				-10 10

Chain of Custody Page 1 of 4

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SDG # L1346268 NV 5/19/21
C013
L1354801
Acctnum: TTIENVMNJ
Template: T186156
Prelogin: P842448
PM: 3513 - Jennifer Huckaba
PB: TB 4-22-21
Shipped Via: FedEX Standard

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

Remarks: For SV8270PAHDNJTIC*, list is only Nap & 2-Methylnap. Use TTIENVMNJ-CRA-NAP2MN project for those samples.

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	If preservation required by Login: Date/Time
	4/29/21	1020		3	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.8°C +0.7°C Bottles Received: 24 3	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-30-21 Time: 1200	Hold: Condition: NCF / OK

Company Name/Address:
TTI Environmental, Inc. - NJ
1253 North Church Street
Moorestown, NJ 08057

Billing Information:
Attn: Accounts Payable
1253 N Church St
Moorestown, NJ 08057

Pres Chk

Report to: Mr. Andy Basehoar
Email To: andyb@ttienv.com

Project Description: CRA Reliable Tire
City/State Collected: Camden, NJ
Please Circle: PT MT CT ET

Phone: 856-840-8800
Client Project # 20-763
Lab Project # TTIENVMNJ-CRARELIABL

Collected by (print): Alec Halbrook
Site/Facility ID # NJ
P.O. #

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

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

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CN,SV8081/8082NJ,TS 4ozClr-NoPres	M6010TAL METALS 2ozClr-NoPres	SV8082NJ, TS 4ozClr-NoPres	SV8270PAHDNJTIC * 4ozAmb-NoPres	SV8270PAHDNJTIC,TS 4ozAmb-NoPres	SV8270TCLDNJTIC 4ozAmb-NoPres Cont. 2 *at EPH	TS 4ozClr-NoPres	V8260TCLNJTIC 40ml/NaHSO4/Syr/MeOH			Remarks	Sample # (lab only)
TP 11@1.5-2	G	SS	1.5-2	4/28/21	1515	1G	X	X	X			X		X				~~11~~ -11
TP 12@0.5-1		SS	0.5-1		1535	1G	X	X	X			X		X				~~12~~ -12
TP-BD-1		SS	—		1200	1G	X	X				X		X				~~13~~ -13
TP-BD-2		SS	—		1300	1G	X	X				X		X				~~14~~ -14
		SS				1		X										
		SS				1		X										
		SS				1		X										
		SS				1		X										
		SS				1		X										
		SS				1		X										

Chain of Custody Page 2 of 4

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SDG # ~~L1316268~~
Table # L135V801
Acctnum: TTIENVMNJ
Template: T186156
Prelogin: P842448
PM: 3513 - Jennifer Huckaba
PB: TB 4-22-21
Shipped Via: FedEX Standard

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

Remarks: For SV8270PAHDNJTIC*, list is only Nap & 2-Methylnap. Use TTIENVMNJ-CRA-NAP2MN project for those samples.

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

	Date	Time		
Relinquished by: (Signature)	4/29/21	1080	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.8 -1 °C = 0.7 °C Bottles Received: 243
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-30-21 Time: 1200

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
TTI Environmental, Inc. - NJ
1253 North Church Street
Moorestown, NJ 08057

Billing Information:
Attn: Accounts Payable
1253 N Church St
Moorestown, NJ 08057

Pres Chk

Report to: Mr. Andy Basehoar

Email To: andyb@ttienv.com

Project Description: CRA Reliable Tire

City/State Collected: Camden, NJ

Please Circle: PT MT CT (ET)

Phone: 856-840-8800

Client Project # 20-763

Lab Project # TTIENVMNJ-CRA-NAP2MN

Collected by (print): Alec Halbrook

Site/Facility ID # NJ

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Analysis / Container / Preservative

Chain of Custody Page 3 of 4

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SDG # L1346268

Table # L1345801

Acctnum: TTIENVMNJ

Template: T186156

Prelogin: P842448

PM: 3513 - Jennifer Huckaba

PB: TB 4-22-21

Shipped Via: FedEx Standard

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CN,SV8081/8082NJ,TS 4ozClr-NoPres	EPH Cat 2 Full TCL/TAL +M6010TAL METALS 2ozClr-NoPres	SV8082NJ, TS 4ozClr-NoPres	SV8270PAHDNJTIC* 4ozAmb-NoPres	SV8270PAHDNJTIC,TS 4ozAmb-NoPres	SV8270TCLDNJTIC 4ozAmb-NoPres	TS 4ozClr-NoPres	V8260TCLNJTIC 40ml/NaHSO4/Syr/MeOH	VOCs, PAHs, TAL Metals	PAHs, TAL Metals	Remarks	Sample # (lab only)
AOC 8-9 @ 13.0-13.5	Grab	SS	13-13.5	4/28/21	0923	6	X	X		X					X			-15
AOC8-10 @ 13.0-13.5		SS	13-13.5		0930	6	X	X		X					X			-16
AOC10-3 @ 12.5-13.0		SS	12.5-13		0945	5				X					X			-17
AOC10-4 @ 12.0-12.5		SS	12-12.5		0955	6				X					X			-18
AOC10-5 @ 11.0-11.5		SS	11-11.5		1003	6				X					X			-19
AOC10-6 @ 11.5-12.0		SS	11.5-12		1033	6				X					X			-20
AOC10-7 @ 12.0-12.5		SS	12-12.5		1045	6				X					X			-21
AOC 9-1 @ 0.0-0.5		SS	0-0.5		1110	12				X						X		-22

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

Remarks: For SV8270PAHDNJTIC*, list is only Nap & 2-Methylnap. Use TTIENVMNJ-CRA-NAP2MN project for those samples.

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)
	4/29/21	1020	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Daniel PNa

Trip Blank Received: (Yes) / No
HCl / MeoH
TBR

Temp: 0.8-1=0.7 °C Bottles Received: 243

Date: 4-30-21 Time: 1200

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Company Name/Address:
TTI Environmental, Inc. - NJ

1253 North Church Street
Moorestown, NJ 08057

Billing Information:
Attn: Accounts Payable
1253 N Church St
Moorestown, NJ 08057

Pres Chk

Report to: Mr. Andy Basehoar

Email To: andyb@ttienv.com

Project Description: CRA Reliable Tire

City/State Collected: Camden, NJ

Please Circle: PT MT CT ET

Phone: 856-840-8800

Client Project # 20-763

Lab Project # TTIENVMNJ-CRARELIABL

Collected by (print): Alec Halbauer

Site/Facility ID # NJ

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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	CN,SV8081,8082NJ,TS 4ozClr-NoPres VOCs	Full TCL ITAL METALS 2ozClr-NoPres	SV8082NJ, TS 4ozClr-NoPres	SV8270PAHDNJTIC * 4ozAmb-NoPres	SV8270PAHDNJTIC,TS 4ozAmb-NoPres	SV8270TCLDNJTIC 4ozAmb-NoPres	TS 4ozClr-NoPres	V8260TCLNJTIC 40ml/NaHSO4/Syr/MeOH	EPH Cat. 2			
AOC 2-1@ 1.0-1.5	Grab	SS	1-1.5	4/28/21	1013	16		X					X	X	X			-17
AOC 2-2@ 11.5-12.0		SS	11.5-12		1024	16		X					X	X	X			-18
TW-1		~~SS~~ GW	-		1155	15		X					X	X				-25
TW-2		~~SS~~ GW	-		1340	15		X					X	X				-26
TW-3		~~SS~~ GW	-		1435	15		X					X	X				-27
TW-4		~~SS~~ GW	-		1540	15		X					X	X				-28
BD-TW		~~SS~~ GW	-		-	15		X					X	X				-29
FB42821		~~SS~~ GW	-		1625	15		X					X	X				-30
EB42821		~~SS~~ GW	-		1645	15		X					X	X				-31
TB42821		~~SS~~ GW	-		1705	13	X						X	X				-32

Chain of Custody Page 4 of 4

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SDG # L1346268

Table # L1354801

Acctnum: TTIENVMNJ

Template: T186156

Prelogin: P842448

PM: 3513 - Jennifer Huckaba

PB: TB 4-22-21

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: For SV8270PAHDNJTIC*, list is only Nap & 2-Methylnap. Use TTIENVMNJ-CRA-NAP2MN project for those samples. TD

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	If preservation required by Login: Date/Time
	4/29/21	1020		3	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.8 -1 -0.7 °C Bottles Received: 23	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-30-21 Time: 1200	Hold: Condition: NCF / OK

L1346268 - TTIENVMNJ - log SVEPHSNJ to new SDG

R5

The EPHs were missed and now past holding time. Please go ahead and relog them onto a new SDG and run anyway.
Samples L1346268-01 thru -16 and -23 thru -24. SVEPHSNJ & transfer TS

Thank you.

Jennifer Huckaba
Project Manager
615.773.7946
Cell Phone: 615-881-3341

Time estimate: oh **Time spent:** oh

Members

JJH Jennifer Huckaba (responsible)

DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name: Pace Analytical National ***Client:*** TTI Environmental, Inc.

Project Location: Camden, NJ ***Project Number:*** 20-763

Laboratory Sample ID(s): L1354801-01 thru-18 ***Sampling Date(s):*** 04/28/21

List DKQP Methods Used (e.g., 8260, 8270, et cetera) NJEPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	X Yes □ No
1A	Were the method specified handling, preservation, and holding time requirements met?	□ Yes X No
1B	*EPH Method*: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	X Yes □ No □ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	X Yes □ No
3	Were samples received at an appropriate temperature (4±2° C)?	X Yes □ No □ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	□ Yes X No
5	a) Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b) Were these reporting limits met?	□ Yes □ No □ Yes □ No X NA
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	X Yes □ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	X Yes □ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Data of Known Quality."

ANALYTICAL REPORT

June 10, 2021

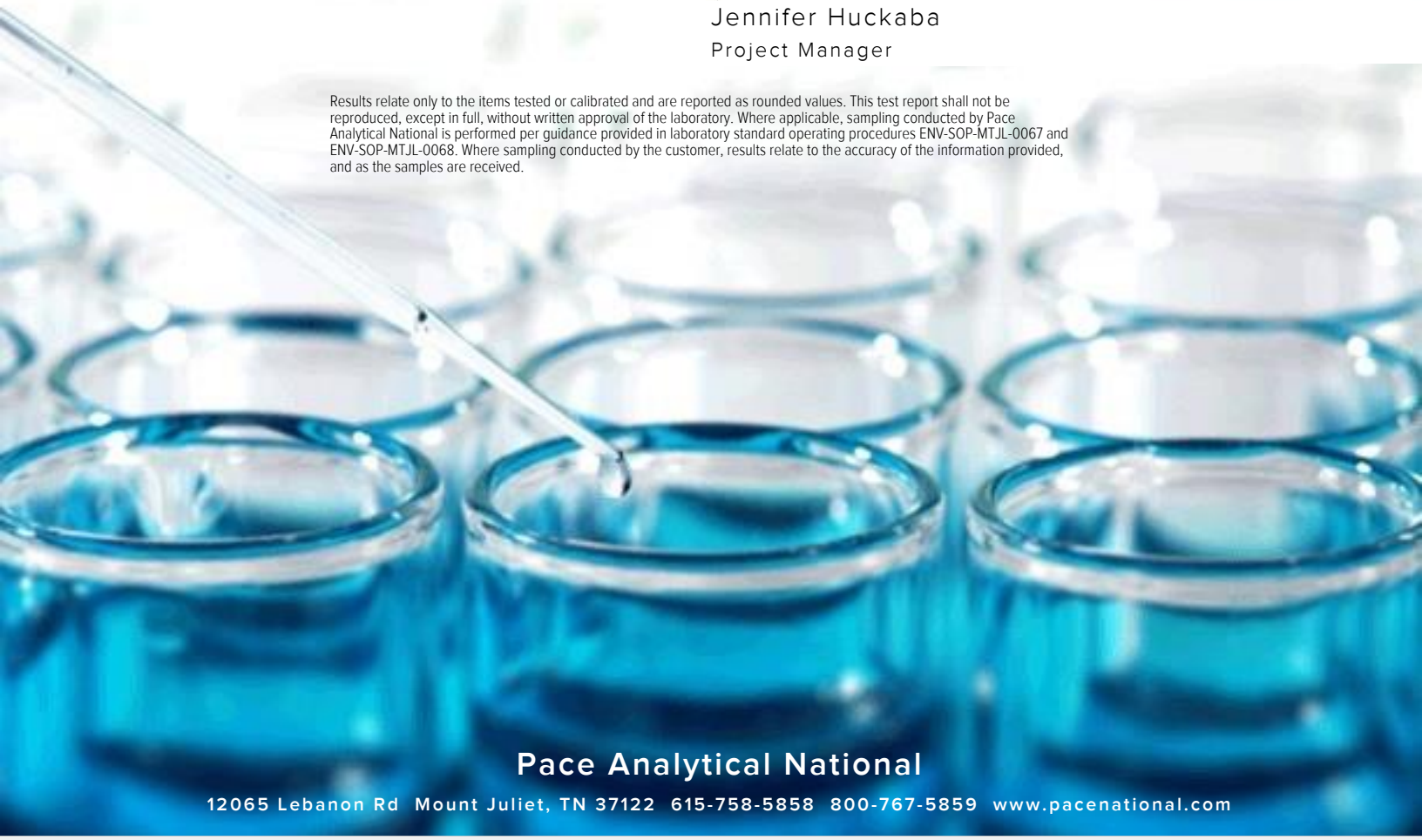
TTI Environmental, Inc. - NJ

Sample Delivery Group:	L1360173
Samples Received:	04/27/2021
Project Number:	20-763
Description:	CRA Reliable Tire
Site:	NJ
Report To:	Mr. Andy Basehoar 1253 North Church Street Moorestown, NJ 08057

Entire Report Reviewed By:

Jennifer Huckaba

Project Manager



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SAMPLE SUMMARY

AOC1-2 @ 12.0-12.5 L1360173-01 Solid

Collected by: Alec Halbruner
Collected date/time: 04/26/21 09:30
Received date/time: 04/27/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661983	1	05/01/21 20:46	05/01/21 21:11	JAV	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG1682915	1	06/06/21 09:31	06/07/21 03:42	AAT	Mt. Juliet, TN

AOC1-22 @ 12.0-12.5 L1360173-02 Solid

Collected by: Alec Halbruner
Collected date/time: 04/26/21 13:15
Received date/time: 04/27/21 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1661986	1	05/01/21 20:20	05/01/21 20:29	JAV	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG1682915	1.03	06/06/21 09:31	06/07/21 04:03	AAT	Mt. Juliet, TN

AOC6-4 @ 11.5-12.0 L1360173-03 Solid

Collected by: Alec Halbruner
Collected date/time: 04/27/21 10:02
Received date/time: 04/28/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1663189	1	05/04/21 10:24	05/04/21 10:34	JAV	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG1682915	1.02	06/06/21 09:31	06/07/21 02:20	AAT	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jennifer Huckaba
Project Manager

Sample Delivery Group (SDG) Narrative

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch	Method	Lab Sample ID
WG1682915	8270E	L1360173-01, 02, 03

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.6		1	05/01/2021 21:11	WG1661983

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U	T8	0.00677	0.0380	1	06/07/2021 03:42	WG1682915
Acenaphthene	U	T8	0.00615	0.0380	1	06/07/2021 03:42	WG1682915
Acenaphthylene	U	T8	0.00535	0.0380	1	06/07/2021 03:42	WG1682915
Benzo(a)anthracene	U	T8	0.00670	0.0380	1	06/07/2021 03:42	WG1682915
Benzo(a)pyrene	U	T8	0.00706	0.0380	1	06/07/2021 03:42	WG1682915
Benzo(b)fluoranthene	U	T8	0.00709	0.0380	1	06/07/2021 03:42	WG1682915
Benzo(g,h,i)perylene	U	T8	0.00695	0.0380	1	06/07/2021 03:42	WG1682915
Benzo(k)fluoranthene	U	T8	0.00676	0.0380	1	06/07/2021 03:42	WG1682915
Chrysene	U	T8	0.00755	0.0380	1	06/07/2021 03:42	WG1682915
Dibenz(a,h)anthracene	U	T8	0.0105	0.0380	1	06/07/2021 03:42	WG1682915
Fluoranthene	U	T8	0.00686	0.0380	1	06/07/2021 03:42	WG1682915
Fluorene	U	T8	0.00619	0.0380	1	06/07/2021 03:42	WG1682915
Indeno(1,2,3-cd)pyrene	U	T8	0.0107	0.0380	1	06/07/2021 03:42	WG1682915
Naphthalene	U	T8	0.00954	0.0380	1	06/07/2021 03:42	WG1682915
Phenanthrene	U	T8	0.00754	0.0380	1	06/07/2021 03:42	WG1682915
Pyrene	U	T8	0.00739	0.0380	1	06/07/2021 03:42	WG1682915
(S) Nitrobenzene-d5	*91.5*			*31.0-146*		*06/07/2021 03:42*	WG1682915
(S) 2-Fluorobiphenyl	*84.0*			*31.0-130*		*06/07/2021 03:42*	WG1682915
(S) p-Terphenyl-d14	*95.0*			*20.0-127*		*06/07/2021 03:42*	WG1682915

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	CAS #	RT
	mg/kg		mg/kg	mg/kg		date / time			
Total Tic	0.000		0.000	0.000	1	06/07/2021 03:42	WG1682915		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	05/01/2021 20:29	WG1661986

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U	T8	0.00639	0.0359	1.03	06/07/2021 04:03	WG1682915
Acenaphthene	U	T8	0.00580	0.0359	1.03	06/07/2021 04:03	WG1682915
Acenaphthylene	U	T8	0.00505	0.0359	1.03	06/07/2021 04:03	WG1682915
Benzo(a)anthracene	U	T8	0.00633	0.0359	1.03	06/07/2021 04:03	WG1682915
Benzo(a)pyrene	U	T8	0.00667	0.0359	1.03	06/07/2021 04:03	WG1682915
Benzo(b)fluoranthene	U	T8	0.00669	0.0359	1.03	06/07/2021 04:03	WG1682915
Benzo(g,h,i)perylene	U	T8	0.00656	0.0359	1.03	06/07/2021 04:03	WG1682915
Benzo(k)fluoranthene	U	T8	0.00638	0.0359	1.03	06/07/2021 04:03	WG1682915
Chrysene	U	T8	0.00713	0.0359	1.03	06/07/2021 04:03	WG1682915
Dibenz(a,h)anthracene	U	T8	0.00995	0.0359	1.03	06/07/2021 04:03	WG1682915
Fluoranthene	U	T8	0.00647	0.0359	1.03	06/07/2021 04:03	WG1682915
Fluorene	U	T8	0.00584	0.0359	1.03	06/07/2021 04:03	WG1682915
Indeno(1,2,3-cd)pyrene	U	T8	0.0101	0.0359	1.03	06/07/2021 04:03	WG1682915
Naphthalene	U	T8	0.00900	0.0359	1.03	06/07/2021 04:03	WG1682915
Phenanthrene	U	T8	0.00712	0.0359	1.03	06/07/2021 04:03	WG1682915
Pyrene	U	T8	0.00698	0.0359	1.03	06/07/2021 04:03	WG1682915
(S) Nitrobenzene-d5	*96.4*			*31.0-146*		*06/07/2021 04:03*	WG1682915
(S) 2-Fluorobiphenyl	*78.5*			*31.0-130*		*06/07/2021 04:03*	WG1682915
(S) p-Terphenyl-d14	*95.1*			*20.0-127*		*06/07/2021 04:03*	WG1682915

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	CAS #	RT
	mg/kg		mg/kg	mg/kg		date / time			
Total Tic	0.000		0.000	0.000	1.03	06/07/2021 04:03	WG1682915		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.0		1	05/04/2021 10:34	WG1663189

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.0895	T8	0.00712	0.0400	1.02	06/07/2021 02:20	WG1682915
Acenaphthene	0.0913	T8	0.00647	0.0400	1.02	06/07/2021 02:20	WG1682915
Acenaphthylene	U	T8	0.00562	0.0400	1.02	06/07/2021 02:20	WG1682915
Benzo(a)anthracene	0.0968	T8	0.00705	0.0400	1.02	06/07/2021 02:20	WG1682915
Benzo(a)pyrene	0.0651	T8	0.00742	0.0400	1.02	06/07/2021 02:20	WG1682915
Benzo(b)fluoranthene	0.0835	T8	0.00745	0.0400	1.02	06/07/2021 02:20	WG1682915
Benzo(g,h,i)perylene	0.0318	J T8	0.00731	0.0400	1.02	06/07/2021 02:20	WG1682915
Benzo(k)fluoranthene	0.0253	J T8	0.00711	0.0400	1.02	06/07/2021 02:20	WG1682915
Chrysene	0.109	T8	0.00794	0.0400	1.02	06/07/2021 02:20	WG1682915
Dibenz(a,h)anthracene	U	T8	0.0111	0.0400	1.02	06/07/2021 02:20	WG1682915
Fluoranthene	0.195	T8	0.00721	0.0400	1.02	06/07/2021 02:20	WG1682915
Fluorene	0.0551	T8	0.00651	0.0400	1.02	06/07/2021 02:20	WG1682915
Indeno(1,2,3-cd)pyrene	0.0372	J T8	0.0113	0.0400	1.02	06/07/2021 02:20	WG1682915
Naphthalene	U	T8	0.0100	0.0400	1.02	06/07/2021 02:20	WG1682915
Phenanthrene	0.376	T8	0.00793	0.0400	1.02	06/07/2021 02:20	WG1682915
Pyrene	0.254	T8	0.00778	0.0400	1.02	06/07/2021 02:20	WG1682915
(S) Nitrobenzene-d5	*89.4*			*31.0-146*		*06/07/2021 02:20*	WG1682915
(S) 2-Fluorobiphenyl	*82.7*			*31.0-130*		*06/07/2021 02:20*	WG1682915
(S) p-Terphenyl-d14	*93.6*			*20.0-127*		*06/07/2021 02:20*	WG1682915

Semi Volatile Organic Compounds (GC/MS) by Method 8270E - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	CAS #	RT
	mg/kg		mg/kg	mg/kg		date / time			
Total Tic	0.000		0.000	0.000	1.02	06/07/2021 02:20	WG1682915		

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Method Blank (MB)

(MB) R3649357-1 05/01/21 21:11

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

L1344477-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1344477-07 05/01/21 21:11 • (DUP) R3649357-3 05/01/21 21:11

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	97.5	97.6	1	0.127		10

Laboratory Control Sample (LCS)

(LCS) R3649357-2 05/01/21 21:11

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.1	100	85.0-115	

Method Blank (MB)

(MB) R3649353-1 05/01/21 20:29

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1344477-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1344477-24 05/01/21 20:29 • (DUP) R3649353-3 05/01/21 20:29

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.0	93.7	1	0.395		10

Laboratory Control Sample (LCS)

(LCS) R3649353-2 05/01/21 20:29

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3650371-1 05/04/21 10:34

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

L1345179-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1345179-12 05/04/21 10:34 • (DUP) R3650371-3 05/04/21 10:34

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	95.5	95.9	1	0.427		10

Laboratory Control Sample (LCS)

(LCS) R3650371-2 05/04/21 10:34

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3663896-1 06/06/21 21:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00593	0.0333
Acenaphthene	U		0.00539	0.0333
Acenaphthylene	U		0.00469	0.0333
Benzo(a)anthracene	U		0.00587	0.0333
Benzo(a)pyrene	U		0.00619	0.0333
Benzo(b)fluoranthene	U		0.00621	0.0333
Benzo(g,h,i)perylene	U		0.00609	0.0333
Benzo(k)fluoranthene	U		0.00592	0.0333
Chrysene	U		0.00662	0.0333
Dibenz(a,h)anthracene	U		0.00923	0.0333
Fluoranthene	U		0.00601	0.0333
Fluorene	U		0.00542	0.0333
Indeno(1,2,3-cd)pyrene	U		0.00941	0.0333
Naphthalene	U		0.00836	0.0333
Phenanthrene	U		0.00661	0.0333
Pyrene	U		0.00648	0.0333
(S) Nitrobenzene-d5	*83.0*			*31.0-146*
(S) 2-Fluorobiphenyl	*84.4*			*31.0-130*
(S) p-Terphenyl-d14	*100*			*20.0-127*

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

(MB) R3663896-1 06/06/21 21:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	CAS #

Number of TICs found: 0

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3663896-2 06/06/21 21:55 • (LCSD) R3663896-3 06/06/21 22:15

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 %
Acenaphthene	0.400	0.342	0.383	85.5	95.8	70.0-130			11.3	30
Acenaphthylene	0.400	0.350	0.376	87.5	94.0	70.0-130			7.16	30
Anthracene	0.400	0.357	0.332	89.3	83.0	70.0-130			7.26	30
Benzo(a)anthracene	0.400	0.337	0.344	84.3	86.0	70.0-130			2.06	30
Benzo(b)fluoranthene	0.400	0.322	0.334	80.5	83.5	70.0-130			3.66	30

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3663896-2 06/06/21 21:55 • (LCSD) R3663896-3 06/06/21 22:15

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 %
Benzo(k)fluoranthene	0.400	0.311	0.330	77.8	82.5	70.0-130			5.93	30
Benzo(g,h,i)perylene	0.400	0.299	0.316	74.8	79.0	70.0-130			5.53	30
Benzo(a)pyrene	0.400	0.305	0.326	76.3	81.5	70.0-130			6.66	30
Chrysene	0.400	0.336	0.338	84.0	84.5	70.0-130			0.593	30
Dibenz(a,h)anthracene	0.400	0.323	0.330	80.7	82.5	70.0-130			2.14	30
Fluoranthene	0.400	0.344	0.349	86.0	87.3	70.0-130			1.44	30
Fluorene	0.400	0.347	0.368	86.8	92.0	70.0-130			5.87	30
Indeno(1,2,3-cd)pyrene	0.400	0.306	0.332	76.5	83.0	70.0-130			8.15	30
Naphthalene	0.400	0.336	0.358	84.0	89.5	70.0-130			6.34	30
Phenanthrene	0.400	0.347	0.354	86.8	88.5	70.0-130			2.00	30
Pyrene	0.400	0.325	0.341	81.2	85.3	70.0-130			4.80	30
(S) Nitrobenzene-d5				*85.0*	*93.8*	*31.0-146*				
(S) 2-Fluorobiphenyl				*84.3*	*91.7*	*31.0-130*				
(S) p-Terphenyl-d14				*97.5*	*101*	*20.0-127*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RT	Retention Time.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
T8	Sample(s) received past/too close to holding time expiration.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
TTI Environmental, Inc. - NJ

1253 North Church Street
Moorestown, NJ 08057

Billing Information:
Attn: Accounts Payable
1253 N Church St
Moorestown, NJ 08057

Pres Chk

Report to:
Mr. Andy Basehoar

Email To: andyb@ttienv.com

Project Description:
CRA Reliable Tire

City/State Collected: Camden, NJ

Please Circle: PT MT CT ET

Phone: 856-840-8800

Client Project # 20-763

Lab Project # TTIENVMNJ-CRARELIABL

Collected by (print):
Alec Halbiner

Site/Facility ID #
NJ

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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	DRO/RLA (DRO/ORO), TS 4oz Cl, NoPres	GRO 40ml/NaHSO4/Sv/MeOH	SVEPHSNJ (CAT 1), TS 4oz Amb NoPres	SVEPHSNJ (CAT 2), TS 4oz Amb NoPres	Naphthalene and 2-methyl naphthalene (hold)	Remarks	Sample # (lab only)
AOC1-1 @12.0-12.5	Grab	SS	12-12.5	4/26/21	0920	2	X	X			X		-01
AOC1-2 @12.0-12.5		SS	12-12.5		0930	2	X	X			X		-02
AOC1-3 @13.0-13.5		SS	13-13.5		0940	1	X	X			X		-03
AOC1-4 @11.0-11.5		SS	11-11.5		0952	1	X	X			X		-04
AOC1-5 @12.0-12.5		SS	12-12.5		1005	1	X	X			X		-05
AOC1-6 @12.0-12.5		SS	12-12.5		1015	1	X	X	X		X		-06
AOC1-7 @12-12.5		SS	12-12.5		1020	1	X	X	X		X		-07
AOC1-8 @12-12.5		SS	12-12.5		1040	1	X	X	X		X		-08
AOC1-9 @12-12.5		SS	12-12.5		1050	1	X	X	X		X		-09
AOC1-10 @12.0-12.5		SS	12-12.5		1052	1	X	X	X		X		-10

EPH Ext. Cat. I

PAH's (hold)

Chain of Custody Page 1 of 1

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SDG # L1344477

B055
L1360173

Acctnum: TTIENVMNJ

Template: T186181

Prelogin: P842445

PM: 3513 - Jennifer Huckaba

PB: JB 4-22-21

Shipped Via: FedEX Standard

NJ 6/2/21

-01

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

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

	Date:	Time:		
Relinquished by : (Signature)	4/26/21	1545	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2°C 0, 1.4, 2.0, 1.3 Bottles Received: 62
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/27/21 Time: 1230

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
TTI Environmental, Inc. - NJ

1253 North Church Street
Moorestown, NJ 08057

Billing Information:
Attn: Accounts Payable
1253 N Church St
Moorestown, NJ 08057

Pres Chk

Report to:
Mr. Andy Basehoar

Email To: andyb@ttienv.com

Project Description:
CRA Reliable Tire

City/State Collected: Camden, NJ

Please Circle: PT MT CT ET

Phone: 856-840-8800

Client Project #
20-763

Lab Project #
TTIENVMNJ-CRARELIABL

Collected by (print):
Alec Hollowell

Site/Facility ID #
NJ

P.O. #

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

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 3 of 4

Pace Analytical

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SDG # L1344477

Table # L1360173

Acctnum: TTIENVMNJ

Template: T186181

Prelogin: P842445

PM: 3513 - Jennifer Huckaba

PB: TB 4-22-21

Shipped Via: FedEX Standard

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8260TX (DRO/ORO),TS 4oz Clr-NoPres	GRO 40ml/NaHSO4/Syr/MeOH	SVEPHSNJ (CAT 1),TS 4oz Amb-NoPres	SVEPHSNJ (CAT 2),TS 4oz Amb-NoPres	EPH Cat. I	PAHs (Mod)	Naphthalene + 2-methylnaphthalene (Mod)				Remarks	Sample # (lab only)
AOC1-21@12.0-12.5	Grab	SS	12-12.5	4/26/21	1305	1			X		X	X	X					-21
AOC1-22@12.0-12.5		SS	12-12.5		1315	1			X		X	X	X					-22
AOC1-23@12.0-12.5		SS	12-12.5		1325	1			X		X	X	X					-23
AOC1-24@11.5-12.0		SS	11.5-12		1332	1			X		X	X	X					-24
AOC1-25@10.5-11.0		SS	10.5-11		1405	1			X		X	X	X					-25
AOC1-26@10.5-11.0		SS	10.5-11		1415	1			X		X	X	X					-26
AOC1-27@10.5-11.0		SS	10.5-11		1430	1			X		X	X	X					-27
AOC1-28@11.5-12.0		SS	11.5-12		1435	0			X		X	X	X					
FD-1		SS	—		—	1			X		X	X	X					-28
FD-2		SS	—		—	1			X		X	X	X					-29

-02

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

Remarks:

pH ____ Temp ____

Flow ____ Other ____

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

Samples returned via:
___ UPS ___ FedEx ___ Courier _____

Tracking #

	Date:	Time:		
Relinquished by: (Signature)	4/26/21	1545	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2 °C Bottles Received: 62 a1742=03
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/27/21 Time: 1230

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
TTI Environmental, Inc. - NJ

1253 North Church Street
Moorestown, NJ 08057

Billing Information:
Attn: Accounts Payable
1253 N Church St
Moorestown, NJ 08057

Pres Chk

Report to:
Mr. Andy Basehoar

Email To: andyb@ttienv.com

Project Description:
CRA Reliable Tire

City/State Collected: Camden, NJ

Please Circle: PT MT CT ET

Phone: 856-840-8800

Client Project #
20-763

Lab Project #
TTIENVMNJ-CRARELIABL

Collected by (print):
Alec Halbruner

Site/Facility ID #
NJ

P.O. #
TBD

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

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

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	GN,SV8081/8082NJ,TS-4ozClr-NoPres EPH Cat. I	MD010TAL-METALS 2ozClr-NoPres PAHs (hold)	SV8082NJ,TS-4ozClr-NoPres PAHs, PCBs,	SV8270PAHDNJTIC* 4ozAmb-NoPres TAL Metals	SV8270PAHDNJTIC,TS-4ozAmb-NoPres PCBs	SV8270ICLDNJTIC 4ozAmb-NoPres	TS 4ozClr-NoPres EPH Cat. 2	SV8260TCLNJTIC 40ml/NaHSO4/SYMeOH	Naphthalene (hold) + 2-methylnaphthalene	PAHs (hold, run if EPH is detected)	Remarks	Sample # (lab only)
AOC1-29@11.5-12.0	Grab	SS	11.5-12	4/27/21	0825	1	X	X				X		X	X			-01
AOC1-30@ 11.5-12.0		SS	11.5-12		0840	1	X	X				X		X	X			-02
AOC1-31@ 11.5-12.0		SS	11.5-12		0848	1	X	X				X		X	X			-03
AOC1-32@ 12.5-13.0		SS	12.5-13		0900	1	X	X				X		X	X			-04
AOC1-33@ 12.0-12.5		SS	12-12.5		0910	1	X	X				X		X	X			-05
AOC7-1@ 11.0-11.5		SS	11-11.5		0925	3	X	X	X	X		X		X				-06
AOC6-1@ 10.5-11.0		SS	10.5-11		0938	2	X	X			X	X	X	X		X		-07
AOC6-2@ 11.0-11.5		SS	11-11.5		0945	2	X	X			X	X	X	X		X		-08
AOC6-3@ 11.5-12.0		SS	11.5-12		0952	2	X	X			X	X	X	X		X		-09
AOC6-4@ 11.5-12.0		SS	11.5-12		1002	2	X	X			X	X	X	X		X		-10

-03

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

Remarks: For SV8270PAHDNJTIC*, list is only Nap & 2-Methylnap. Use TTIENVMNJ-CRA-NAP2MN project for those samples.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 1.5 °C Bottles Received: 81

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

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)
	4/27/21	15:30	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Date: 04/28/21 Time: 1200

Chain of Custody Page 1 of 3

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SDG # ~~L1345179~~ B105 L1360173

Acctnum: TTIENVMNJ
Template: T186156
Prelogin: P842448
PM: 3513 - Jennifer Huckaba
PB: TB 4-22-21
Shipped Via: FedEx Standard

L1345179 and L1344477 - TTIENVMNJ - relogs for NJ PAH - due 6/8

R5

L1344477-02, L1344477-22 AND L1345179-10 -- relog to new 1 new SDG for SV8270PAHDNJTIC + TS (transfer from original). Due date 6/8 R5

Thank you.

Jennifer Huckaba
Project Manager
615.773.7946
Cell Phone: 615-881-3341

From: Alec Halbruner <alech@ttienv.com>
Sent: Tuesday, June 1, 2021 9:31 AM
To: Jennifer Huckaba <Jennifer.Huckaba@pacelabs.com>
Cc: Andy Basehoar <andyb@ttienv.com>
Subject: Analysis expansion for PAHs - L1345179 and L1344477

Good morning Jennifer,

Could we have samples "AOC1-2 @ 12.0-12.5", "AOC1-22 @ 12.0-12.5", and "AOC6-4 @ 11.5-12.0" analyzed for PAHs? The first two samples are under L1344477 and the third sample is under L1345179. Let me know if there are any issues with running this - the samples were collected originally submitted to the lab in the beginning of May.

Thanks,

Alec Halbruner
Environmental Associate 2
TTI ENVIRONMENTAL, INC.
1253 North Church Street, Moorestown, NJ 08057
p 856-840-8800 x 39 | f 856-840-8815 | c 609-923-4451 | www.ttienv.com <http://www.ttienv.com/> l [Image removed by sender. FB] <http://www.facebook.com/pages/TTI-Environmental-Inc/274725712659936?ref=hl> [Image removed by sender. LI] <http://www.linkedin.com/company/1090854?trk=tyah> [Image removed by sender. TW] <https://twitter.com/ttienv>

Time estimate: oh **Time spent:** oh

Members

JJH Jennifer Huckaba (responsible)

DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name: Pace Analytical National ***Client:*** TTI Environmental, Inc.

Project Location: Camden, NJ ***Project Number:*** 20-763

Laboratory Sample ID(s): L1360173-01 thru -03 ***Sampling Date(s):*** 04/26-27/21

List DKQP Methods Used (e.g., 8260, 8270, et cetera) 8270E

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	X Yes □ No
1A	Were the method specified handling, preservation, and holding time requirements met?	□ Yes X No
1B	*EPH Method*: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	□ Yes □ No X N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	X Yes □ No
3	Were samples received at an appropriate temperature (4±2° C)?	X Yes □ No □ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	X Yes □ No
5	a) Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b) Were these reporting limits met?	X Yes □ No X Yes □ No □ NA
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	X Yes □ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	□ Yes X No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Data of Known Quality."

ANALYTICAL REPORT

June 03, 2022

TTI Environmental, Inc. - NJ

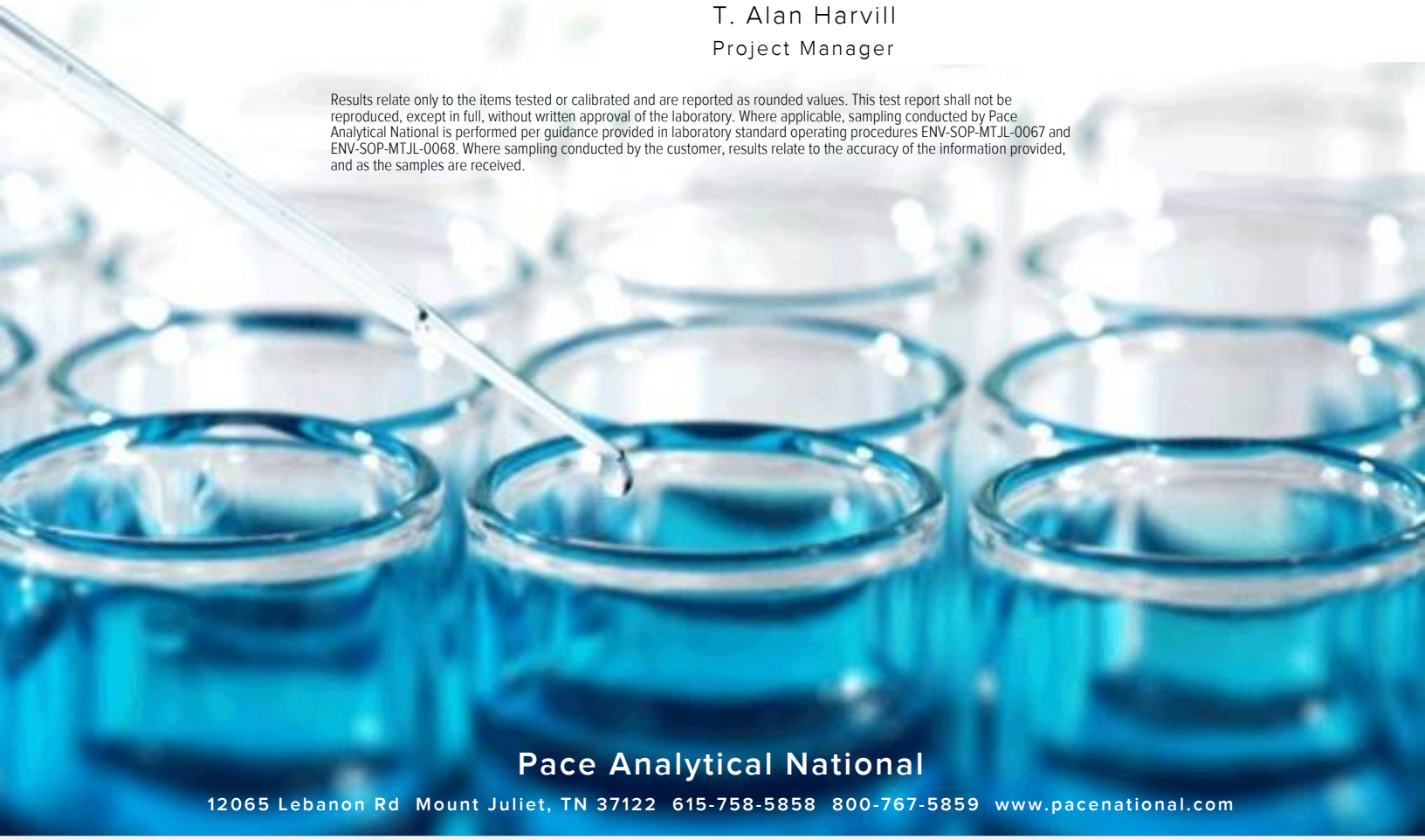
Sample Delivery Group:	L1496734
Samples Received:	05/21/2022
Project Number:	20-763
Description:	CRA Reliable Tire

Report To:

Mr. Alec Halbruner
1253 North Church Street
Moorestown, NJ 08057

Entire Report Reviewed By:

T. Alan Harvill
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SAMPLE SUMMARY

MW-1 L1496734-01 GW

Collected by: Alec Halbruner | Collected date/time: 05/19/22 12:25 | Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1872698	1	06/01/22 16:46	06/02/22 09:44	JDG	Mt. Juliet, TN

MW-2 L1496734-02 GW

Collected by: Alec Halbruner | Collected date/time: 05/19/22 13:47 | Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1872698	1	06/01/22 16:46	06/02/22 09:47	JDG	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1869497	1.11	05/26/22 14:25	05/27/22 00:18	AMM	Mt. Juliet, TN

MW-3 L1496734-03 GW

Collected by: Alec Halbruner | Collected date/time: 05/19/22 10:47 | Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1872698	1	06/01/22 16:46	06/02/22 09:50	JDG	Mt. Juliet, TN

MW-4 L1496734-04 GW

Collected by: Alec Halbruner | Collected date/time: 05/19/22 15:31 | Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1872698	1	06/01/22 16:46	06/02/22 09:52	JDG	Mt. Juliet, TN

BD5192022 L1496734-05 GW

Collected by: Alec Halbruner | Collected date/time: 05/19/22 00:00 | Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1872698	1	06/01/22 16:46	06/02/22 09:55	JDG	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill
Project Manager

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	U		4.40	10.0	1	06/02/2022 09:44	WG1872698
Iron	2630		18.0	100	1	06/02/2022 09:44	WG1872698
Lead	U		2.99	6.00	1	06/02/2022 09:44	WG1872698
Sodium	80000		504	3000	1	06/02/2022 09:44	WG1872698

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	U		4.40	10.0	1	06/02/2022 09:47	WG1872698
Beryllium	U		0.330	2.00	1	06/02/2022 09:47	WG1872698
Chromium	U		1.40	10.0	1	06/02/2022 09:47	WG1872698
Cobalt	1.04	J	0.840	10.0	1	06/02/2022 09:47	WG1872698
Iron	25.5	J	18.0	100	1	06/02/2022 09:47	WG1872698
Lead	U		2.99	6.00	1	06/02/2022 09:47	WG1872698
Nickel	U		1.61	10.0	1	06/02/2022 09:47	WG1872698
Thallium	U		4.31	10.0	1	06/02/2022 09:47	WG1872698

Pesticides (GC) by Method 8081

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Heptachlor epoxide	0.265		0.0203	0.0555	1.11	05/27/2022 00:18	WG1869497
(S) Decachlorobiphenyl	*87.9*			*10.0-128*		*05/27/2022 00:18*	WG1869497
(S) Tetrachloro-m-xylene	*67.9*			*10.0-127*		*05/27/2022 00:18*	WG1869497

Sample Narrative:

L1496734-02 WG1869497: Dilution due to sample volume.

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	U		4.40	10.0	1	06/02/2022 09:50	WG1872698
Beryllium	U		0.330	2.00	1	06/02/2022 09:50	WG1872698
Chromium	2.98	J	1.40	10.0	1	06/02/2022 09:50	WG1872698
Cobalt	1.37	J	0.840	10.0	1	06/02/2022 09:50	WG1872698
Iron	991		18.0	100	1	06/02/2022 09:50	WG1872698
Lead	U		2.99	6.00	1	06/02/2022 09:50	WG1872698
Nickel	U		1.61	10.0	1	06/02/2022 09:50	WG1872698

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	U		4.40	10.0	1	06/02/2022 09:52	WG1872698
Beryllium	1.55	J	0.330	2.00	1	06/02/2022 09:52	WG1872698
Chromium	24.8		1.40	10.0	1	06/02/2022 09:52	WG1872698
Cobalt	9.95	J	0.840	10.0	1	06/02/2022 09:52	WG1872698
Iron	19600		18.0	100	1	06/02/2022 09:52	WG1872698
Lead	8.69		2.99	6.00	1	06/02/2022 09:52	WG1872698
Nickel	5.84	J	1.61	10.0	1	06/02/2022 09:52	WG1872698

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	8.89	J	4.40	10.0	1	06/02/2022 09:55	WG1872698
Beryllium	1.76	J	0.330	2.00	1	06/02/2022 09:55	WG1872698
Chromium	37.3		1.40	10.0	1	06/02/2022 09:55	WG1872698
Cobalt	11.0		0.840	10.0	1	06/02/2022 09:55	WG1872698
Iron	30900		18.0	100	1	06/02/2022 09:55	WG1872698
Lead	11.8		2.99	6.00	1	06/02/2022 09:55	WG1872698
Nickel	7.62	J	1.61	10.0	1	06/02/2022 09:55	WG1872698

Method Blank (MB)

(MB) R3798755-1 06/02/22 09:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Arsenic	U		4.40	10.0
Beryllium	U		0.330	2.00
Chromium	U		1.40	10.0
Cobalt	U		0.840	10.0
Iron	U		18.0	100
Lead	U		2.99	6.00
Nickel	U		1.61	10.0
Sodium	U		504	3000
Thallium	U		4.31	10.0

Laboratory Control Sample (LCS)

(LCS) R3798755-2 06/02/22 09:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	1000	920	92.0	80.0-120	
Beryllium	1000	966	96.6	80.0-120	
Chromium	1000	957	95.7	80.0-120	
Cobalt	1000	971	97.1	80.0-120	
Iron	10000	9380	93.8	80.0-120	
Lead	1000	948	94.8	80.0-120	
Nickel	1000	938	93.8	80.0-120	
Sodium	10000	9770	97.7	80.0-120	
Thallium	1000	961	96.1	80.0-120	

L1496688-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496688-20 06/02/22 09:15 • (MS) R3798755-4 06/02/22 09:20 • (MSD) R3798755-5 06/02/22 09:23

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	1000	U	959	951	95.9	95.1	1	75.0-125			0.750	20
Beryllium	1000	U	966	958	96.6	95.8	1	75.0-125			0.838	20
Chromium	1000	U	959	949	95.9	94.9	1	75.0-125			1.12	20
Cobalt	1000	0.920	978	971	97.7	97.0	1	75.0-125			0.773	20
Iron	10000	U	9420	9350	94.2	93.5	1	75.0-125			0.832	20
Lead	1000	U	957	949	95.7	94.9	1	75.0-125			0.820	20
Nickel	1000	U	948	942	94.8	94.2	1	75.0-125			0.676	20
Sodium	10000	30400	39500	39100	90.1	86.4	1	75.0-125			0.941	20
Thallium	1000	U	963	954	96.3	95.4	1	75.0-125			0.958	20

QUALITY CONTROL SUMMARY

L1496734-02

Method Blank (MB)

(MB) R3796843-1 05/26/22 21:45

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Heptachlor epoxide	U		0.0183	0.0500
(S) Decachlorobiphenyl	*85.9*			*10.0-128*
(S) Tetrachloro-m-xylene	*67.7*			*10.0-127*

Laboratory Control Sample (LCS)

(LCS) R3796843-2 05/26/22 21:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Heptachlor epoxide	1.00	1.06	106	57.0-130	
(S) Decachlorobiphenyl			*86.0*	*10.0-128*	
(S) Tetrachloro-m-xylene			*86.2*	*10.0-127*	

L1496329-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496329-05 05/26/22 23:11 • (MS) R3796843-3 05/26/22 23:21 • (MSD) R3796843-4 05/26/22 23:30

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Heptachlor epoxide	1.00	U	1.11	1.07	111	107	1	10.0-160			3.67	36
(S) Decachlorobiphenyl					*99.5*	*95.8*		*10.0-128*				
(S) Tetrachloro-m-xylene					*85.4*	*78.2*		*10.0-127*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
TTI Environmental, Inc. - NJ

1253 North Church Street
Moorestown, NJ 08057

Billing Information:
Attn: Accounts Payable
1253 N Church St
Moorestown, NJ 08057

Pres Chk

Report to:
Mr. Alec Halbruner

Email To: **alech@ttienv.com**

Project Description:
CRA Reliable Tire

City/State Collected: Camden, NJ

Please Circle: PT MT CT (ET)

Phone: **856-840-8800**

Client Project #
20-763

Lab Project #
TTIEPNVMNJ-CRA

Collected by (print):
Alec Halbruner

Site/Facility ID #

P.O. # 034873
~~To be provided~~

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Heptachlor Epoxide 100ml Amb-NoPres	TAL Metals 250ml HDPE-HNO3	<2	<2	<2	<2					
									Arsenic, Iron, Lead, Sodium	Arsenic, Beryllium, Chromium, Cobalt	Iron, ~~Lead~~ and Nickel	Thallium	Heptachlor epoxide			Remarks	Sample # (lab only)
MW-1	Grab	GW	—	5/19/22	1225	1		X	X								-01
MW-2		GW	—		1347	3		X		X	X	X	X				-02
MW-3		GW	—		1047	1		X		X	X						-03
MW-4		GW	—		1531	1		X		X	X						-04
BD51920 22		GW	—		—	1		X		X	X						-05
		GW				1		X									
		GW				2	X										
		GW				2	X										
		GW				2	X										

Chain of Custody Page 1 of 1

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 # L1496734
L-116

Acctnum: **TTIENVMNJ**
Template: **T209673**
Prelogin: **P925501**
PM: **364 - T. Alan Harvill**
PB: NJ 5117122
Shipped Via: **FedEX Priority**

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

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	
	5/20	1630			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C	Bottles Received:
				WM#71:1.1=1.9	7
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:
				5/21/22	9:30

If preservation required by Login: Date/Time

Hold: | Condition: NCF / (OK)

ANALYTICAL REPORT

Lab Number:	L2230548
Client:	TTI Environmental, Inc. 1253 North Church Street Moorestown, NJ 08057
ATTN:	Alec Halbruner
Phone:	(856) 840-8800
Project Name:	CRA RELIABLE TIRE
Project Number:	20-763
Report Date:	06/24/22

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2230548
Report Date: 06/24/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2230548-01	AOC 2-2-E2@11.5-12	SOIL	CAMDEN, NJ	06/09/22 09:12	06/09/22
L2230548-02	AOC 2-2-E1-S@11.5-12	SOIL	CAMDEN, NJ	06/09/22 09:22	06/09/22
L2230548-03	AOC 2-2-E1-D@14.5-15	SOIL	CAMDEN, NJ	06/09/22 09:25	06/09/22
L2230548-04	AOC 2-2-S2@11.5-12	SOIL	CAMDEN, NJ	06/09/22 09:32	06/09/22
L2230548-05	AOC 2-2-S1@11.5-12	SOIL	CAMDEN, NJ	06/09/22 09:39	06/09/22
L2230548-06	AOC 2-2-W2@11.5-12	SOIL	CAMDEN, NJ	06/09/22 09:46	06/09/22
L2230548-07	AOC 2-2-W1@11.5-12	SOIL	CAMDEN, NJ	06/09/22 09:52	06/09/22
L2230548-08	AOC 9-1-W2@0-0.5	SOIL	CAMDEN, NJ	06/09/22 10:05	06/09/22
L2230548-09	AOC 9-1-W1@0-0.5	SOIL	CAMDEN, NJ	06/09/22 10:07	06/09/22
L2230548-10	AOC 9-1-N2@0-0.5	SOIL	CAMDEN, NJ	06/09/22 10:10	06/09/22
L2230548-11	AOC 9-1-N1@0-0.5	SOIL	CAMDEN, NJ	06/09/22 10:14	06/09/22
L2230548-12	AOC 9-1-E2@0-0.5	SOIL	CAMDEN, NJ	06/09/22 10:19	06/09/22
L2230548-13	AOC 9-1-E1-S@0-0.5	SOIL	CAMDEN, NJ	06/09/22 10:22	06/09/22
L2230548-14	AOC 9-1-E1-D@4.5-5.0	SOIL	CAMDEN, NJ	06/09/22 10:23	06/09/22
L2230548-15	AOC 9-1-S1@0-0.5	SOIL	CAMDEN, NJ	06/09/22 10:26	06/09/22
L2230548-16	AOC 9-1-S2@0-0.5	SOIL	CAMDEN, NJ	06/09/22 10:30	06/09/22
L2230548-17	TP-6-W2@3-3.5	SOIL	CAMDEN, NJ	06/09/22 10:43	06/09/22
L2230548-18	TP-6-W1@3-3.5	SOIL	CAMDEN, NJ	06/09/22 10:46	06/09/22
L2230548-19	TP-6-S2@3-3.5	SOIL	CAMDEN, NJ	06/09/22 10:50	06/09/22
L2230548-20	TP-6-S1@3-3.5	SOIL	CAMDEN, NJ	06/09/22 10:54	06/09/22
L2230548-21	TP-6-E1-S@3-3.5	SOIL	CAMDEN, NJ	06/09/22 10:57	06/09/22
L2230548-22	TP-6-E1-D@4.5-5.0	SOIL	CAMDEN, NJ	06/09/22 10:59	06/09/22
L2230548-23	TP-6-E2@3-3.5	SOIL	CAMDEN, NJ	06/09/22 11:05	06/09/22
L2230548-24	TP-6-N1@3-3.5	SOIL	CAMDEN, NJ	06/09/22 11:15	06/09/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2230548-25	TP-6-N2@3-3.5	SOIL	CAMDEN, NJ	06/09/22 11:19	06/09/22
L2230548-26	TP-4-W2@0.5-1	SOIL	CAMDEN, NJ	06/09/22 11:32	06/09/22
L2230548-27	TP-4-W1@0.5-1	SOIL	CAMDEN, NJ	06/09/22 11:35	06/09/22
L2230548-28	TP-4-S1@0.5-1	SOIL	CAMDEN, NJ	06/09/22 11:38	06/09/22
L2230548-29	TP-4-S2@0.5-1	SOIL	CAMDEN, NJ	06/09/22 11:42	06/09/22
L2230548-30	TP-4-E1-S@0.5-1	SOIL	CAMDEN, NJ	06/09/22 11:45	06/09/22
L2230548-31	TP-4-E1-D@4.5-5	SOIL	CAMDEN, NJ	06/09/22 11:46	06/09/22
L2230548-32	TP-4-E2@0.5-1	SOIL	CAMDEN, NJ	06/09/22 11:49	06/09/22
L2230548-33	TP-4-N1@0.5-1	SOIL	CAMDEN, NJ	06/09/22 11:53	06/09/22

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2230548
Report Date: 06/24/22

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	YES
5b	Were these reporting limits met?	YES
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name:	CRA RELIABLE TIRE	**Lab Number:**	L2230548
Project Number:	20-763	**Report Date:**	06/24/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	CRA RELIABLE TIRE	**Lab Number:**	L2230548
Project Number:	20-763	**Report Date:**	06/24/22

Case Narrative (continued)

Report Submission

June 24, 2022: This final report includes the results of all requested analyses.

June 17, 2022: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Semivolatile Organics

L2230548-11: The sample has an elevated detection limit due to the limited sample volume utilized during extraction, as required by the sample matrix.

L2230548-15D: The sample has an elevated detection limit due to the dilution required by the sample matrix.

Total Metals

In reference to question 4:

The WG1650524-3 MS recovery for lead (0%), performed on L2230548-18, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1650524-4 Laboratory Duplicate RPD for lead (23%), performed on L2230548-18, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 06/24/22

ORGANICS

SEMIVOLATILES

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-09
Client ID: AOC 9-1-W1@0-0.5
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 10:07
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 06/15/22 20:53
Analyst: SLR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 06/14/22 19:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	0.55		mg/kg	0.14	0.045	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	106		30-130
2-Fluorobiphenyl	53		30-130
4-Terphenyl-d14	52		30-130

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-11
Client ID: AOC 9-1-N1@0-0.5
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 10:14
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 06/15/22 20:30
Analyst: SLR
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 06/14/22 19:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	0.18	J	mg/kg	0.44	0.15	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	109		30-130
2-Fluorobiphenyl	58		30-130
4-Terphenyl-d14	63		30-130

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-13
Client ID: AOC 9-1-E1-S@0-0.5
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 10:22
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 06/15/22 20:07
Analyst: SLR
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 06/14/22 19:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		mg/kg	0.15	0.049	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	101		30-130
2-Fluorobiphenyl	55		30-130
4-Terphenyl-d14	62		30-130

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-14
Client ID: AOC 9-1-E1-D@4.5-5.0
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 10:23
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 06/15/22 19:43
Analyst: SLR
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 06/14/22 19:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		mg/kg	0.16	0.054	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	79		30-130
2-Fluorobiphenyl	41		30-130
4-Terphenyl-d14	44		30-130

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-15 D
Client ID: AOC 9-1-S1@0-0.5
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 10:26
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 06/16/22 13:27
Analyst: CMM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 06/14/22 19:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	0.58	J	mg/kg	1.3	0.44	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	47		30-130
2-Fluorobiphenyl	49		30-130
4-Terphenyl-d14	37		30-130

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-27
Client ID: TP-4-W1@0.5-1
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 11:35
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 06/15/22 04:13
Analyst: SLR
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 06/14/22 13:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		mg/kg	0.15	0.051	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	78		30-130
2-Fluorobiphenyl	44		30-130
4-Terphenyl-d14	45		30-130

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-28
Client ID: TP-4-S1@0.5-1
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 11:38
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 06/15/22 04:37
Analyst: SLR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 06/14/22 13:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	0.14		mg/kg	0.14	0.045	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	73		30-130
2-Fluorobiphenyl	37		30-130
4-Terphenyl-d14	37		30-130

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-30
Client ID: TP-4-E1-S@0.5-1
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 11:45
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 06/15/22 03:50
Analyst: SLR
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 06/14/22 13:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		mg/kg	0.15	0.050	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	84		30-130
2-Fluorobiphenyl	46		30-130
4-Terphenyl-d14	41		30-130

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-31
Client ID: TP-4-E1-D@4.5-5
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 11:46
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 06/15/22 03:27
Analyst: SLR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 06/14/22 13:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		mg/kg	0.13	0.044	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	63		30-130
2-Fluorobiphenyl	35		30-130
4-Terphenyl-d14	35		30-130

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-33
Client ID: TP-4-N1@0.5-1
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 11:53
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 06/15/22 05:00
Analyst: SLR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 06/14/22 13:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	0.10	J	mg/kg	0.14	0.045	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	92		30-130
2-Fluorobiphenyl	49		30-130
4-Terphenyl-d14	47		30-130

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 06/15/22 04:44
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 06/14/22 00:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 27-28,30-31,33 Batch: WG1650115-1					
Benzo(a)pyrene	ND		mg/kg	0.12	0.040

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		30-130
Phenol-d6	85		30-130
Nitrobenzene-d5	82		30-130
2-Fluorobiphenyl	79		30-130
2,4,6-Tribromophenol	82		30-130
4-Terphenyl-d14	78		30-130

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 06/15/22 13:22
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 06/14/22 19:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09,11,13-15 Batch: WG1650563-1					
Benzo(a)pyrene	ND		mg/kg	0.12	0.040

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		30-130
Phenol-d6	76		30-130
Nitrobenzene-d5	72		30-130
2-Fluorobiphenyl	75		30-130
2,4,6-Tribromophenol	101		30-130
4-Terphenyl-d14	83		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CRA RELIABLE TIRE

Project Number: 20-763

Lab Number: L2230548

Report Date: 06/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27-28,30-31,33 Batch: WG1650115-2 WG1650115-3								
Benzo(a)pyrene	94		100		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	96		87		30-130
Phenol-d6	94		87		30-130
Nitrobenzene-d5	79		81		30-130
2-Fluorobiphenyl	88		83		30-130
2,4,6-Tribromophenol	101		90		30-130
4-Terphenyl-d14	92		85		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CRA RELIABLE TIRE

Project Number: 20-763

Lab Number: L2230548

Report Date: 06/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09,11,13-15 Batch: WG1650563-2 WG1650563-3								
Benzo(a)pyrene	83		73		70-130	13		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		64		30-130
Phenol-d6	68		59		30-130
Nitrobenzene-d5	68		61		30-130
2-Fluorobiphenyl	68		59		30-130
2,4,6-Tribromophenol	99		85		30-130
4-Terphenyl-d14	74		65		30-130

Matrix Spike Analysis

Batch Quality Control

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09,11,13-15 QC Batch ID: WG1650563-4 QC Sample: L2230548-09 Client ID: AOC 9-1-W1@0-0.5												
Benzo(a)pyrene	0.55	1.48	1.7	78		-	-		70-130	-		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2-Fluorobiphenyl	55				30-130
4-Terphenyl-d14	52				30-130
Nitrobenzene-d5	114				30-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2230548
Report Date: 06/24/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09,11,13-15 QC Batch ID: WG1650563-5 QC Sample: L2230548-09 Client ID: AOC 9-1-W1@0-0.5						
Benzo(a)pyrene	0.55	0.62	mg/kg	12		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	106		120		30-130
2-Fluorobiphenyl	53		61		30-130
4-Terphenyl-d14	52		61		30-130

METALS

Project Name: CRA RELIABLE TIRE
Lab Number: L2230548
Project Number: 20-763
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-02
Client ID: AOC 2-2-E1-S@11.5-12
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 09:22
Date Received: 06/09/22
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/14/22 15:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	06/15/22 19:55	06/16/22 09:45	EPA 7470A	1,7470A	DMB

Project Name: CRA RELIABLE TIRE
Lab Number: L2230548
Project Number: 20-763
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-03
Client ID: AOC 2-2-E1-D@14.5-15
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 09:25
Date Received: 06/09/22
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/14/22 15:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	06/15/22 19:55	06/16/22 09:55	EPA 7470A	1,7470A	DMB

Project Name: CRA RELIABLE TIRE
Lab Number: L2230548
Project Number: 20-763
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-05
Client ID: AOC 2-2-S1@11.5-12
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 09:39
Date Received: 06/09/22
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/14/22 15:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	06/15/22 19:55	06/16/22 09:58	EPA 7470A	1,7470A	DMB

Project Name: CRA RELIABLE TIRE
Lab Number: L2230548
Project Number: 20-763
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-07
Client ID: AOC 2-2-W1@11.5-12
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 09:52
Date Received: 06/09/22
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/14/22 15:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	06/15/22 19:55	06/16/22 10:01	EPA 7470A	1,7470A	DMB

Project Name: CRA RELIABLE TIRE
Lab Number: L2230548
Project Number: 20-763
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-09
Client ID: AOC 9-1-W1@0-0.5
Sample Location: CAMDEN, NJ
Date Collected: 06/09/22 10:07
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%
TCLP/SPLP Ext. Date: 06/14/22 15:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Mercury, SPLP	0.00011	J	mg/l	0.00020	0.00009	1	06/15/22 19:55	06/16/22 10:04	EPA 7470A	1,7470A	DMB

Project Name: CRA RELIABLE TIRE
Lab Number: L2230548
Project Number: 20-763
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-11
Client ID: AOC 9-1-N1@0-0.5
Sample Location: CAMDEN, NJ
Date Collected: 06/09/22 10:14
Date Received: 06/09/22
Field Prep: Not Specified
Sample Depth:
TCLP/SPLP Ext. Date: 06/14/22 15:27
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	06/15/22 19:55	06/16/22 10:08	EPA 7470A	1,7470A	DMB

Project Name: CRA RELIABLE TIRE
Lab Number: L2230548
Project Number: 20-763
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-13
Client ID: AOC 9-1-E1-S@0-0.5
Sample Location: CAMDEN, NJ
Date Collected: 06/09/22 10:22
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%
TCLP/SPLP Ext. Date: 06/14/22 15:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	06/15/22 19:55	06/16/22 10:11	EPA 7470A	1,7470A	DMB

Project Name: CRA RELIABLE TIRE
Lab Number: L2230548
Project Number: 20-763
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-14
Client ID: AOC 9-1-E1-D@4.5-5.0
Sample Location: CAMDEN, NJ
Date Collected: 06/09/22 10:23
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%
TCLP/SPLP Ext. Date: 06/14/22 15:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	06/15/22 19:55	06/16/22 10:14	EPA 7470A	1,7470A	DMB

Project Name: CRA RELIABLE TIRE
Lab Number: L2230548
Project Number: 20-763
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-15
Client ID: AOC 9-1-S1@0-0.5
Sample Location: CAMDEN, NJ
Date Collected: 06/09/22 10:26
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%
TCLP/SPLP Ext. Date: 06/14/22 15:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	06/15/22 19:55	06/16/22 10:32	EPA 7470A	1,7470A	DMB

Project Name: CRA RELIABLE TIRE
Lab Number: L2230548
Project Number: 20-763
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-18
Client ID: TP-6-W1@3-3.5
Sample Location: CAMDEN, NJ
Date Collected: 06/09/22 10:46
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	542		mg/kg	2.36	0.127	1	06/14/22 20:00	06/23/22 18:15	EPA 3050B	1,6010D	MC

Project Name: CRA RELIABLE TIRE
Lab Number: L2230548
Project Number: 20-763
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-20
Client ID: TP-6-S1@3-3.5
Sample Location: CAMDEN, NJ
Date Collected: 06/09/22 10:54
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	488		mg/kg	2.17	0.116	1	06/14/22 20:00	06/23/22 18:01	EPA 3050B	1,6010D	MC

Project Name: CRA RELIABLE TIRE
Lab Number: L2230548
Project Number: 20-763
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-21
Client ID: TP-6-E1-S@3-3.5
Sample Location: CAMDEN, NJ
Date Collected: 06/09/22 10:57
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	41.7		mg/kg	2.27	0.122	1	06/14/22 20:00	06/23/22 18:06	EPA 3050B	1,6010D	MC

Project Name: CRA RELIABLE TIRE
Lab Number: L2230548
Project Number: 20-763
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-22
Client ID: TP-6-E1-D@4.5-5.0
Sample Location: CAMDEN, NJ
Date Collected: 06/09/22 10:59
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	6.94		mg/kg	2.25	0.121	1	06/14/22 20:00	06/23/22 18:11	EPA 3050B	1,6010D	MC

Project Name: CRA RELIABLE TIRE
Lab Number: L2230548
Project Number: 20-763
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-24
Client ID: TP-6-N1@3-3.5
Sample Location: CAMDEN, NJ
Date Collected: 06/09/22 11:15
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	380		mg/kg	2.34	0.125	1	06/14/22 20:00	06/23/22 18:47	EPA 3050B	1,6010D	MC

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 18,20-22,24 Batch: WG1650524-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	06/14/22 20:00	06/23/22 17:52	1,6010D	MC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab for sample(s): 02-03,05,07,09,11,13-15 Batch: WG1651050-1										
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	06/15/22 19:55	06/16/22 09:23	1,7470A	DMB

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 06/14/22 15:27

Lab Control Sample Analysis

Batch Quality Control

Project Name: CRA RELIABLE TIRE

Project Number: 20-763

Lab Number: L2230548

Report Date: 06/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 18,20-22,24 Batch: WG1650524-2 SRM Lot Number: D113-540								
Lead, Total	101		-		72-128	-		
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13-15 Batch: WG1651050-2								
Mercury, SPLP	86		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2230548
Report Date: 06/24/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 18,20-22,24 QC Batch ID: WG1650524-3 QC Sample: L2230548-18 Client ID: TP-6-W1@3-3.5												
Lead, Total	542	49.5	160	**0**	Q	-	-		75-125	-		20
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13-15 QC Batch ID: WG1651050-3 QC Sample: L2230548-02 Client ID: AOC 2-2-E1-S@11.5-12												
Mercury, SPLP	ND	0.005	0.00463	93		-	-		80-120	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2230548
Report Date: 06/24/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 18,20-22,24 QC Batch ID: WG1650524-4 QC Sample: L2230548-18 Client ID: TP-6-W1@3-3.5						
Lead, Total	542	432	mg/kg	**23**	Q	20
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13-15 QC Batch ID: WG1651050-4 QC Sample: L2230548-02 Client ID: AOC 2-2-E1-S@11.5-12						
Mercury, SPLP	ND	ND	mg/l	NC		20

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2230548
Report Date: 06/24/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 18,20-22,24 QC Batch ID: WG1650524-6 QC Sample: L2230548-18 Client ID: TP-6-W1@3-3.5						
Lead, Total	542	636	mg/kg	17		20

INORGANICS
&
MISCELLANEOUS

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-02
Client ID: AOC 2-2-E1-S@11.5-12
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 09:22
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Extraction Data by EPA 1312 - Westborough Lab										
Sample Weight	0.100		kg	-	NA	1	-	06/15/22 07:27	1,1312	JW
Leachate Volume	2.00		l	-	NA	1	-	06/15/22 07:27	1,1312	JW
pH, Extraction Post-Filtration	8.46		SU	-	NA	1	-	06/15/22 07:27	1,1312	JW

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-03
Client ID: AOC 2-2-E1-D@14.5-15
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 09:25
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Extraction Data by EPA 1312 - Westborough Lab										
Sample Weight	0.100		kg	-	NA	1	-	06/15/22 07:27	1,1312	JW
Leachate Volume	2.00		l	-	NA	1	-	06/15/22 07:27	1,1312	JW
pH, Extraction Post-Filtration	5.37		SU	-	NA	1	-	06/15/22 07:27	1,1312	JW

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-05
Client ID: AOC 2-2-S1@11.5-12
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 09:39
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Extraction Data by EPA 1312 - Westborough Lab										
Sample Weight	0.100		kg	-	NA	1	-	06/15/22 07:27	1,1312	JW
Leachate Volume	2.00		l	-	NA	1	-	06/15/22 07:27	1,1312	JW
pH, Extraction Post-Filtration	6.35		SU	-	NA	1	-	06/15/22 07:27	1,1312	JW

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-07
Client ID: AOC 2-2-W1@11.5-12
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 09:52
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Extraction Data by EPA 1312 - Westborough Lab										
Sample Weight	0.100		kg	-	NA	1	-	06/15/22 07:27	1,1312	JW
Leachate Volume	2.00		l	-	NA	1	-	06/15/22 07:27	1,1312	JW
pH, Extraction Post-Filtration	9.96		SU	-	NA	1	-	06/15/22 07:27	1,1312	JW

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-09
Client ID: AOC 9-1-W1@0-0.5
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 10:07
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Extraction Data by EPA 1312 - Westborough Lab										
Sample Weight	0.100		kg	-	NA	1	-	06/15/22 07:27	1,1312	JW
Leachate Volume	2.00		l	-	NA	1	-	06/15/22 07:27	1,1312	JW
pH, Extraction Post-Filtration	9.62		SU	-	NA	1	-	06/15/22 07:27	1,1312	JW
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	06/14/22 18:09	121,2540G	TR

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-11
Client ID: AOC 9-1-N1@0-0.5
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 10:14
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Extraction Data by EPA 1312 - Westborough Lab										
Sample Weight	0.100		kg	-	NA	1	-	06/15/22 07:27	1,1312	JW
Leachate Volume	2.00		l	-	NA	1	-	06/15/22 07:27	1,1312	JW
pH, Extraction Post-Filtration	9.92		SU	-	NA	1	-	06/15/22 07:27	1,1312	JW
General Chemistry - Westborough Lab										
Solids, Total	77.6		%	0.100	NA	1	-	06/14/22 20:48	121,2540G	MF

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-13
Client ID: AOC 9-1-E1-S@0-0.5
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 10:22
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Extraction Data by EPA 1312 - Westborough Lab										
Sample Weight	0.100		kg	-	NA	1	-	06/15/22 07:27	1,1312	JW
Leachate Volume	2.00		l	-	NA	1	-	06/15/22 07:27	1,1312	JW
pH, Extraction Post-Filtration	9.63		SU	-	NA	1	-	06/15/22 07:27	1,1312	JW
General Chemistry - Westborough Lab										
Solids, Total	81.1		%	0.100	NA	1	-	06/14/22 20:48	121,2540G	MF

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-14
Client ID: AOC 9-1-E1-D@4.5-5.0
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 10:23
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Extraction Data by EPA 1312 - Westborough Lab										
Sample Weight	0.100		kg	-	NA	1	-	06/15/22 07:27	1,1312	JW
Leachate Volume	2.00		l	-	NA	1	-	06/15/22 07:27	1,1312	JW
pH, Extraction Post-Filtration	10.1		SU	-	NA	1	-	06/15/22 07:27	1,1312	JW
General Chemistry - Westborough Lab										
Solids, Total	74.2		%	0.100	NA	1	-	06/14/22 20:48	121,2540G	MF

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-15
Client ID: AOC 9-1-S1@0-0.5
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 10:26
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Extraction Data by EPA 1312 - Westborough Lab										
Sample Weight	0.100		kg	-	NA	1	-	06/15/22 07:27	1,1312	JW
Leachate Volume	2.00		l	-	NA	1	-	06/15/22 07:27	1,1312	JW
pH, Extraction Post-Filtration	9.73		SU	-	NA	1	-	06/15/22 07:27	1,1312	JW
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	06/14/22 20:48	121,2540G	MF

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-18
Client ID: TP-6-W1@3-3.5
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil
Date Collected: 06/09/22 10:46
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.6		%	0.100	NA	1	-	06/14/22 14:04	121,2540G	RI

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-20
Client ID: TP-6-S1@3-3.5
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 10:54
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	06/14/22 14:04	121,2540G	RI

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-21
Client ID: TP-6-E1-S@3-3.5
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 10:57
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	06/14/22 14:04	121,2540G	RI

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-22
Client ID: TP-6-E1-D@4.5-5.0
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil
Date Collected: 06/09/22 10:59
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.7		%	0.100	NA	1	-	06/14/22 14:04	121,2540G	RI

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-24
Client ID: TP-6-N1@3-3.5
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 11:15
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.6		%	0.100	NA	1	-	06/14/22 14:04	121,2540G	RI

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-27
Client ID: TP-4-W1@0.5-1
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 11:35
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.4		%	0.100	NA	1	-	06/14/22 20:48	121,2540G	MF

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-28
Client ID: TP-4-S1@0.5-1
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 11:38
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	06/14/22 20:48	121,2540G	MF

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-30
Client ID: TP-4-E1-S@0.5-1
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 11:45
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.5		%	0.100	NA	1	-	06/14/22 20:48	121,2540G	MF

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-31
Client ID: TP-4-E1-D@4.5-5
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 11:46
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	06/14/22 20:48	121,2540G	MF

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

SAMPLE RESULTS

Lab ID: L2230548-33
Client ID: TP-4-N1@0.5-1
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil
Date Collected: 06/09/22 11:53
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	06/14/22 20:48	121,2540G	MF

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2230548
Report Date: 06/24/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Extraction Data by EPA 1312 - Westborough Lab for sample(s): 02-03,05,07,09,11,13-15 Batch: WG1652553-1										
Sample Weight	ND		kg	-	NA	1	-	06/15/22 07:27	1,1312	JW
Leachate Volume	2.00		l	-	NA	1	-	06/15/22 07:27	1,1312	JW
pH, Extraction Post-Filtration	4.28		SU	-	NA	1	-	06/15/22 07:27	1,1312	JW

Lab Duplicate Analysis

Batch Quality Control

Project Name: CRA RELIABLE TIRE

Project Number: 20-763

Lab Number: L2230548

Report Date: 06/24/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11,13-15,27-28,30-31,33 QC Batch ID: WG1650588-1 QC Sample: L2230548-11 Client ID: AOC 9-1-N1@0-0.5						
Solids, Total	77.6	79.7	%	3		20

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2230548
Report Date: 06/24/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2230548-01A	Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-01B	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-02A	Glass 60mL/2oz unpreserved	B	NA		5.2	Y	Absent		-
L2230548-02B	Glass 250ml/8oz unpreserved	B	NA		5.2	Y	Absent		-
L2230548-02X	Plastic 250ml HNO3 preserved Extracts	B	NA		5.2	Y	Absent		HG-P(28)
L2230548-02X9	Tumble Vessel	B	NA		5.2	Y	Absent		-
L2230548-03A	Glass 60mL/2oz unpreserved	B	NA		5.2	Y	Absent		-
L2230548-03B	Glass 250ml/8oz unpreserved	B	NA		5.2	Y	Absent		-
L2230548-03X	Plastic 250ml HNO3 preserved Extracts	B	NA		5.2	Y	Absent		HG-P(28)
L2230548-03X9	Tumble Vessel	B	NA		5.2	Y	Absent		-
L2230548-04A	Glass 60mL/2oz unpreserved	B	NA		5.2	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-04B	Glass 250ml/8oz unpreserved	B	NA		5.2	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-05A	Glass 60mL/2oz unpreserved	B	NA		5.2	Y	Absent		-
L2230548-05B	Glass 250ml/8oz unpreserved	B	NA		5.2	Y	Absent		-
L2230548-05X	Plastic 250ml HNO3 preserved Extracts	B	NA		5.2	Y	Absent		HG-P(28)
L2230548-05X9	Tumble Vessel	B	NA		5.2	Y	Absent		-
L2230548-06A	Glass 60mL/2oz unpreserved	B	NA		5.2	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-06B	Glass 250ml/8oz unpreserved	B	NA		5.2	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-07A	Glass 60mL/2oz unpreserved	B	NA		5.2	Y	Absent		-
L2230548-07B	Glass 250ml/8oz unpreserved	B	NA		5.2	Y	Absent		-
L2230548-07X	Plastic 250ml HNO3 preserved Extracts	B	NA		5.2	Y	Absent		HG-P(28)
L2230548-07X9	Tumble Vessel	B	NA		5.2	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2230548
Report Date: 06/24/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2230548-08A	Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-08B	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-09A	Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		TS(7),NJ-PAH(14)
L2230548-09B	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		TS(7),NJ-PAH(14)
L2230548-09X	Plastic 250ml HNO3 preserved Extracts	A	NA		3.8	Y	Absent		HG-P(28)
L2230548-09X9	Tumble Vessel	A	NA		3.8	Y	Absent		-
L2230548-10A	Glass 60mL/2oz unpreserved	B	NA		5.2	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-10B	Glass 250ml/8oz unpreserved	B	NA		5.2	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-11A	Glass 60mL/2oz unpreserved	B	NA		5.2	Y	Absent		TS(7),NJ-PAH(14)
L2230548-11B	Glass 250ml/8oz unpreserved	B	NA		5.2	Y	Absent		TS(7),NJ-PAH(14)
L2230548-11X	Plastic 250ml HNO3 preserved Extracts	B	NA		5.2	Y	Absent		HG-P(28)
L2230548-11X9	Tumble Vessel	B	NA		5.2	Y	Absent		-
L2230548-12A	Glass 60mL/2oz unpreserved	B	NA		5.2	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-12B	Glass 250ml/8oz unpreserved	B	NA		5.2	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-13A	Glass 60mL/2oz unpreserved	B	NA		5.2	Y	Absent		TS(7),NJ-PAH(14)
L2230548-13B	Glass 250ml/8oz unpreserved	B	NA		5.2	Y	Absent		TS(7),NJ-PAH(14)
L2230548-13X	Plastic 250ml HNO3 preserved Extracts	B	NA		5.2	Y	Absent		HG-P(28)
L2230548-13X9	Tumble Vessel	B	NA		5.2	Y	Absent		-
L2230548-14A	Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		TS(7),NJ-PAH(14)
L2230548-14B	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		TS(7),NJ-PAH(14)
L2230548-14X	Plastic 250ml HNO3 preserved Extracts	A	NA		3.8	Y	Absent		HG-P(28)
L2230548-14X9	Tumble Vessel	A	NA		3.8	Y	Absent		-
L2230548-15A	Glass 60mL/2oz unpreserved	B	NA		5.2	Y	Absent		TS(7),NJ-PAH(14)
L2230548-15B	Glass 250ml/8oz unpreserved	B	NA		5.2	Y	Absent		TS(7),NJ-PAH(14)
L2230548-15X	Plastic 250ml HNO3 preserved Extracts	B	NA		5.2	Y	Absent		HG-P(28)
L2230548-15X9	Tumble Vessel	B	NA		5.2	Y	Absent		-
L2230548-16A	Glass 60mL/2oz unpreserved	B	NA		5.2	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-16B	Glass 250ml/8oz unpreserved	B	NA		5.2	Y	Absent		HOLD-CONTINGENCY(14)

*Values in parentheses indicate holding time in days

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2230548
Report Date: 06/24/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2230548-17A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-17B	Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-18A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2230548-18B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		PB-TI(180)
L2230548-19A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-19B	Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-20A	Plastic 2oz unpreserved for TS	B	NA		5.2	Y	Absent		TS(7)
L2230548-20B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.2	Y	Absent		PB-TI(180)
L2230548-21A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2230548-21B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		PB-TI(180)
L2230548-22A	Plastic 2oz unpreserved for TS	B	NA		5.2	Y	Absent		TS(7)
L2230548-22B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.2	Y	Absent		PB-TI(180)
L2230548-23A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-23B	Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-24A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2230548-24B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		PB-TI(180)
L2230548-25A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-25B	Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-26A	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-27A	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		TS(7),NJ-PAH(14)
L2230548-28A	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		TS(7),NJ-PAH(14)
L2230548-29A	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-30A	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		TS(7),NJ-PAH(14)
L2230548-31A	Glass 120ml/4oz unpreserved	B	NA		5.2	Y	Absent		TS(7),NJ-PAH(14)
L2230548-32A	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14)
L2230548-33A	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		TS(7),NJ-PAH(14)

*Values in parentheses indicate holding time in days

Project Name:	CRA RELIABLE TIRE	**Lab Number:**	L2230548
Project Number:	20-763	**Report Date:**	06/24/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	CRA RELIABLE TIRE	**Lab Number:**	L2230548
Project Number:	20-763	**Report Date:**	06/24/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	CRA RELIABLE TIRE	**Lab Number:**	L2230548
Project Number:	20-763	**Report Date:**	06/24/22

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	CRA RELIABLE TIRE	**Lab Number:**	L2230548
Project Number:	20-763	**Report Date:**	06/24/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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Date Rec'd in Lab: 6/10/22

ALPHA Job #: L2230548

Client Information
Client: TTI Environmental
Address: 1253 N. Church St. Moorestown, NJ
Phone: 609-923-4451
Fax: 856-840-8815
Email: alech@ttienv.com

Project Information
Project Name: CRA Reliable Tire
Project Location: Camden, NJ
Project # 20-763
(Use Project name as Project #) ☐
Project Manager: Alec Halbruner
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☒ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☒ SRS Residential/Non Residential
☒ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☒ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☒ Same as Client Info
PO # TBD

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:

Please specify Metals or TAL.
Hg: Mercury

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Hold	Hg, SPLP	Benzo(a)Pyrene	Lead	Sample Specific Comments	Total Bottle
30548 -01	ADC 2-2-E2@11.5-12	6/9/22	0912	SS	AH	X					
-02	ADC 2-2E1-S@ 11.5-12		0927				X				
-03	ADC 2-2E1-D@ 14.5-15		0925				X				
-04	ADC 2-2-S2 @ 11.5-12		0932			X					
-05	ADC 2-2-S1 @ 11.5-12		0939				X				
-06	ADC 2-2-W2@ 11.5-12		0946			X					
-07	ADC 2-2-W1@ 11.5-12		0952				X				
-08	ADC 9-1-W2 @ 0-0.5		1005			X					
-09	ADC 9-1-W1 @ 0-0.5		1007				X	X			
-10	ADC 9-1-N2 @ 0-0.5	↓	1010	↓	↓	X					

Container Type: | | GA | GA | GA | | | | |
Preservative: | | | | | | | | |

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6/9/22 1441		6/9/22 1441
	6/9/22 1632		6/9/22 1632
	6/9/22 1730		6/9/22 2100
	6/9/22		6/10/22 0048
	6/10/22 0253		6/10/22 0255

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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Date Rec'd in Lab: 6/10/22

ALPHA Job #: L2230548

Client Information
Client: TTL Environmental
Address: 1253 N Church St. Moorestown, NJ
Phone: 609-923-4451
Fax: 856-540-8815
Email: alec.halbruner@ttlenv.com

Project Information
Project Name: CRA Reliable Tire
Project Location: Camden, NJ
Project #: 20-763
(Use Project name as Project #): ☐
Project Manager: Alec Halbruner
ALPHAQuote #:

Turn-Around Time
Standard: ☒ Due Date:
Rush (only if pre approved): ☐ # of Days:

Deliverables
☒ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☒ SRS Residential/Non Residential
☒ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☒ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☒ Same as Client Info
PO #: TBD

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Hold	Hg, SPLP	Perm (a) Aztec	Lead	Total Bottle	Sample Specific Comments
30548-11	ADC9-1-N1@0-0.5	6/9/22	1014	SS	AH		X	X			
-12	ADC9-1-E1@0-0.5		1019			X					
-13	ADC9-1-E1-S@0-0.5		1022				X	X			
-14	ADC9-1-E1-D@4.5-5.0		1023				X	X			
-15	ADC9-1-S1@0-0.5		1026				X	X			
-16	ADC9-1-S2@0-0.5		1030			X					
-17 AH	ADC TP-6-W2@3-3.5		1043			X					
-18	TP-6-W1@3-3.5		1046						X		
-19	TP-6-S2@3-3.5		1050			X					
-20	TP-6-S1@3-3.5		1054						X		

Container Type: 6A 6A 6A
Preservative:

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6/9/22 1448		6/9/22 1447
	6/9/22 1630		6/9/22 1630
	6/9/22 2130		6/9/22 2130
	6/9/22		6/10/22 0855
	6/10/22 0855		6/10/22 0855

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 3 of 34

Date Rec'd in Lab: 6/10/22

ALPHA Job #: L2230548

Client Information

Client: TTI Environmental
Address: 1253 N. Church St. Moorestown, NJ
Phone: 609-923-4451
Fax: 856-840-9815
Email: mech@ttienv.com

Project Information

Project Name: CRA Reliable Tire
Project Location: Camden, NJ
Project #: 20-763
(Use Project name as Project #): ☐
Project Manager: Alec Halbrumer
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☒ NJ Full / (Reduced)
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☒ SRS Residential/Non Residential
☒ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☒ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information

☒ Same as Client Info
PO # TBD

Site Information

Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED: ☐ Category 1 ☐ Category 2

For VOC, selection is REQUIRED: ☐ 1,4-Dioxane ☐ 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

Hg: Mercury

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Hold	Hg, SPLP	Benzo (a) Pyrene	Lead	Sample Specific Comments
30548-21	TP-6-E1-S@3-3.5	6/9/22	1057	SS	AH				X	
-22	TP-6-E1-D@4.5-5.0		1059						X	
-23	TP-6-E2@3-3.5		1105			X				
-24	TP-6-N1@3-3.5		1115						X	
-25	TP-6-N2@3-3.5		1119			X				
-26	TP-4-W2@0.5-1		1132			X				
-27	TP-4-W1@0.5-1		1135					X		
-28	TP-4-S1@0.5-1		1138					X		
-29	TP-4-S2@0.5-1		1142			X				
-30	TP-4-E1-S@0.5-1							X		

Container Type: 6A 6A 6A
Preservative:

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6/9/22 1448		6/9/22 1448
	6/9/22 1630		6-9-22 1830
	6/9/22 2130		6/9/22 2130
	6/9/22		6/10/22 0045
	6/10/22 0255		6/10/22 0255

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 4 of 4

Date Rec'd in Lab: 6/10/22

ALPHA Job #: L2230548

Client Information
Client: TTI Environmental
Address: 1253 N. Church St. Moorestown, NJ
Phone: 609-923-4451
Fax: 856-840-8815
Email: alech@tienv.com

Project Information
Project Name: CRA Reliable Tire
Project Location: Camden, NJ
Project # 20-763
(Use Project name as Project #) ☐
Project Manager: Alec Halbruner
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☒ NJ Full (Reduced)
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☒ SRS Residential/Non Residential
☒ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☒ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☒ Same as Client Info
PO # TBD

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Hold	Hg, SPLP	Benzo(a) Pyrene	Lead	Total Bottle	Sample Specific Comments
30548-31	TP-4-E1-D @ 4.5-5	6/9/22	1146	SS	AH			X			
-32	TP-4-E2 @ 0.5-1		1149			X					
-33	TP-4-N1 @ 0.5-1		1153					X			

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	6A	6A	6A	6A					
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	6/9/22 1445		6/9/22 1445
	6/9/22 2100		6-9-22 2100
	6/9/22 2130		6/9/22 2130
	6/9/22		6/9/22 2130

6/10/22 0255

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2228898
Client:	TTI Environmental, Inc. 1253 North Church Street Moorestown, NJ 08057
ATTN:	Alec Halbruner
Phone:	(856) 840-8800
Project Name:	RELIABLE TIRE
Project Number:	20-763
Report Date:	06/30/22

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: RELIABLE TIRE
Project Number: 20-763

Lab Number: L2228898
Report Date: 06/30/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2228898-01	P-1	OIL	CAMDEN, NJ	06/02/22 08:40	06/02/22
L2228898-02	P-2	OIL	CAMDEN, NJ	06/02/22 09:05	06/02/22

Project Name: RELIABLE TIRE
Project Number: 20-763

Lab Number: L2228898
Report Date: 06/30/22

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	YES
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	NO

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name:	RELIABLE TIRE	**Lab Number:**	L2228898
Project Number:	20-763	**Report Date:**	06/30/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: RELIABLE TIRE **Lab Number:** L2228898
Project Number: 20-763 **Report Date:** 06/30/22

Case Narrative (continued)

Report Submission
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives
Report Submission
In reference to question 5a:
Reporting limits were not specified.

Non DKQP Related Narratives
Petroleum Hydrocarbon Identification by GC-FID
L2228898-01 and -02: The sample was extracted and then analyzed using a gas chromatograph equipped with a flame ionization detector (GC/FID). The temperature program and associated experimental conditions were optimized to obtain maximum resolution in an eighty minute chromatographic run representative of hydrocarbons in the n-Octane (C8) to n-Tetracontane (C40) range. Qualitative evaluation of the sample was conducted by reviewing the sample chromatogram in conjunction with a chromatogram of a normal alkane series generated with the same chromatographic conditions. Chromatograms of hydrocarbon reference materials obtained from our library of 82 reference standards were also utilized to provide the best possible sample match. Quantitative determination of the sample's hydrocarbon concentration was performed in accordance with EPA Method 8015M. The sample's total hydrocarbon concentration and all associated quality control data are included in the report.
The following qualitative information is based on a tentative interpretation of chromatographic pattern recognition and boiling point ranges:
Total Petroleum Hydrocarbon Identification
L2228898-01 contains hydrocarbons eluting in the range of n-Octane (C8) to after the elution of n-Tetratriacontane (C34).
Based on the data generated, L2228898-01 contains a combination of materials eluting in the low to heavy

Project Name: RELIABLE TIRE **Lab Number:** L2228898
Project Number: 20-763 **Report Date:** 06/30/22

Case Narrative (continued)

weight ranges of the chromatogram. The materials present are similar to Fuel Oil #2 and Fuel Oil #6.
L2228898-02 contains hydrocarbons eluting in the range of n-Octane (C8) to after the elution of n-Octacosane (C28).
Based on the data generated, L2228898-02 contains a material eluting in the low to mid weight range of the chromatogram. The material present is similar to weathered Fuel Oil #2/Diesel Fuel.
In an analysis of an undegraded product the n-alkanes are typically the dominant constituents, as seen in the petroleum reference chromatogram. As the product deteriorates, the n-alkanes are preferentially degraded, leaving behind other constituents such as isoprenoids. The analytical testing of the sample identified a pattern of isoprenoids. The level of alkanes and their ratios to the isoprenoids present indicates that the fuel oil has undergone degradation.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 06/30/22

ORGANICS

PETROLEUM HYDROCARBONS

Project Name: RELIABLE TIRE
Project Number: 20-763
Lab Number: L2228898
Report Date: 06/30/22

SAMPLE RESULTS

Lab ID: L2228898-01
Client ID: P-1
Sample Location: CAMDEN, NJ

Date Collected: 06/02/22 08:40
Date Received: 06/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8015D(M)
Analytical Date: 06/16/22 16:11
Analyst: WR
Percent Solids:

Extraction Method: EPA 3580A
Extraction Date: 06/14/22 14:50

Results reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	893000		mg/kg	5560	2780	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	109		50-130
d50-Tetracosane	119		50-130

Project Name: RELIABLE TIRE
Project Number: 20-763
Lab Number: L2228898
Report Date: 06/30/22

SAMPLE RESULTS

Lab ID: L2228898-02
Client ID: P-2
Sample Location: CAMDEN, NJ

Date Collected: 06/02/22 09:05
Date Received: 06/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8015D(M)
Analytical Date: 06/16/22 17:39
Analyst: WR
Percent Solids:

Extraction Method: EPA 3580A
Extraction Date: 06/14/22 14:50

Results reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	872000		mg/kg	6390	3190	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	107		50-130
d50-Tetracosane	102		50-130

Project Name: RELIABLE TIRE
Project Number: 20-763

Lab Number: L2228898
Report Date: 06/30/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 06/15/22 18:12
Analyst: WR

Extraction Method: EPA 3580A
Extraction Date: 06/14/22 14:50

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab for sample(s): 01-02 Batch: WG1650364-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	6600	3300

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	101		50-130
d50-Tetracosane	100		50-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RELIABLE TIRE

Project Number: 20-763

Lab Number: L2228898

Report Date: 06/30/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 01-02 Batch: WG1650364-2 WG1650364-3								
Nonane (C9)	90		94		50-130	4		30
Decane (C10)	95		95		50-130	0		30
Dodecane (C12)	102		101		50-130	1		30
Tetradecane (C14)	99		99		50-130	0		30
Hexadecane (C16)	106		106		50-130	0		30
Octadecane (C18)	107		107		50-130	0		30
Nonadecane (C19)	99		100		50-130	1		30
Eicosane (C20)	98		100		50-130	2		30
Docosane (C22)	100		102		50-130	2		30
Tetracosane (C24)	108		111		50-130	3		30
Hexacosane (C26)	102		105		50-130	3		30
Octacosane (C28)	102		105		50-130	3		30
Triacontane (C30)	102		106		50-130	4		30
Hexatriacontane (C36)	92		98		50-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	103		102		50-130
d50-Tetracosane	102		103		50-130

Project Name: RELIABLE TIRE
Project Number: 20-763

Lab Number: L2228898
Report Date: 06/30/22

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	*Custody Seal*
A	Absent

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L2228898-01A	Amber 1000ml unpreserved	A	NA		3.5	Y	Absent		A2-PHI(365)
L2228898-01B	Amber 1000ml unpreserved	A	NA		3.5	Y	Absent		A2-PHI(365)
L2228898-02A	Amber 1000ml unpreserved	A	NA		3.5	Y	Absent		A2-PHI(365)
L2228898-02B	Amber 1000ml unpreserved	A	NA		3.5	Y	Absent		A2-PHI(365)

*Values in parentheses indicate holding time in days

Project Name:	RELIABLE TIRE	**Lab Number:**	L2228898
Project Number:	20-763	**Report Date:**	06/30/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RELIABLE TIRE	**Lab Number:**	L2228898
Project Number:	20-763	**Report Date:**	06/30/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	RELIABLE TIRE	**Lab Number:**	L2228898
Project Number:	20-763	**Report Date:**	06/30/22

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	RELIABLE TIRE	**Lab Number:**	L2228898
Project Number:	20-763	**Report Date:**	06/30/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page [ ] of [ ]

Date Rec'd in Lab: 6/3/22

ALPHA Job #: L2228898

Client Information
Client: TTI Environmental
Address: 1253 N. Church St
Moorestown, NJ
Phone: 609-923-1445
Fax: 856-840-8815
Email: rich@tienv.com

Project Information
Project Name: ~~Tom~~ Reliable Tire
Project Location: Camden, NJ
Project #: 20-763
(Use Project name as Project #) ☐
Project Manager: Alex Halbower
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☒ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☒ Same as Client Info
PO # TBD

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS
Petro, Flash Point

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Petro	Flash Point	Sample Specific Comments
28898-01	P-1	6/2/22	0840	GW	AH	X	X	
-02	P-2	6/2/22	0905	GW	AH	X	X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
I = Zn Ac/NaOH
J = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

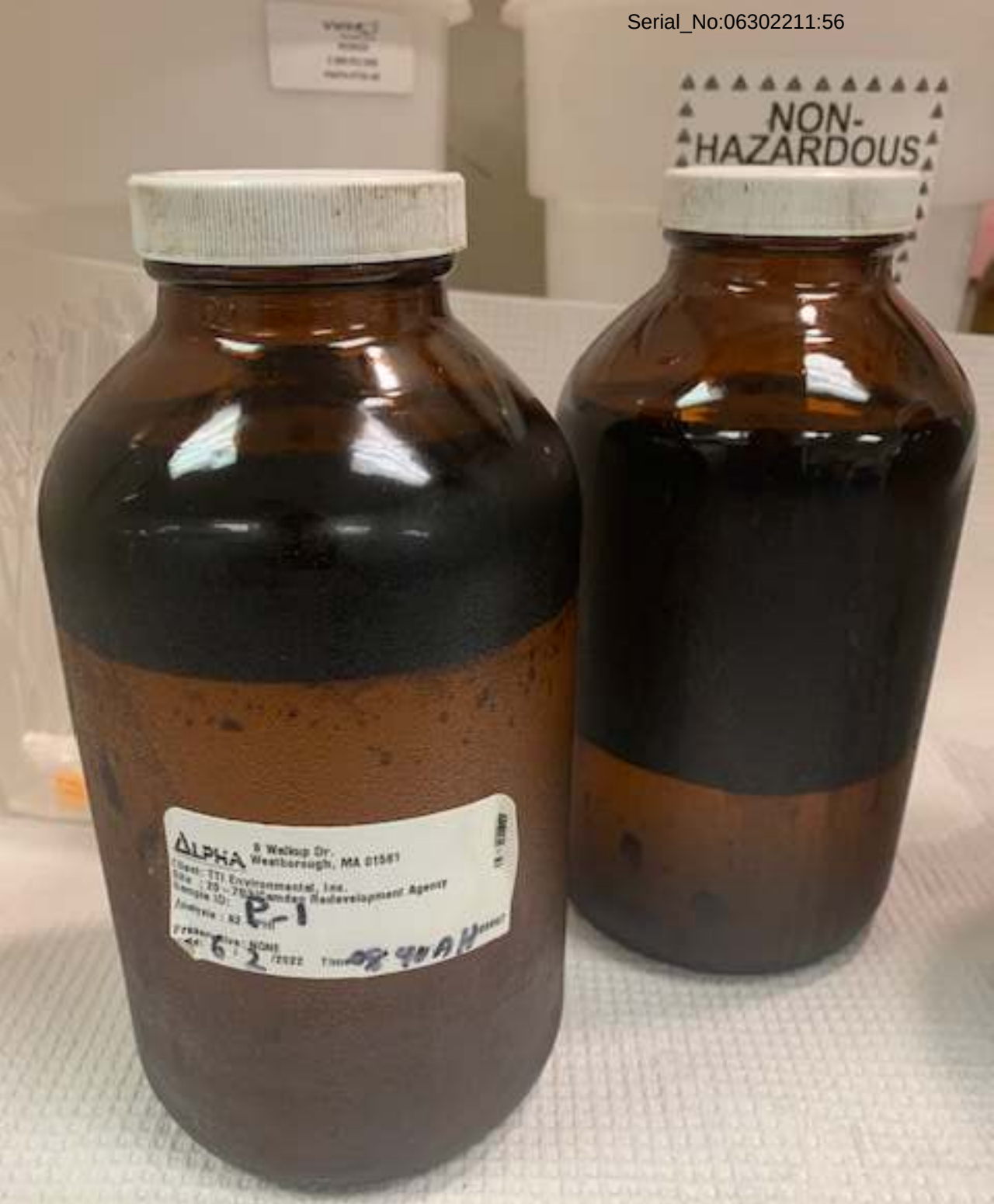
Westboro: Certification No: MA935
Mansfield: Certification No: MA015

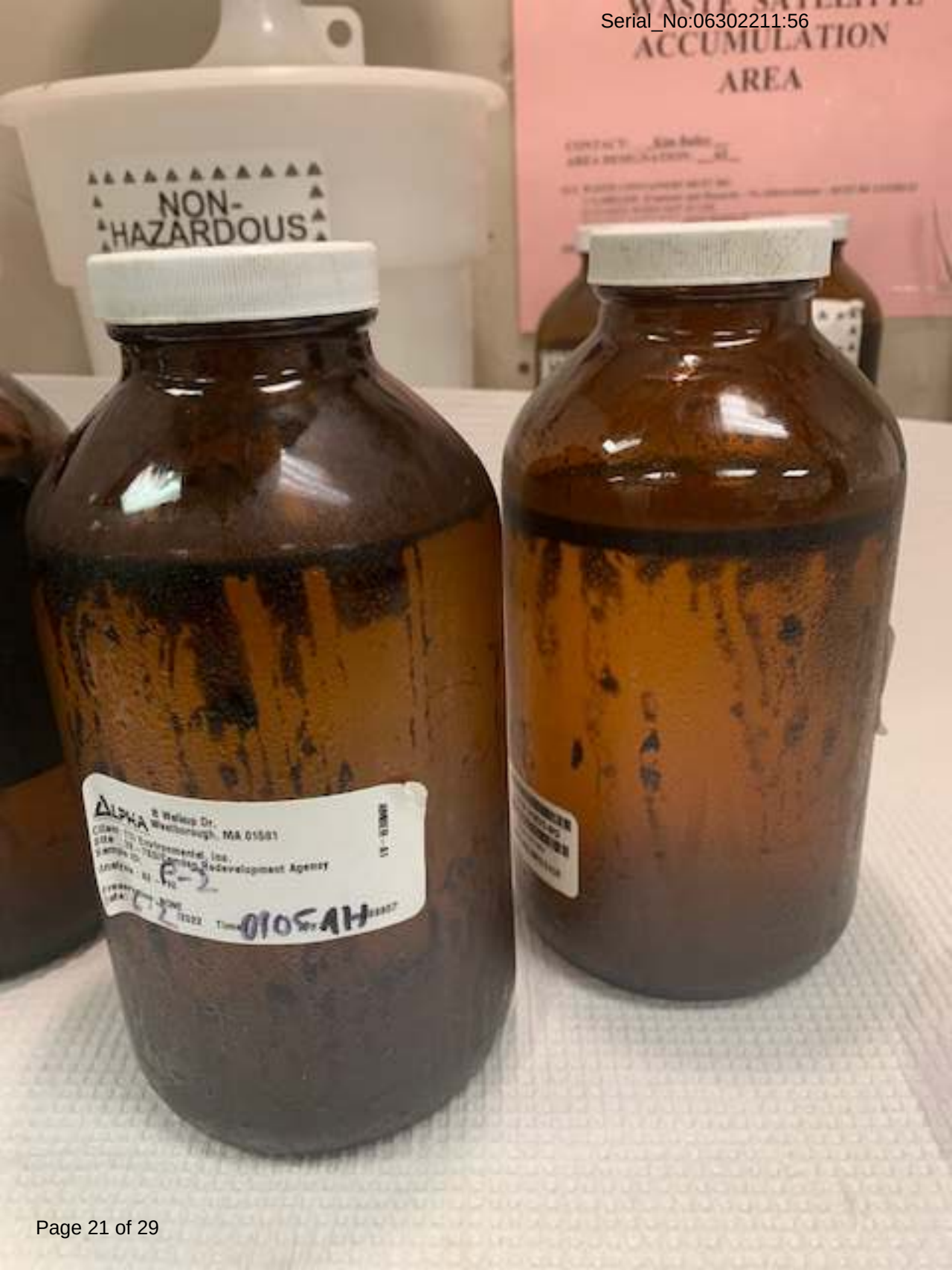
Container Type													
Preservative													

Relinquished By:	Date/Time	Received By:	Date/Time
	6/2/22 1300	AH	6-2-22 1300
AH	6-2-22 1700		6-2-22 1700
Anthony Jones	6/2/22 2100	Anthony Jones	6/2/22 2100
Anthony Jones	6/2/22	AC	6/3/22 0045
		AC	6/3/22 0253
			6/3/22 0255

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)


NON-
HAZARDOUS
ALPHA
8 Walkup Dr.
Westborough, MA 01581
P-1


NON-
HAZARDOUS
ACCUMULATION
AREA
ALPHA
Redevelopment Agency

GC-FID Chromatogram

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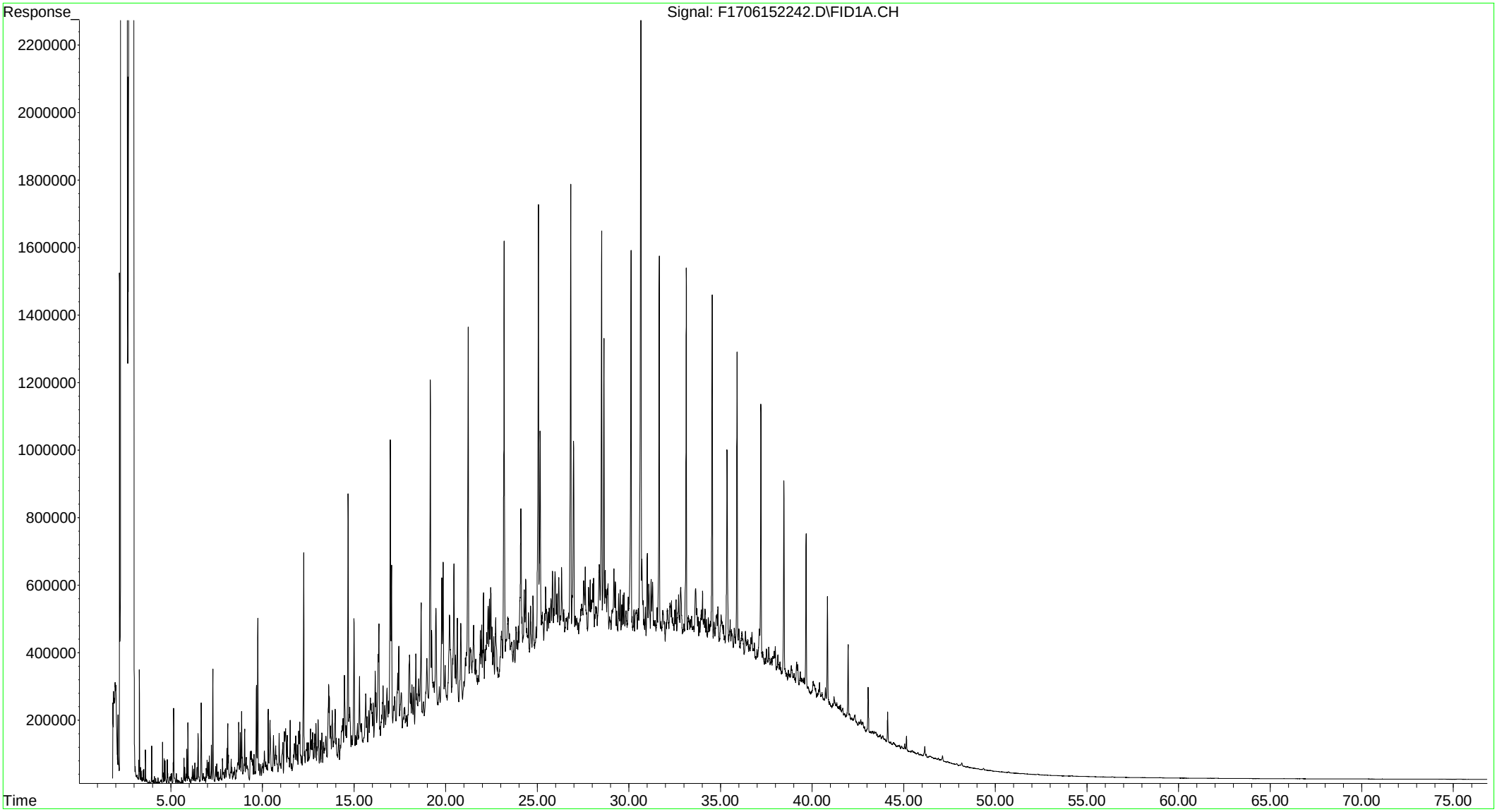
Operator : FID17:WR
Acquired : 16 Jun 2022 4:11 pm using AcqMethod FID17A.M
Instrument : FID17
Sample Name: L2228898-01,42,,
Misc Info : WG1651053,WG1650364,ICAL18753
Vial Number: 21



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Instrument : FID17
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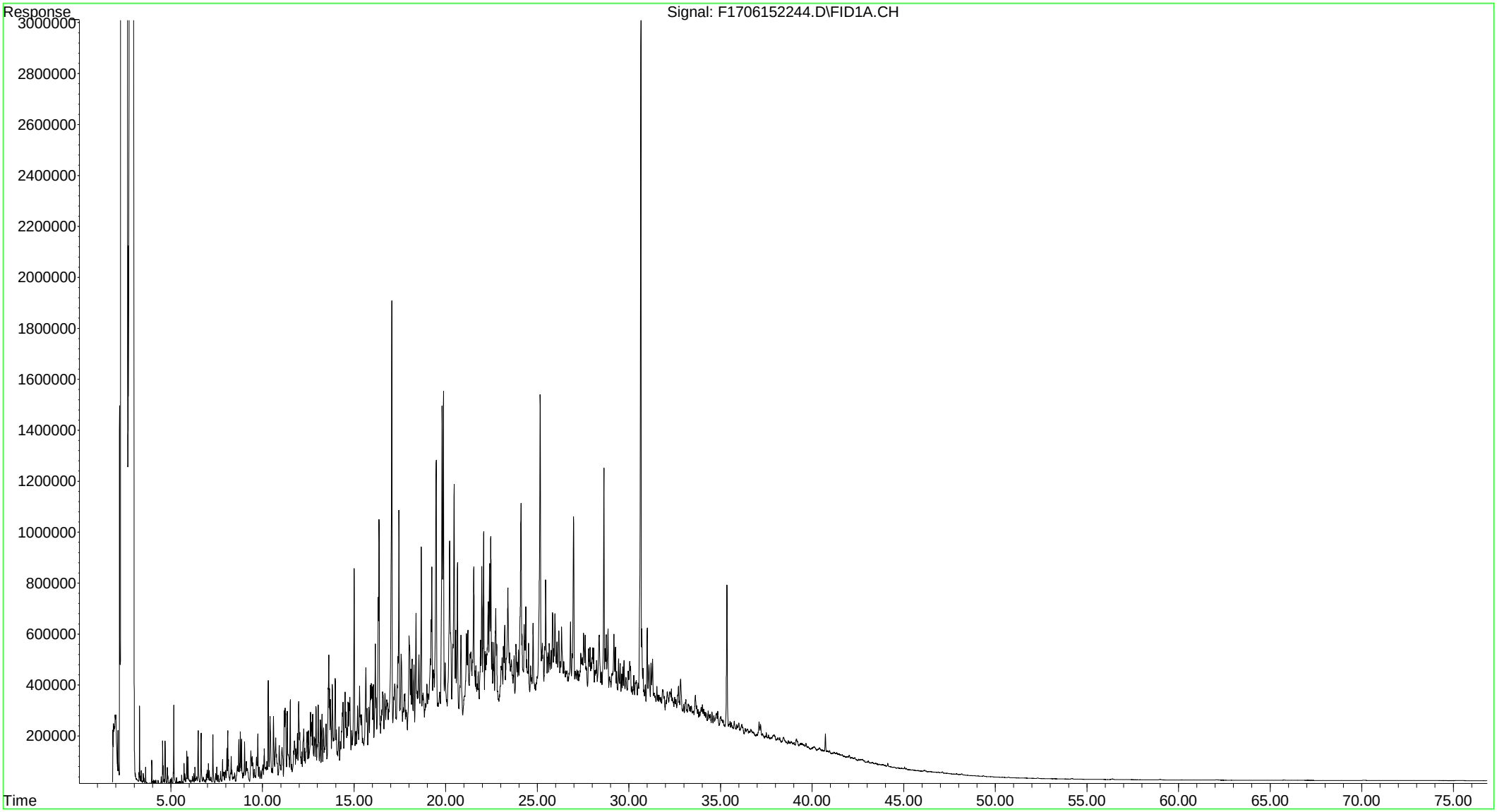
Misc Info : WG1651053,WG1650364,ICAL18753
Vial Number: 22



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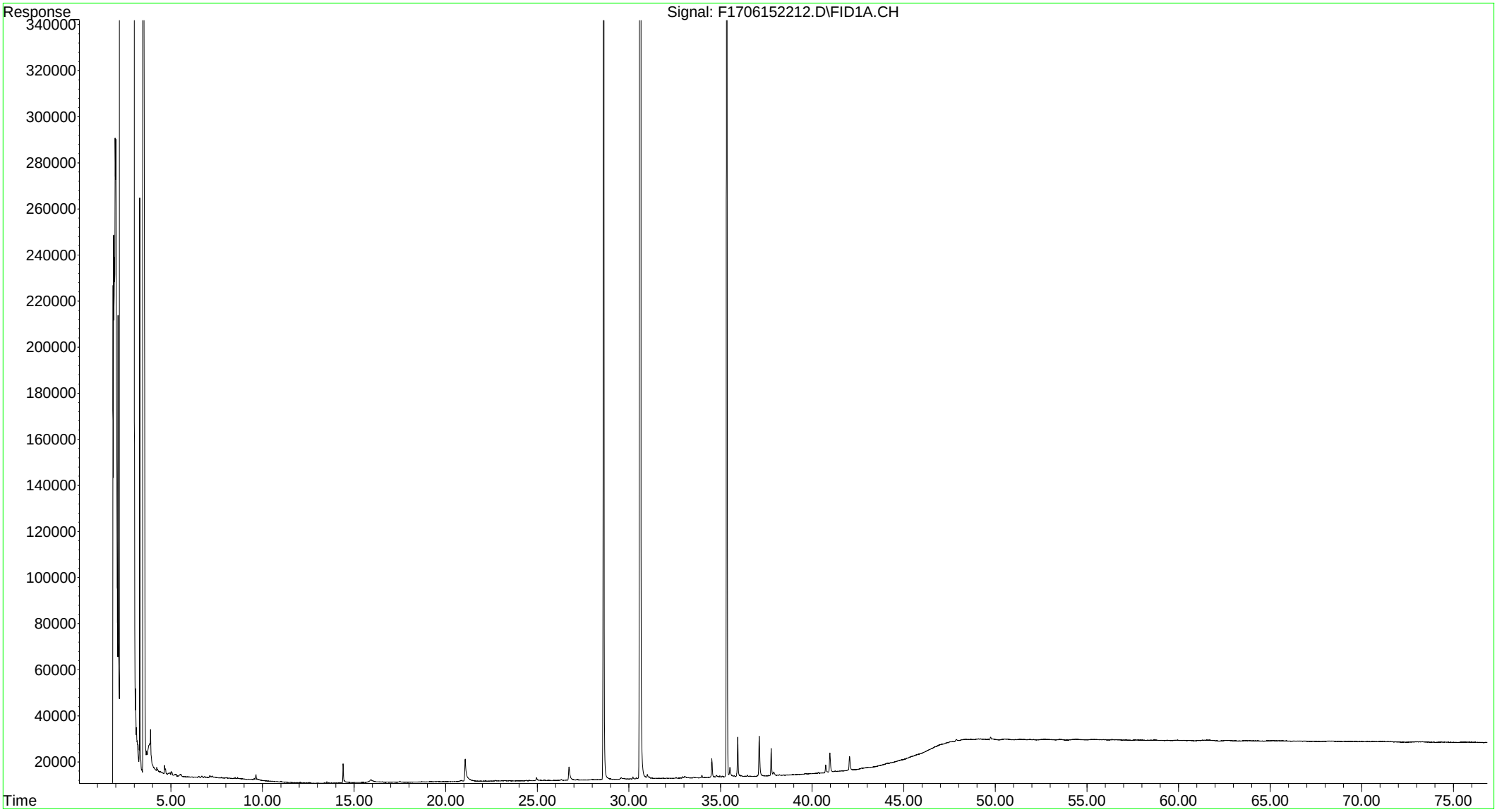
Vial Number: 6



Petroleum Reference Standards

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...         FUEL #2.D
Operator  : PAH2:AC
Instrument :   PAH 2
Acquired  : 18 Nov 2011   8:19 pm using AcqMethod FRNC2AF.M
Sample    : #2 DIESEL FUEL
Misc Info : F050410A
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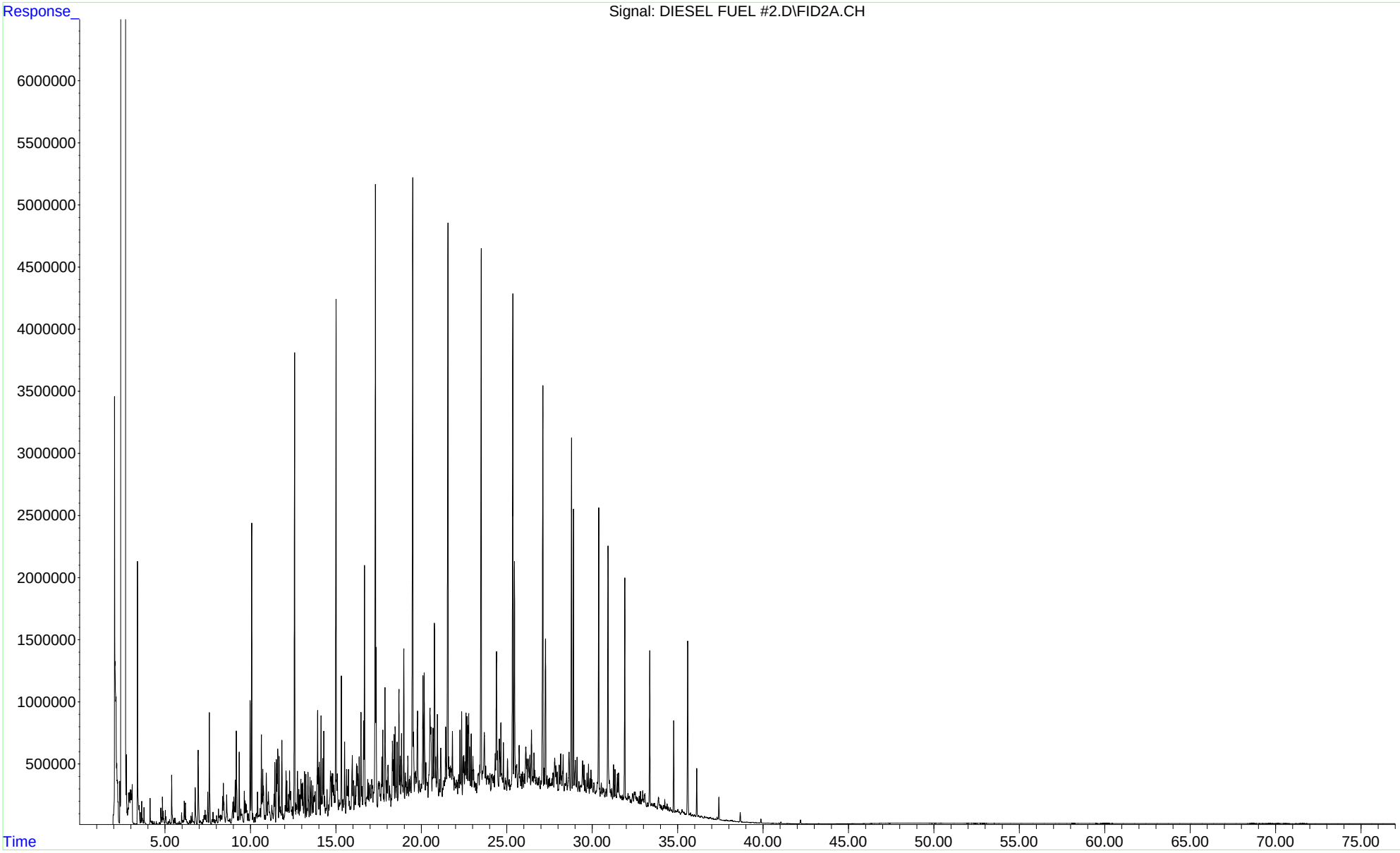

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... l #6.D
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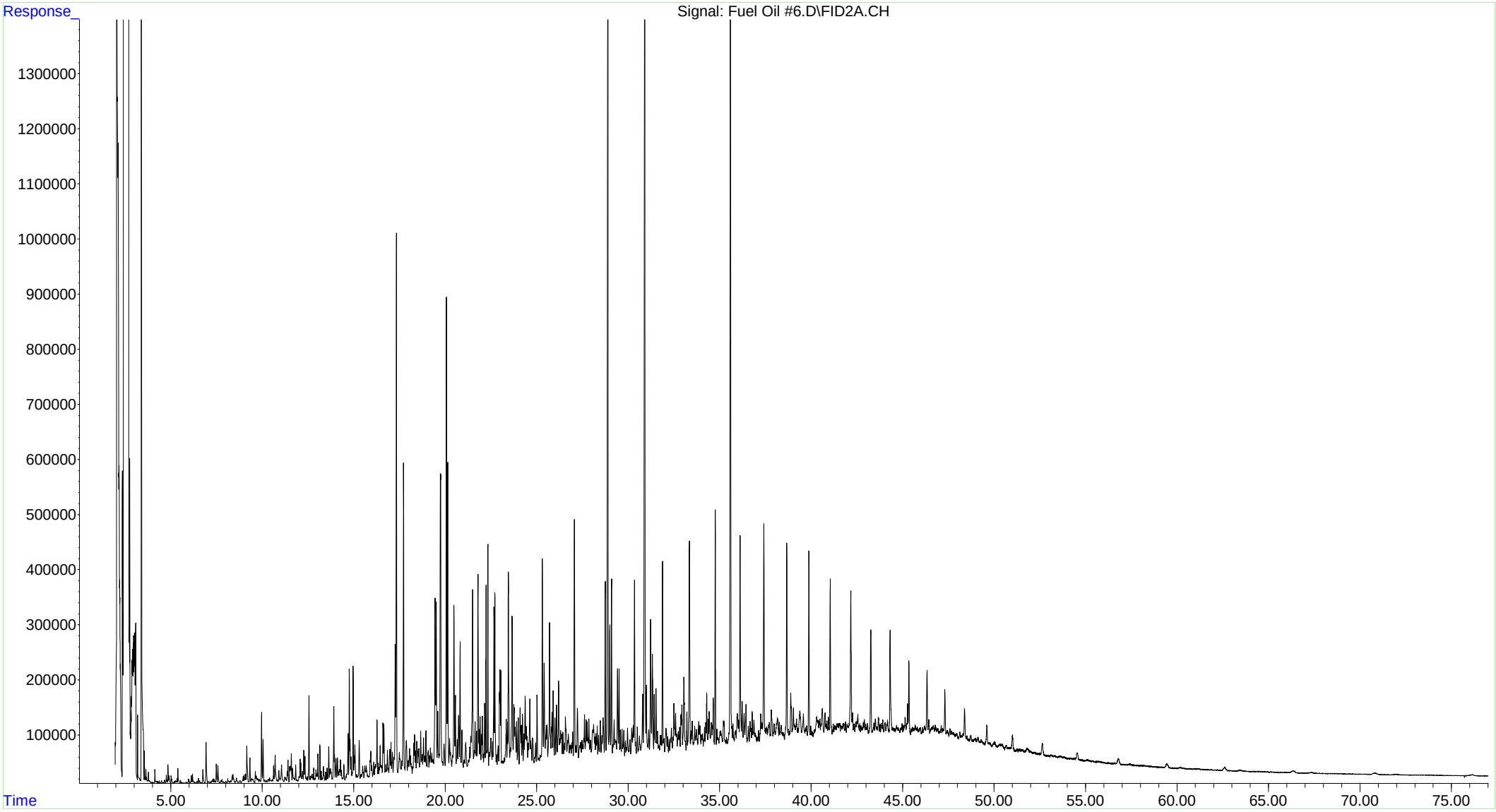
Instrument : PAH 2
Acquired : 22 Nov 2011 7:50 am using AcqMethod FRNC2AF.M
Sample : FUEL OIL #6
Misc Info : 1X F042710F



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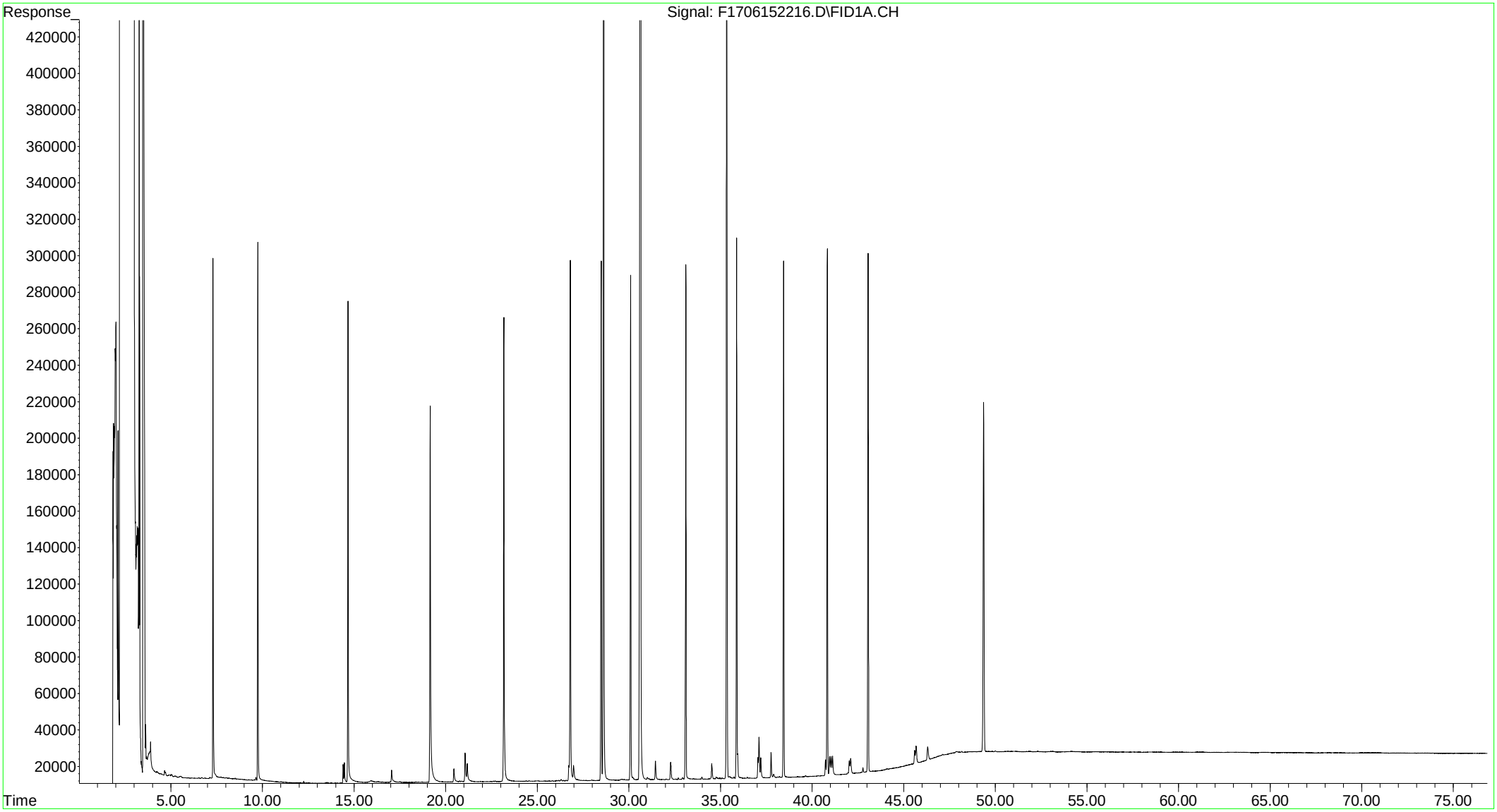
Instrument : FID17
Sample Name: WG1650361-2,42,,
Misc Info : WG1651053,WG1650361,ICAL18753
Vial Number: 8



ANALYTICAL REPORT

Lab Number:	L2234118
Client:	TTI Environmental, Inc. 1253 North Church Street Moorestown, NJ 08057
ATTN:	Alec Halbruner
Phone:	(856) 840-8800
Project Name:	CRA RELIABLE TIRE
Project Number:	20-763
Report Date:	07/05/22

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2234118
Report Date: 07/05/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2234118-01	AOC 9-1-W2@0-0.5	SOIL	CAMDEN, NJ	06/09/22 10:05	06/09/22
L2234118-02	AOC 9-1-S2@0-0.5	SOIL	CAMDEN, NJ	06/09/22 10:30	06/09/22
L2234118-03	TP-6-W2@3-3.5	SOIL	CAMDEN, NJ	06/09/22 10:43	06/09/22
L2234118-04	TP-6-S2@3-3.5	SOIL	CAMDEN, NJ	06/09/22 10:50	06/09/22
L2234118-05	TP-6-N2@3-3.5	SOIL	CAMDEN, NJ	06/09/22 11:19	06/09/22

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2234118
Report Date: 07/05/22

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	NO
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	YES
5b	Were these reporting limits met?	YES
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	NO

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name:	CRA RELIABLE TIRE	**Lab Number:**	L2234118
Project Number:	20-763	**Report Date:**	07/05/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2234118
Report Date: 07/05/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Semivolatile Organics

In reference to question 1a:

L2234118-01 and -02: The sample was extracted with the method required holding time exceeded.

In reference to question 4:

L2234118-01: One or more surrogates failed to meet the DKQP recovery limits. Please refer to the sample results and/or QC section of the report for specific details.

WG1656589-2/-3: One or more compounds failed to meet the DKQP recovery and/or RPD limits. Difficult analytes may recover at less than 10% recovery, where applicable. Please refer to the QC section of the report for specific details.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Caitlin Walukevich

Title: Technical Director/Representative

Date: 07/05/22

ORGANICS

SEMIVOLATILES

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2234118
Report Date: 07/05/22

SAMPLE RESULTS

Lab ID: L2234118-01
Client ID: AOC 9-1-W2@0-0.5
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 10:05
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 06/30/22 05:11
Analyst: WR
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 06/29/22 08:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	1.4		mg/kg	0.15	0.050	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	**133**	Q	30-130
2-Fluorobiphenyl	59		30-130
4-Terphenyl-d14	50		30-130

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2234118
Report Date: 07/05/22

SAMPLE RESULTS

Lab ID: L2234118-02
Client ID: AOC 9-1-S2@0-0.5
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 10:30
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 06/30/22 04:48
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 06/29/22 08:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	0.087	J	mg/kg	0.13	0.043	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	105		30-130
2-Fluorobiphenyl	52		30-130
4-Terphenyl-d14	56		30-130

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2234118
Report Date: 07/05/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 06/29/22 09:52
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 06/28/22 22:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1656589-1					
Benzo(a)pyrene	ND		mg/kg	0.12	0.040

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		30-130
Phenol-d6	70		30-130
Nitrobenzene-d5	63		30-130
2-Fluorobiphenyl	73		30-130
2,4,6-Tribromophenol	82		30-130
4-Terphenyl-d14	76		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CRA RELIABLE TIRE

Project Number: 20-763

Lab Number: L2234118

Report Date: 07/05/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1656589-2 WG1656589-3								
Benzo(a)pyrene	**62**	Q	**58**	Q	70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		55		30-130
Phenol-d6	57		53		30-130
Nitrobenzene-d5	52		49		30-130
2-Fluorobiphenyl	61		57		30-130
2,4,6-Tribromophenol	67		64		30-130
4-Terphenyl-d14	60		57		30-130

METALS

Project Name: CRA RELIABLE TIRE
Lab Number: L2234118
Project Number: 20-763
Report Date: 07/05/22

SAMPLE RESULTS

Lab ID: L2234118-03
Client ID: TP-6-W2@3-3.5
Sample Location: CAMDEN, NJ
Date Collected: 06/09/22 10:43
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	47.6		mg/kg	2.08	0.112	1	06/29/22 07:55	06/29/22 17:02	EPA 3050B	1,6010D	NB

Project Name: CRA RELIABLE TIRE
Lab Number: L2234118
Project Number: 20-763
Report Date: 07/05/22

SAMPLE RESULTS

Lab ID: L2234118-04
Client ID: TP-6-S2@3-3.5
Sample Location: CAMDEN, NJ
Date Collected: 06/09/22 10:50
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	22.6		mg/kg	2.14	0.115	1	06/29/22 07:55	06/29/22 17:16	EPA 3050B	1,6010D	NB

Project Name: CRA RELIABLE TIRE
Lab Number: L2234118
Project Number: 20-763
Report Date: 07/05/22

SAMPLE RESULTS

Lab ID: L2234118-05
Client ID: TP-6-N2@3-3.5
Sample Location: CAMDEN, NJ
Date Collected: 06/09/22 11:19
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	3.18		mg/kg	2.06	0.110	1	06/29/22 07:55	06/29/22 17:20	EPA 3050B	1,6010D	NB

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2234118
Report Date: 07/05/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03-05 Batch: WG1656680-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	06/29/22 07:55	06/29/22 15:26	1,6010D	NB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: CRA RELIABLE TIRE

Project Number: 20-763

Lab Number: L2234118

Report Date: 07/05/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-05 Batch: WG1656680-2 SRM Lot Number: D113-540								
Lead, Total	93		-		72-128	-		

INORGANICS
&
MISCELLANEOUS

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2234118
Report Date: 07/05/22

SAMPLE RESULTS

Lab ID: L2234118-01
Client ID: AOC 9-1-W2@0-0.5
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 10:05
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.7		%	0.100	NA	1	-	06/28/22 12:51	121,2540G	RI

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2234118
Report Date: 07/05/22

SAMPLE RESULTS

Lab ID: L2234118-02
Client ID: AOC 9-1-S2@0-0.5
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 10:30
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	06/28/22 12:51	121,2540G	RI

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2234118
Report Date: 07/05/22

SAMPLE RESULTS

Lab ID: L2234118-03
Client ID: TP-6-W2@3-3.5
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil
Date Collected: 06/09/22 10:43
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.4		%	0.100	NA	1	-	06/28/22 12:51	121,2540G	RI

Project Name: CRA RELIABLE TIRE
Project Number: 20-763
Lab Number: L2234118
Report Date: 07/05/22

SAMPLE RESULTS

Lab ID: L2234118-04
Client ID: TP-6-S2@3-3.5
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 06/09/22 10:50
Date Received: 06/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	06/28/22 12:51	121,2540G	RI

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2234118
Report Date: 07/05/22

SAMPLE RESULTS

Lab ID: L2234118-05
Client ID: TP-6-N2@3-3.5
Sample Location: CAMDEN, NJ

Date Collected: 06/09/22 11:19
Date Received: 06/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.5		%	0.100	NA	1	-	06/28/22 12:51	121,2540G	RI

Project Name: CRA RELIABLE TIRE
Project Number: 20-763

Lab Number: L2234118
Report Date: 07/05/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2234118-01B	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		TS(7),NJ-PAH(14)
L2234118-02B	Glass 250ml/8oz unpreserved	B	NA		5.2	Y	Absent		TS(7),NJ-PAH(14)
L2234118-03A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2234118-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		PB-TI(180)
L2234118-04A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2234118-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		PB-TI(180)
L2234118-05A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2234118-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	CRA RELIABLE TIRE	**Lab Number:**	L2234118
Project Number:	20-763	**Report Date:**	07/05/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	CRA RELIABLE TIRE	**Lab Number:**	L2234118
Project Number:	20-763	**Report Date:**	07/05/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	CRA RELIABLE TIRE	**Lab Number:**	L2234118
Project Number:	20-763	**Report Date:**	07/05/22

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	CRA RELIABLE TIRE	**Lab Number:**	L2234118
Project Number:	20-763	**Report Date:**	07/05/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 3 4

Date Rec'd in Lab: 6/10/22

ALPHA Job #: L2230548

Client Information
Client: TTI Environmental
Address: 1253 N. Church St. Moorestown, NJ
Phone: 609-973-4451
Fax: 856-840-8815
Email: alech@ttienv.com

Project Information
Project Name: CAA Reliable Tire
Project Location: Camden, NJ
Project #: 20-763
(Use Project name as Project #) ☐
Project Manager: Alex Hallowell
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☒ NJ Full (Reduced)
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☒ SRS Residential/Non Residential
☒ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☒ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☒ Same as Client Info
PO # TBD

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.
Hg: Mercury

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Hold	Hg	SPLP	Benzo(a)Pyrene	Lead	Total Bottle	Sample Specific Comments
30548-01	ADC 2-2-E2@11.5-12	6/9/22	0917	SS	AH	X						
-02	ADC 2-2E1-S@ 11.5-12		0927				X					
-03	ADC 2-2E1-D@ 11.5-12		0925				X					
-04	ADC 2-2-S2@ 11.5-12		0932			X						
-05	ADC 2-2-S1@ 11.5-12		0939				X					
-06	ADC 2-2-W2@ 11.5-12		0946			X						
-07	ADC 2-2-W1@ 11.5-12		0952				X					
34118-01 -08	ADC 9-1-W2@0-0.5		1005			X		X				
-09	ADC 9-1-W1@0-0.5		1007				X	X				
-10	ADC 9-1-N2@0-0.5		1010			X						

Container Type: GA GA GA
Preservative:

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6/9/22 1441		6/9/22 1441
	6/9/22 1630		6/9/22 1630
	6/9/22 2130		6/9/22 2130
	6/9/22		6/10/22 0048
	6/10/22 0255		6/10/22 0255

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

L2234118 SH 6/28/22

ALPHA — NEW JERSEY CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Westborough, MA 01581, 8 Walkup Dr., TEL: 508-898-9220, FAX: 508-898-9193
Mansfield, MA 02048, 320 Forbes Blvd, TEL: 508-822-9300, FAX: 508-822-3288

Page 2 of 4

Date Rec'd in Lab: 6/10/22

ALPHA Job #: L2230548

Project Information
Project Name: CRA Reliable Tire
Project Location: Camden, NJ
Project #: 20-763
(Use Project name as Project #) ☐
Project Manager: Alec Halbrunel
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Client Information
Client: TTI Environmental
Address: 1253 N Church St. Moorestown, NJ
Phone: 609-923-4451
Fax: 856-840-8815
Email: alech@ttienv.com

Deliverables
☒ NJ Full / (Reduced)
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☒ SRS Residential/Non Residential
☒ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☒ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☒ Same as Client Info
PO #: TBD

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED: ☐ Category 1 ☐ Category 2

For VOC, selection is REQUIRED: ☐ 1,4-Dioxane ☐ 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration: ☐ Done ☐ Lab to do
Preservation: ☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Hold	Hg, SPLP	Benzo(a)Pyrene	Lead					Sample Specific Comments	Total Bottles
~~30548~~ -11	ADC9-1-N1@0-0.5	6/9/22	1014	SS	AH		X	X							
-12	ADC9-1-E1@0-0.5	↓	1019	↓	↓	X									
-13	ADC9-1-E1-S@0-0.5		1022				X	X							
-14	ADC9-1-E1-D@4.5-5.0		1023				X	X							
-15	ADC9-1-S1@0-0.5		1026				X	X							
34118-02 -16	ADC9-1-S2@0-0.5		1030			X		X							
-03 ~~-17~~ AH	~~AO~~ TP-6-W2@3-3.5		1043			X			X						
-18	TP-6-W1@3-3.5		1046						X						
-04 -19	TP-6-S2@3-3.5		1050			X			X						
-20	TP-6-S1@3-3.5	↓	1054	↓	↓				X						

Container Type		6A	6A	6A
Preservative				

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, K/E = Zn Ac/NaOH, O = Other

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	6/9/22 1448	[signature]	6/9/22 1441
[signature]	6/9/22 1630	[signature]	6/9/22 [illegible]
[signature]	6/9/22 2130	[signature]	6/9/22 2130
[signature]	6/9/22	[signature]	6/10/22 [illegible]
[signature]	6/10/22 0255	[signature]	6/10/22 0255

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

L2234118 SH 6/28/22

NEW JERSEY CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 3 of 34

Date Rec'd in Lab: 6/10/22

ALPHA Job #: L2230548

Client Information
Client: TTI Environmental
Address: 1253 N. Church St. Moorestown, NJ
Phone: 609-923-4451
Fax: 856-840-3815
Email: dtech@ttienv.com

Project Information
Project Name: CRA Reliable Tire
Project Location: Camden, NJ
Project # 20-763
(Use Project name as Project #) ☐
Project Manager: Alec Halbruner
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☒ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☒ SRS Residential/Non Residential
☒ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☒ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☒ Same as Client Info
PO # TBD

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:

Please specify Metals or TAL.
Hg: Mercury

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Hold	Hg, SPLP	Benzo (a) pyrene	Lead	Total Bottle	Sample Specific Comments
30548-21	TP-6-E1-S@3-3.5	6/9/22	1057	SS	AH				X		
-22	TP-6-E1-D@4.5-5.0	|	1059	|	|				X		
-23	TP-6-E2@3-3.5	|	1105	|	|	X					
-24	TP-6-N1@3-3.5	|	1115	|	|				X		
34118-05 -25	TP-6-N2@3-3.5	|	1119	|	|	X			X		
-26	TP-4-W2@0.5-1	|	1132	|	|	X					
-27	TP-4-W1@0.5-1	|	1135	|	|			X			
-28	TP-4-S1@0.5-1	|	1138	|	|			X			
-29	TP-4-S2@0.5-1	|	1142	|	|	X					
-30	TP-4-E1-S@0.5-1	↓		↓	↓				X		

Container Type: | | GA | GA | GA | | | | |
Preservative: | | | | | | | | |

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6/9/22 1448		6/9/22 1448
	6/9/22 1630		6-9-22 1830
	6/9/22 2130		6/9/22 2130
	6/9/22		6/10/22 0049
	6/10/22 0255		6/10/22 0255

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2300649
Client:	TTI Environmental, Inc. 1253 North Church Street Moorestown, NJ 08057
ATTN:	Alec Halbruner
Phone:	(856) 840-8800
Project Name:	CAMDEN REDEVELOPMENT AGENCY
Project Number:	22-1369
Report Date:	01/26/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: CAMDEN REDEVELOPMENT AGENCY
Project Number: 22-1369

Lab Number: L2300649
Report Date: 01/26/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2300649-01	AOC9-1R@ 3-3.5	SOIL	CAMDEN, NJ	01/05/23 09:27	01/05/23
L2300649-02	AOC9-1R@ 4-4.5	SOIL	CAMDEN, NJ	01/05/23 09:29	01/05/23
L2300649-03	AOC9-1R@ 5-5.5	SOIL	CAMDEN, NJ	01/05/23 09:31	01/05/23
L2300649-04	AOC9-1R@ 8-8.5	SOIL	CAMDEN, NJ	01/05/23 09:33	01/05/23
L2300649-05	AOC9-1R@ 10-10.5	SOIL	CAMDEN, NJ	01/05/23 09:34	01/05/23
L2300649-06	AOC9-1R@ 11.5-12	SOIL	CAMDEN, NJ	01/05/23 09:35	01/05/23
L2300649-07	AOC9-1R- N1	SOIL	CAMDEN, NJ	01/05/23 09:55	01/05/23
L2300649-08	AOC9-1R- N2	SOIL	CAMDEN, NJ	01/05/23 09:50	01/05/23
L2300649-09	AOC9-1R- N3	SOIL	CAMDEN, NJ	01/05/23 09:43	01/05/23
L2300649-10	AOC9-1R- E1	SOIL	CAMDEN, NJ	01/05/23 10:08	01/05/23
L2300649-11	AOC9-1R- E2	SOIL	CAMDEN, NJ	01/05/23 10:05	01/05/23
L2300649-12	AOC9-1R- E3	SOIL	CAMDEN, NJ	01/05/23 10:00	01/05/23
L2300649-13	AOC9-1R- S1	SOIL	CAMDEN, NJ	01/05/23 10:17	01/05/23
L2300649-14	AOC9-1R- S2	SOIL	CAMDEN, NJ	01/05/23 10:15	01/05/23
L2300649-15	AOC9-1R- S3	SOIL	CAMDEN, NJ	01/05/23 10:10	01/05/23
L2300649-16	AOC9-1R- W1	SOIL	CAMDEN, NJ	01/05/23 09:39	01/05/23
L2300649-17	AOC9-1R- W2	SOIL	CAMDEN, NJ	01/05/23 09:36	01/05/23
L2300649-18	AOC9-1R- W3	SOIL	CAMDEN, NJ	01/05/23 09:15	01/05/23
L2300649-19	AOC9-1R- W4	SOIL	CAMDEN, NJ	01/05/23 09:10	01/05/23
L2300649-20	AOC9-1R- W5	SOIL	CAMDEN, NJ	01/05/23 09:03	01/05/23

Project Name: CAMDEN REDEVELOPMENT AGENCY
Project Number: 22-1369
Lab Number: L2300649
Report Date: 01/26/23

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	YES
5b	Were these reporting limits met?	YES
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name:	CAMDEN REDEVELOPMENT AGENCY	**Lab Number:**	L2300649
Project Number:	22-1369	**Report Date:**	01/26/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	CAMDEN REDEVELOPMENT AGENCY	**Lab Number:**	L2300649
Project Number:	22-1369	**Report Date:**	01/26/23

Case Narrative (continued)

Report Submission

January 26, 2023: This final report includes the results of all requested analyses.

January 23, 2023: This preliminary report includes the results of the SPLP Mercury analysis performed on L2300649-01, -13 and -16.

January 12, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Semivolatile Organics

In reference to question 4:

WG1730842-2/-3: One or more compounds failed to meet the DKQP recovery and/or RPD limits. Difficult analytes may recover at less than 10% recovery, where applicable. Please refer to the QC section of the report for specific details.

Total Mercury

In reference to question 4:

The WG1732521-4 Laboratory Duplicate RPD for mercury (22%), performed on L2300649-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Caitlin Walukevich

Title: Technical Director/Representative Date: 01/26/23

ORGANICS

SEMIVOLATILES

Project Name: CAMDEN REDEVELOPMENT AGENCY
Lab Number: L2300649
Project Number: 22-1369
Report Date: 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-02
Client ID: AOC9-1R@ 4-4.5
Sample Location: CAMDEN, NJ

Date Collected: 01/05/23 09:29
Date Received: 01/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 01/09/23 11:36
Analyst: MG
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 01/06/23 17:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		mg/kg	0.069	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	68		30-130
2-Fluorobiphenyl	74		30-130
4-Terphenyl-d14	61		30-130

Project Name: CAMDEN REDEVELOPMENT AGENCY
Lab Number: L2300649
Project Number: 22-1369
Report Date: 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-18
Client ID: AOC9-1R- W3
Sample Location: CAMDEN, NJ

Date Collected: 01/05/23 09:15
Date Received: 01/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 01/12/23 04:56
Analyst: IM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 01/06/23 17:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	0.16		mg/kg	0.13	0.044	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	52		30-130
2-Fluorobiphenyl	62		30-130
4-Terphenyl-d14	53		30-130

Project Name: CAMDEN REDEVELOPMENT AGENCY
Lab Number: L2300649
Project Number: 22-1369
Report Date: 01/26/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 01/06/23 23:18
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 01/06/23 17:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,18 Batch: WG1730842-1					
Benzo(a)anthracene	ND		mg/kg	0.054	0.018
Benzo(a)pyrene	ND		mg/kg	0.12	0.040

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		30-130
Phenol-d6	60		30-130
Nitrobenzene-d5	67		30-130
2-Fluorobiphenyl	59		30-130
2,4,6-Tribromophenol	73		30-130
4-Terphenyl-d14	65		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMDEN REDEVELOPMENT AGENCY
Project Number: 22-1369

Lab Number: L2300649
Report Date: 01/26/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,18 Batch: WG1730842-2 WG1730842-3								
Benzo(a)anthracene	**64**	Q	**67**	Q	70-130	5		30
Benzo(a)pyrene	**62**	Q	**65**	Q	70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		69		30-130
Phenol-d6	61		65		30-130
Nitrobenzene-d5	66		72		30-130
2-Fluorobiphenyl	59		63		30-130
2,4,6-Tribromophenol	77		83		30-130
4-Terphenyl-d14	66		69		30-130

METALS

Project Name: CAMDEN REDEVELOPMENT AGENCY **Lab Number:** L2300649

Project Number: 22-1369 **Report Date:** 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-01 Date Collected: 01/05/23 09:27

Client ID: AOC9-1R@ 3-3.5 Date Received: 01/05/23

Sample Location: CAMDEN, NJ Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 01/17/23 00:08

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Mercury, SPLP	0.00010	J	mg/l	0.00020	0.00009	1	01/18/23 09:29	01/19/23 21:48	EPA 7470A	1,7470A	DMB

Project Name: CAMDEN REDEVELOPMENT AGENCY
Lab Number: L2300649
Project Number: 22-1369
Report Date: 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-01
Client ID: AOC9-1R@ 3-3.5
Sample Location: CAMDEN, NJ
Date Collected: 01/05/23 09:27
Date Received: 01/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Mercury, Total	0.119		mg/kg	0.072	0.047	1	01/12/23 09:55	01/12/23 12:33	EPA 7471B	1,7471B	DMB

Project Name: CAMDEN REDEVELOPMENT AGENCY
Lab Number: L2300649
Project Number: 22-1369
Report Date: 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-07
Client ID: AOC9-1R- N1
Sample Location: CAMDEN, NJ
Date Collected: 01/05/23 09:55
Date Received: 01/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Mercury, Total	0.051	J	mg/kg	0.074	0.048	1	01/12/23 09:55	01/12/23 12:53	EPA 7471B	1,7471B	DMB

Project Name: CAMDEN REDEVELOPMENT AGENCY
Lab Number: L2300649
Project Number: 22-1369
Report Date: 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-10
Client ID: AOC9-1R- E1
Sample Location: CAMDEN, NJ

Date Collected: 01/05/23 10:08
Date Received: 01/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Mercury, Total	ND		mg/kg	0.071	0.046	1	01/12/23 09:55	01/12/23 12:56	EPA 7471B	1,7471B	DMB

Project Name: CAMDEN REDEVELOPMENT AGENCY **Lab Number:** L2300649

Project Number: 22-1369 **Report Date:** 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-13 Date Collected: 01/05/23 10:17

Client ID: AOC9-1R- S1 Date Received: 01/05/23

Sample Location: CAMDEN, NJ Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 01/17/23 00:08

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Mercury, SPLP	0.00016	J	mg/l	0.00020	0.00009	1	01/18/23 09:29	01/19/23 21:58	EPA 7470A	1,7470A	DMB

Project Name: CAMDEN REDEVELOPMENT AGENCY
Lab Number: L2300649
Project Number: 22-1369
Report Date: 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-13
Client ID: AOC9-1R- S1
Sample Location: CAMDEN, NJ
Date Collected: 01/05/23 10:17
Date Received: 01/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Mercury, Total	0.293		mg/kg	0.073	0.048	1	01/12/23 09:55	01/12/23 12:59	EPA 7471B	1,7471B	DMB

Project Name: CAMDEN REDEVELOPMENT AGENCY
Lab Number: L2300649
Project Number: 22-1369
Report Date: 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-16
Client ID: AOC9-1R- W1
Sample Location: CAMDEN, NJ
Date Collected: 01/05/23 09:39
Date Received: 01/05/23
Field Prep: Not Specified
Sample Depth:
TCLP/SPLP Ext. Date: 01/17/23 00:08
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Mercury, SPLP	0.00013	J	mg/l	0.00020	0.00009	1	01/18/23 09:29	01/19/23 22:01	EPA 7470A	1,7470A	DMB

Project Name: CAMDEN REDEVELOPMENT AGENCY **Lab Number:** L2300649

Project Number: 22-1369 **Report Date:** 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-16 Date Collected: 01/05/23 09:39

Client ID: AOC9-1R- W1 Date Received: 01/05/23

Sample Location: CAMDEN, NJ Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Mercury, Total	0.067	J	mg/kg	0.069	0.045	1	01/12/23 09:55	01/12/23 13:03	EPA 7471B	1,7471B	DMB

Project Name: CAMDEN REDEVELOPMENT AGENCY **Lab Number:** L2300649

Project Number: 22-1369 **Report Date:** 01/26/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,07,10,13,16 Batch: WG1732521-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	01/12/23 09:55	01/12/23 12:26	1,7471B	DMB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab for sample(s): 01,13,16 Batch: WG1734586-1										
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	01/18/23 09:29	01/19/23 21:41	1,7470A	DMB

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 01/17/23 00:08

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMDEN REDEVELOPMENT AGENCY

Project Number: 22-1369

Lab Number: L2300649

Report Date: 01/26/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,07,10,13,16 Batch: WG1732521-2 SRM Lot Number: D116-540								
Mercury, Total	91		-		58-142	-		
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 01,13,16 Batch: WG1734586-2								
Mercury, SPLP	96		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: CAMDEN REDEVELOPMENT AGENCY
Project Number: 22-1369

Lab Number: L2300649
Report Date: 01/26/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,07,10,13,16 QC Batch ID: WG1732521-3 QC Sample: L2300649-01 Client ID: AOC9-1R@ 3-3.5												
Mercury, Total	0.119	1.45	1.64	105		-	-		80-120	-		20
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 01,13,16 QC Batch ID: WG1734586-3 QC Sample: L2300649-01 Client ID: AOC9-1R@ 3-3.5												
Mercury, SPLP	0.00010J	0.005	0.00479	96		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CAMDEN REDEVELOPMENT AGENCY

Project Number: 22-1369

Lab Number: L2300649

Report Date: 01/26/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,07,10,13,16 QC Batch ID: WG1732521-4 QC Sample: L2300649-01 Client ID: AOC9-1R@ 3-3.5						
Mercury, Total	0.119	0.149	mg/kg	**22**	Q	20
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 01,13,16 QC Batch ID: WG1734586-4 QC Sample: L2300649-01 Client ID: AOC9-1R@ 3-3.5						
Mercury, SPLP	0.00010J	0.00023	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: CAMDEN REDEVELOPMENT AGENCY
Project Number: 22-1369
Lab Number: L2300649
Report Date: 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-01
Client ID: AOC9-1R@ 3-3.5
Sample Location: CAMDEN, NJ
Date Collected: 01/05/23 09:27
Date Received: 01/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Extraction Data by EPA 1312 - Westborough Lab										
Sample Weight	0.100		kg	-	NA	1	-	01/17/23 16:08	1,1312	CDA
Leachate Volume	2.00		l	-	NA	1	-	01/17/23 16:08	1,1312	CDA
pH, Extraction Post-Filtration	9.86		SU	-	NA	1	-	01/17/23 16:08	1,1312	CDA
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	01/08/23 16:08	121,2540G	MF

Project Name: CAMDEN REDEVELOPMENT AGENCY
Project Number: 22-1369
Lab Number: L2300649
Report Date: 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-02
Client ID: AOC9-1R@ 4-4.5
Sample Location: CAMDEN, NJ
Date Collected: 01/05/23 09:29
Date Received: 01/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.3		%	0.100	NA	1	-	01/08/23 16:08	121,2540G	MF

Project Name: CAMDEN REDEVELOPMENT AGENCY
Project Number: 22-1369
Lab Number: L2300649
Report Date: 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-07
Client ID: AOC9-1R- N1
Sample Location: CAMDEN, NJ
Date Collected: 01/05/23 09:55
Date Received: 01/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	01/08/23 16:08	121,2540G	MF

Project Name: CAMDEN REDEVELOPMENT AGENCY
Project Number: 22-1369
Lab Number: L2300649
Report Date: 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-10
Client ID: AOC9-1R- E1
Sample Location: CAMDEN, NJ
Date Collected: 01/05/23 10:08
Date Received: 01/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	01/08/23 16:08	121,2540G	MF

Project Name: CAMDEN REDEVELOPMENT AGENCY
Project Number: 22-1369
Lab Number: L2300649
Report Date: 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-13
Client ID: AOC9-1R- S1
Sample Location: CAMDEN, NJ
Date Collected: 01/05/23 10:17
Date Received: 01/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Extraction Data by EPA 1312 - Westborough Lab										
Sample Weight	0.100		kg	-	NA	1	-	01/17/23 16:08	1,1312	CDA
Leachate Volume	2.00		l	-	NA	1	-	01/17/23 16:08	1,1312	CDA
pH, Extraction Post-Filtration	7.50		SU	-	NA	1	-	01/17/23 16:08	1,1312	CDA
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	01/08/23 16:08	121,2540G	MF

Project Name: CAMDEN REDEVELOPMENT AGENCY
Project Number: 22-1369
Lab Number: L2300649
Report Date: 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-16
Client ID: AOC9-1R- W1
Sample Location: CAMDEN, NJ
Sample Depth:
Matrix: Soil

Date Collected: 01/05/23 09:39
Date Received: 01/05/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Extraction Data by EPA 1312 - Westborough Lab										
Sample Weight	0.100		kg	-	NA	1	-	01/17/23 16:08	1,1312	CDA
Leachate Volume	2.00		l	-	NA	1	-	01/17/23 16:08	1,1312	CDA
pH, Extraction Post-Filtration	9.49		SU	-	NA	1	-	01/17/23 16:08	1,1312	CDA
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	01/08/23 16:08	121,2540G	MF

Project Name: CAMDEN REDEVELOPMENT AGENCY
Project Number: 22-1369
Lab Number: L2300649
Report Date: 01/26/23

SAMPLE RESULTS

Lab ID: L2300649-18
Client ID: AOC9-1R- W3
Sample Location: CAMDEN, NJ
Date Collected: 01/05/23 09:15
Date Received: 01/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	01/08/23 16:08	121,2540G	MF

Project Name: CAMDEN REDEVELOPMENT AGENCY **Lab Number:** L2300649

Project Number: 22-1369 **Report Date:** 01/26/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Extraction Data by EPA 1312 - Westborough Lab for sample(s): 01,13,16 Batch: WG1734479-1										
Sample Weight	ND		kg	-	NA	1	-	01/17/23 16:08	1,1312	CDA
Leachate Volume	2.00		l	-	NA	1	-	01/17/23 16:08	1,1312	CDA
pH, Extraction Post-Filtration	7.14		SU	-	NA	1	-	01/17/23 16:08	1,1312	CDA

Lab Duplicate Analysis

Batch Quality Control

Project Name: CAMDEN REDEVELOPMENT AGENCY

Project Number: 22-1369

Lab Number: L2300649

Report Date: 01/26/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02,07,10,13,16,18 QC Batch ID: WG1731195-1 QC Sample: L2300649-01 Client ID: AOC9-1R@ 3-3.5						
Solids, Total	88.1	88.2	%	0		20

Project Name: CAMDEN REDEVELOPMENT AGENCY
Project Number: 22-1369

Lab Number: L2300649
Report Date: 01/26/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2300649-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HG-T(28)
L2300649-01B	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2300649-01X	Plastic 250ml HNO3 preserved Extracts	A	NA		2.6	Y	Absent		HG-P(28)
L2300649-01X9	Tumble Vessel	A	NA		2.6	Y	Absent		-
L2300649-02A	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		TS(7),NJ-PAH(14)
L2300649-03A	Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L2300649-03B	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2300649-04A	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14)
L2300649-05A	Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L2300649-05B	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2300649-06A	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14)
L2300649-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HG-T(28)
L2300649-07B	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2300649-08A	Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L2300649-08B	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2300649-09A	Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L2300649-09B	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2300649-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HG-T(28)
L2300649-10B	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2300649-11A	Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L2300649-11B	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2300649-12A	Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L2300649-12B	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()

*Values in parentheses indicate holding time in days

Project Name: CAMDEN REDEVELOPMENT AGENCY
Project Number: 22-1369

Lab Number: L2300649
Report Date: 01/26/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2300649-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HG-T(28)
L2300649-13B	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2300649-13X	Plastic 250ml HNO3 preserved Extracts	A	NA		2.6	Y	Absent		HG-P(28)
L2300649-13X9	Tumble Vessel	A	NA		2.6	Y	Absent		-
L2300649-14A	Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L2300649-14B	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2300649-15A	Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L2300649-15B	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2300649-16A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HG-T(28)
L2300649-16B	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2300649-16X	Plastic 250ml HNO3 preserved Extracts	A	NA		2.6	Y	Absent		HG-P(28)
L2300649-16X9	Tumble Vessel	A	NA		2.6	Y	Absent		-
L2300649-17A	Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L2300649-17B	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2300649-18A	Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L2300649-18B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),TS(7),NJ-PAH(14)
L2300649-18C	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),TS(7),NJ-PAH(14)
L2300649-19A	Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L2300649-19B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM(),HOLD-8270(14)
L2300649-19C	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM(),HOLD-8270(14)
L2300649-20A	Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L2300649-20B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM(),HOLD-8270(14)
L2300649-20C	Glass 250ml/8oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM(),HOLD-8270(14)

*Values in parentheses indicate holding time in days

Project Name:	CAMDEN REDEVELOPMENT AGENCY	**Lab Number:**	L2300649
Project Number:	22-1369	**Report Date:**	01/26/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	CAMDEN REDEVELOPMENT AGENCY	**Lab Number:**	L2300649
Project Number:	22-1369	**Report Date:**	01/26/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	CAMDEN REDEVELOPMENT AGENCY	**Lab Number:**	L2300649
Project Number:	22-1369	**Report Date:**	01/26/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	CAMDEN REDEVELOPMENT AGENCY	**Lab Number:**	L2300649
Project Number:	22-1369	**Report Date:**	01/26/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 1/6/23

ALPHA Job #: L2300649

Client Information
Client: TTI Environmental
Address: 1253 N Church St. Moorestown, NJ
Phone: 609-923-4451
Fax: 856-840-8815
Email: alecha@tiienv.com

Project Information
Project Name: Camden Redevelopment Agency
Project Location: Camden, NJ
Project #: 22-1369
(Use Project name as Project #)
Project Manager: Alec Halbruner
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved):
Due Date:
# of Days:

Deliverables
X NJ Full / Reduced
EQuIS (1 File)
EQuIS (4 File)
Other

Regulatory Requirement
X SRS Residential/Non Residential
X SRS Impact to Groundwater
NJ Ground Water Quality Standards
X NJ IGW SPLP Leachate Criteria
Other

Billing Information
X Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes
Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED: Category 1, Category 2

For VOC, selection is REQUIRED: 1,4-Dioxane, 8011

Other project specific requirements/comments:
BaA: Benzo(a)Anthracene BaP: Benzo(a)pyrene

Please specify Metals or TAL.
*all samples collected 1/5/2023
*hold all mercury samples for SPLP Mercury

ANALYSIS

Sample Filtration
Done
Lab to do
Preservation
Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Mercury	Mercury (hold)	BaP	BaP (hold)	BaA	BaA (hold)	SPLP Mercury (hold)	SPLP Extraction	Sample Specific Comments
00649-01	AOC9-1R@3-3.5	1/5/23	0927	SS	AH	X						X	X	
-02	AOC9-1R@4-4.5	1/5/23	0929	SS	AH					X				
-03	AOC9-1R@5-5.5	1/5/23	0931	SS	AH		X					X	X	
-04	AOC9-1R@8-8.5	1/5/23	0933	SS	AH						X			
-05	AOC9-1R@10-10.5	1/5/23	0934	SS	AH		X					X	X	
-06	AOC9-1R@11.5-12	1/5/23	0935	SS	AH						X			
-07	AOC9-1R-N1	1/5/23	0955	SS	AH	X						X	X	
-08	AOC9-1R-N2	1/5/23	0950	SS	AH		X					X	X	
-09	AOC9-1R-N3	1/5/23	0943	SS	AH		X					X	X	
-10	AOC9-1R-E1	1/5/23	1008	SS	AH	X						X	X	
	Container Type					A	A	A	A	A	A	A	A	
	Preservative					A	A	A	A	A	A	A	A	

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, K/E = Zn Ac/NaOH, O = Other

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	1/5/23 1453	D. Robinson AAL	1/5/23 1453
D. Robinson AAL	1/5/23 1800		1/5/23 1800
	1/5/23 2100		1.5.23 2100
	1.5.23	AAL	1/5/23 2340
AAL	1/6/23 0125		1/6/23 0125

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 2 of 2

Date Rec'd in Lab: 1/6/23

ALPHA Job #: L2300649

Client Information
Client: TTI Environmental
Address: 1253 N. Church St. Moorestown, NJ
Phone: 609-923-4451
Fax: 856-840-8815
Email: alech@ttienv.com

Project Information
Project Name: Camden Redevelopment Agency
Project Location: Camden, NJ
Project #: 22-1369
(Use Project name as Project #)
Project Manager: Alec Halbrimer
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved): ☐
Due Date:
# of Days:

Deliverables
☐ NJ Full ☐ Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☒ SRS Residential/Non Residential
☒ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☒ NJ IGW SPLP Leachate Criteria
☐ Other

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments: * Hold all Mercury samples for SPLP Mercury
BaA: Benzo(a)anthracene
Please specify Metals or TAL. ~~BaP~~
BaP: Benzo(a)pyrene

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Mercury	Mercury (Hold)	BaP	BaP (Hold)	BaA	BaA (Hold)	SPLP Mercury (Hold)	SPLP Extraction	Sample Specific Comments
00649-11	AOC 9-1R-E2	1/5/23	1005	SS	AH		X					X	X	
-12	AOC 9-1R-E3	1/5/23	1000	SS	AH		X					X	X	
-13	AOC 9-1R-~~S1~~ S1	1/5/23	1017	SS	AH	X						X	X	
-14	AOC 9-1R-S2	1/5/23	1015	SS	AH		X					X	X	
-15	AOC 9-1R-S3	1/5/23	1010	SS	AH		X					X	X	
-16	AOC 9-1R-W1	1/5/23	0939	SS	AH	X						X	X	
-17	AOC 9-1R-W2	1/5/23	0936	SS	AH		X					X	X	
-18	AOC 9-1R-W3	1/5/23	0915	SS	AH		X	X				X	X	
-19	AOC 9-1R-W4	1/5/23	0910	SS	AH		X		X			X	X	
-20	AOC 9-1R-W5	1/5/23	0903	SS	AH		X		X			X	X	
	Container Type					A	A	A	A	A	A	A	A	
	Preservative					A	A	A	A	A	A	A	A	

Total Bottle

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	1/5/23 1453	D. Robinson AAL	1/5/23 1453
D. Robinson AAL	1/5/23 1800		1/5/23 1800
	1/5/23 2100		1.5.23 2100
	1.5.23	SGAAL	1/5/23 2340
SGAAL	1/6/23 0125		1/6/23 0125

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)